SUNDAY, MARCH 29

Across Societies – Experimental Biology

541. TEACHING, LEARNING AND TESTING IN THE BIOLOGICAL AND BIOMEDICAL SCIENCES I

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Education

Presentation time: 1:30 PM–3:30 PM

Recognizing that techniques and issues related to teaching and the use of computers in research and teaching crosses all biomedical disciplines, EB 2015 has combined education posters from all participating societies. Please note: Posters are on display Sunday through Tuesday. Presentation time is for Sunday only.

T4 541.1 A Comparison of Team-Based Learning Formats: Can We Minimize Stress While Maximizing Results C.J. Miller, J.C. Falcone and M.J. Metz. Univ. of Louisville.
T5 541.2 Using Role-Playing Simulations to Teach Endocrine and Respiratory Physiology in Large Classes K. Hull. Bishop’s Univ., Canada.
T10 541.7 Service Learning through Educational Outreach Enhances Student Learning and Engagement E. Keen-Rhinehart. Susquehanna Univ.
T11 541.8 Implementing the Use of Service-Learning in an Undergraduate Human Physiology Course at Elon University J.K. Uno. ELon Univ.
T12 541.9 Community Event Promotes Active Engagement in Science K.M. Brooks, Z.W. Paquin and K.M.S. Johnson. Beloit Col., WI.
T13 541.10 Integrating Mathematics Principles in Cell Biology D. Lin, D. Mims and L. West. Lee Univ., TN.

T18 541.15 Educational Outreach as a Simple, Yet Effective, Service Learning Opportunity for Exercise Science Undergraduate and Graduate Students E.K. Merritt and B. Merritt. Appalachian State Univ. and Mabel Sch., Zionville, NC.
T19 541.16 Having PhUn in Australia while on Summer Vacation P.A. Halpin. Univ. of New Hampshire.
T21 541.18 Combining Blood Glucose Testing with Analysis of a Classic Paper in an Endocrine Physiology Lab Activity K.L. Walton. Missouri Western State Univ.
T23 541.20 Collaborative Teaching Strategies Lead to Retention of Skills in Acid-Base Physiology: A 2-Year Follow-Up Study R.M. Berg, J.P. Hartmann and L.N. Toksvang. Rigshospitalet, Copenhagen.
T24 541.21 Worming a Model Organism into Capstone Research Projects T. Crum and J. Sarathy. Benedictine Univ.
T26 541.23 Implementing Clinical Scenarios in an Undergraduate Physiology Course to Enhance Critical Thinking across Multiple Body Systems J.H. Shaw. Oklahoma State Univ.
Anatomy

542. ANATOMY

Poster

Sun. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:30 PM–2:15 PM


D202 542.2 Changes of Chemical Elements in the Special Embalming Fluid after Immersed in Human Fresh Amputated Limb in Milan; Univ. of Pavia and David Geffen Sch. of Med.- UCLA. A. Icaro Cornaglia and G.S. Keller.

T30 541.27 Northwest Biosciences Network: Implementation of Vision and Change in Introductory Biology S. Stavrianeas, E. Baumgartner, J. Brown, J. Duncan, C. Gaiser, L. Kayes, S. Kiser, A. Kruchten and W. Shriner. Willamette Univ.; Western Oregon Univ.; Univ. of Portland; Linfield Col.; Oregon State Univ.; Lane Community Col. and Mt. Hood Community Col., OR.

T31 541.28 Transformation of the Introductory Biology Experience for All Students: Progress of the Northwest Biosciences Consortium A. Kruchten, E. Baumgartner, J. Brown, J. Duncan, C. Gaiser, L. Kayes, S. Kiser, W. Shriner and S. Stavrianeas. Linfield Col.; Western Oregon Univ.; Univ. of Portland; Willamette Univ.; Oregon State Univ.; Lane Community Col. and Mt. Hood Community Col., OR.


T38 541.35 The Use of Independent-Study Modules to Review Areas of Misconception in Physiology R.E. Laudadio. Unaffil.

T39 541.36 Program Assessment in a Large Undergraduate Physiology Curriculum C.I. Stanescu, E.J. Henriksen and N.A. Delamere. Univ. of Arizona.

T40 541.37 Student Perception of Achievement Influences Student Evaluation of Teaching J.T. Selsby and J.A. Sterle. Iowa State Univ.
SUNDAY

544. ANATOMY: GASTROINTESTINAL

Poster

Sun. 7:30 AM—Boston Convention & Exhibition Center, Exhibit Halls A & B

Presentation time: 12:30 PM—2:15 PM


D213 544.4 Codistribution of Collagens V and VI with Collagens I and III in Hepatic Fibrosis of Elderly Cadavers K.M. Mak. Icahn Sch. of Med. at Mount Sinai.

D214 544.5 Extracellular Matrix Proteins of Fibrous Septa in Elderly Cadaveric Livers K.M. Mak. Icahn Sch. of Med. at Mount Sinai.


545. ANATOMY: MUSCULOSKELETAL

Poster

Sun. 7:30 AM—Boston Convention & Exhibition Center, Exhibit Halls A & B

Presentation time: 12:30 PM—2:15 PM


546. ANATOMY EDUCATION: MICROANATOMY

Poster

Sun. 7:30 AM—Boston Convention & Exhibition Center, Exhibit Halls A & B

Education & Teaching

Education

Presentation time: 12:30 PM—2:15 PM


D225 546.5 Bone Geometry in Human Diabetic Neuropathy H.F. Honig, M.D. Allen, B.L. Allman and C.L. Rice. Univ. of Western Ontario.


173
547. ANATOMY EDUCATION: ETHICAL ISSUES IN BODY DONATION PROGRAMS AND PLASTINATION

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Education & Teaching

Presentation time: 12:30 PM–2:15 PM


D239 547.2 Ethical Issues in the Use of Willed Bodies in Anatomical Education T.H. Champney. Univ. of Miami Miller Sch. of Med.


D241 547.4 How a Professional Identity Is Forged in the Anatomy Lab for Medical Students C. Krebs, A. Parhar and G. Parhar. Univ. of British Columbia.


D245 547.8 The Central Role of Thiel-Embalmed Cadaveric Dissection in a New Medical School’s Integrated Systems-Based Curriculum Emphasizing Inquiry-Based Learning N.T. Boaz. Integrat. Ctrs. for Sci. and Med., Martinsville, VA.

D246 547.9 Pilot Study Evaluating Three Light-Embalming Solutions for Preparation of Cadavers for Short-Term Medical Training Courses N.A. Schmalz, L. Challyandra, T.G. Siems and E. Stark. David Geffen Sch. of Med. at UCLA and UCLA.


549. ANATOMY EDUCATION: TEACHING STRATEGIES AND METHODS

Poster
SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER,
EXHIBIT HALLS A & B

Education & Teaching
Education

Presentation time: 12:30 PM–2:15 PM

D258 549.1 Concept Mapping of Anatomy Dissection

D259 549.2 LabLink: Journaling via Multimedia in Anatomical Dissections

D260 549.3 The Constructive Approach to Teaching Anatomy through Clay Modeling: A Multi-tier Educational Value

D261 549.4 Teaching the Extraocular Muscles of the Eye: Construction and Evaluation of a Low-Cost, High-Fidelity Ophthalmotrope for Medical Trainees

D262 549.5 Subject Specific Cross Word Puzzles Were Effective Active Learning Tools

D263 549.6 Getting Active with Musculoskeletal Anatomy Instruction
W.S. Brooks. Univ. of Alabama at Birmingham.

D264 549.7 Digesting, Retaining, and Improving Cranial Nerve Study

D265 549.8 A Cadaver-Based Anatomy Course for Advanced Art Students

D266 549.9 An Untold Story: The Important Contributions of Muslim Scholars for the Discovery of Human Anatomy and the History of Evolutionary Thinking

D267 549.10 Course Remediation within a First-Year Integrated Medical Curriculum

Poster Presenters:
Upload Your Poster

Where: E-Poster Counter, Lobby D
Deadline: Wed., April 1, 3:00 PM

Uploaded posters will be available online to all registered attendees following the meeting at
www.experimentalbiology.org

550. ANATOMY EDUCATION: SOFTWARE USED IN EDUCATION

Poster
SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER,
EXHIBIT HALLS A & B

Education & Teaching
Education

Presentation time: 12:30 PM–2:15 PM

D268 550.1 Browsing Software of the Visible Korean Data Used for Teaching Sectional Anatomy
B.S. Chung and M.S. Chung. Ajou Univ. Sch. of Med., South Korea.

D269 550.2 Using a Multimedia Dissection Tool in Human Anatomy Lab

D270 550.3 Enhancing Clinical Gross Anatomy through Mobile Learning and Digital Media

D271 550.4 Comparative Study on the Effectiveness of Integrated versus Discipline-Based Digital Learning Resources

D272 550.5 Assessing Medical Student’s Perspective on Mobile Devices and Apps in an Integrated Curriculum
D. Harmon and J. Burgoon. The Ohio State Univ.

D273 550.6 An Augmented Reality Embryology Textbook

D274 550.7 iPads in the Cadaver Lab – A Complement to Dissection and Study

D275 550.8 Contextualizing Basic Science, Preclinical, and Clinical Concepts via Adaptive Multimedia Networks: ‘BlueLink,’ a Novel Approach to Interdisciplinary Education

D276 550.9 A Survey of Student Use of a Novel Software Tool for Teaching Neuroanatomy
A. Fisch. Indiana Univ. and Indiana Univ. Sch. of Med.

D277 550.10 Developing an HTML5 Neuroanatomical Learning Tool for the Computer, Tablet and Smartphone

D278 550.11 Evaluation of a Virtual 3D Learning Resource in Neuroanatomy for Undergraduate Medical Students
L. Allen, R. Eagleson and S. de Ribaupeyre. Univ. of Western Ontario and Schulich Sch. of Med. and Dent., Ontario.
D279 550.12 Production of an Anatomical Video of the Middle Cranial Fossa and Its Conversion into an Interactive Teaching Module P. Oliver, LSU Hlth. Sci. Ctr., New Orleans.

D280 550.13 Development of an Online Tool for Periodontal Disease Education S. Johnston, A. Al-Osman, L. Kalman, M.J. Johnson, N. Tabbara and K.A. Galli, Western Univ., Canada.


551. ANATOMY EDUCATION: STUDENT CENTERED LEARNING

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Education & Teaching

Education

Presentation time: 12:30 PM–2:15 PM


D288 551.4 Assessing Organizational Changes to a First Year Medical Gross Anatomy Dissection Course R.D. Darling, D.A. Morton and J. Colbert-Getz. Univ. of Utah Sch. of Med.

D289 551.5 Two Years of Experience with Near-Peer Anatomists in a New Medical School’S Setting A. Barash, N. Dickman, S. Reis and D. Karasik. Bar-Ilan Univ., Israel.

D290 551.6 Continued Development of the Role of Teaching Assistants in Mount Sinai’s “Structures” Course P.P. Maffucci, B.M. Laitman and J.T. Laitman. Icahn Sch. of Med. at Mount Sinai.

D291 551.7 Research Design for the Assessment of an In-Class, Student-Driven Teaching Activity D.C. Bentley, N.S. Richardson and C.L. DeZorzi, Univ. of Toronto; York Univ., Canada and Humber Col., Toronto.

D292 551.8 Developing Lifelong Learning Skills through Self-Directed Learning in the Gross Anatomy Laboratory Using Narrated Digital Slideshows S. Dunham. Indiana Univ.

D293 551.9 Different Student Perceptions of the Effectiveness of Team-Based Learning Exercises between Undergraduate Health Sciences and Medical Students A.K. Ball, T. Hawke, P. Helli and B. Wainman. McMaster Univ., Canada.


D295 551.11 Facilitating OT and PT Graduate Student Laboratory Participation, Preparedness, and Professionalism in a Compressed, Intensive Gross Anatomy Dissection Course Series R.D. Theiss. Governors State Univ., IL.

552. CARDIOVASCULAR BIOLOGY: ANATOMY AND MORPHOLOGY

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Cardiovascular

Presentation time: 12:30 PM–2:15 PM

D296 552.1 Ultrastructure and Histological Analyses of Cardiac Injury in Ciona intestinalis H.J. Evans-Anderson. Winthrop Univ., SC.

D297 552.2 A Salamander Model for Atrial Septal Defects and Cardiopulmonary Evolution Z.R. Lewis and J. Hanken. Harvard Univ.

D298 552.3 Variations in Branching of the Profunda Femoris Artery M.J. Hurley, T.M. Stevens, S.M. Estaris, K.K. Duen and M.P. Olivieri. D’Youville Col., NY.


D303 552.8 Differential Lectin Binding in Giant Danio, Goldfish, and Zebrafish Hearts P.J. Lafontant and A. May. DePauw Univ.


D305 552.10 Beating the Bends: Dolphin Thoracic Rete as a Natural Vascular Filter for Trapping Nitrogen Bubbles and Preventing Diving Decompression Sickness J.S. Reidenberg and J.T. Laitman. Icahn Sch. of Med. at Mount Sinai.
553. CARDIOVASCULAR BIOLOGY: DYSFUNCTION; DISEASE; GENETIC DISORDERS

Poster
7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Cardiovascular

Presentation time: 12:30 PM–2:15 PM


D309 553.2 Heart Specific Deletion of RNA Binding Protein Rbfox1 Sensitizes Mice to Pressure Overload-Induced Cardiac Dysfunction W. Zhu, I. Bender, A. Yellamilli and J. van Berlo. Univ. of Minnesota, Minneapolis.


D311 553.4 BMP-pSmad1/5/8 Pathway Activation in Calcific Aortic Valve Disease M.V. Gomez and K.E. Yutzey. Cincinnati Children's Hosp. and Univ. of Cincinnati.


D313 553.6 The Cardiac Potassium Channel HERG Is Blocked by Calcium at a Site Near the Outer Mouth of the Channel A. Nguyen, A. Wong, A. Oberoi, T. Le and A. Miller. Touro Univ. California.


D315 553.8 Neural Crest-Derived Valve Intersitial Cells Calcify in the Klotho-Deficient Mouse Model of Aortic Valve Disease E.E. Wirrig and K.E. Yutzey. Cincinnati Children’s Hosp. Med. Ctr.

D316 553.9 The Timing of In Utero Caffeine Exposure Influences the Morphological, Functional, and Trans-generational Effects on Adult Hearts C. Wendler, R.R. Poulsen and X. Fang. Univ. of Florida.

D317 553.10 Age-Related Changes in Endothelial Ca²⁺ Signaling Revealed by Imaging from Inside Arteries at Normal Physiological Pressures C. Wilson, C. Saunter, J.M. Girkin and J.G. McCarron. Strathclyde Univ. and Durham Univ., U.K.

554. CARDIOVASCULAR BIOLOGY: ANGIOGENESIS; LYMPHANGIOGENESIS; VASCULOGENESIS

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Cardiovascular

Presentation time: 12:30 PM–2:15 PM

D318 554.1 Fine-Tune Regulation of Cpn1 (Carboxypeptidase N1) to Control Vascular Patterning during Zebrafish Development T-Y. Wu and C-Y. Wu. Natl. Sun Yat-sen Univ., Taiwan.


D321 554.4 Endothelial and Cancer Cells Have Differing Amounts of TGF Beta Receptors Involved in Angiogenesis I. Duffy, P. Varacallo, H. Klerk and J. Hawker. Saint Leo Univ. and South Florida State Col.

555. CARDIOVASCULAR BIOLOGY: SEX AND GENDER RELATED DIFFERENCES

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Cardiovascular

Presentation time: 12:30 PM–2:15 PM


D323 555.2 Sex-Specific Calcium Handling Underlying Sex-Specific Cardiomyocyte Death in Heart Failure G. Kararigas, C.E. Molina, H. Summer, I. Baczkó, S. Góz and V. Reglitz-Zagrosek. Charité Univ. Hosp., Berlin; Hosp. de la Santa Creu i Sant Pau, Barcelona; Bayer HealthCare, Wuppertal and Univ. of Szeged, Hungary.

D324 555.3 High Intensity Interval Grip Exercise Does Not Induce Post-exercise Hypotension in Older Women D.C. Bentley and S.G. Thomas. Univ. of Toronto.

556. CARDIOVASCULAR BIOLOGY: STEM CELLS, CELL AND MOLECULAR BIOLOGY

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Cardiovascular

Presentation time: 12:30 PM–2:15 PM


D327 556.2 Scleraxis: A Novel Transcriptional Regulator of Cardiac Fibroblast Function and Phenotype R.A. Bagchi, P. Roche, R. Schweitzer and M.P. Czubryt. Univ. of Manitoba and Oregon Hlth. & Sci. Univ.

557. CARDIOVASCULAR BIOLOGY: HEART DEVELOPMENT AND GROWTH

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Cardiovascular

Presentation time: 12:30 PM–2:15 PM

D328 557.1 Inhibition of DNA Methyltransferase 1 Promotes Proliferation and Alters Gene Expression in Mouse Embryonic Cardiomyocytes X. Fang, S.A. Rivkees and C.C. Wendler. Univ. of Florida.


D331 557.4 The Role of Non-muscle Myosin II in Early Chick Morphogenesis M.S. Hoang and Q. Chu-LaGraff. Union Col., NY.

D332 557.5 Effect of Hypoxia on Gene Expression in the Chick Embryonic Heart O. Nanka, E. Krejci, J.L. Barth and D. Sedmera. First Fac. of Med., Charles Univ., Czech Republic; Med. Univ. of South Carolina and Acad. of Sci., Prague.


558. CELL BIOLOGY

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Cardiovascular

Presentation time: 12:30 PM–2:15 PM

D334 558.1 Short- and Long-Term Pro-inflammatory Mediator Responses in Prostate Adenocarcinoma Progression in TRAMP Mice after Goniothalamin Therapy V. Cagnon, L. Kido, F. Montico, D.V. Costa, J.E. Carvalho and R. Pilli. Univ. of Campinas, São Paulo.

D335 558.2 Examining O-Xylosyltransferase in Drosophila B. Palus and E.M. Selva. Univ. of Delaware.

D336 558.3 Toll-Like Receptor 10 Expression in Chicken, Cattle, Pig, Dog, and Rat Lungs Y. Balachandran, S. Knaus and B. Singh. Univ. of Saskatchewan.

D337 558.4 Effects of Bleomycin, Etoposide and Cisplatin Treatment on Leydig Cell Structure and Transcription of Steroidogenic Enzymes in Rat Testis N. Klarkaе and M. Al-Bader. Fac. of Med., Kuwait Univ.

D338 558.5 FRET Biosensors Reveal AKAP-Mediated Shaping of Subcellular PKA Activity and a Novel Mode of Ca2+/PKA Crosstalk M.B. Schott and B. Grove. Univ. of North Dakota.


D341 558.8 A New Model of Tubulobulbar Complex Budding in the Seminiferous Epithelium of the Testis K. Lyon, E. Bosseboeuf and W.A. Vogl. Univ. of British Columbia.


D343 558.10 Analysis of SM22 at Enteropathogenic Escherichia coli Induced pedestals M.D. Chua, K.J. Hipolito and J.A. Gutman. Simon Fraser Univ., Canada.


**Biochemistry and Molecular Biology**

559. **BMB EDUCATION AND PROFESSIONAL DEVELOPMENT**

**Poster**

**SUN, 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B**

**Presentation time:** 12:55 PM–2:25 PM


A2 559.2 RCN-UBE: Integrating Evolution and Homeostasis with the Core Concepts of Biochemistry and Molecular Biology J.E. Bell, A. Aguanno, P. Mertz, M. Johnson and K.M. Fox. Univ. of Richmond: Union Col., NY; Univ. of Alabama; St Mary’s Col. of Maryland and Marymount Manhattan.

A3 559.3 From Sir Walter Raleigh to the Mongoose: A Problem-Based Learning Course in Biochemistry Centered Around Curare D.R. Dries, Juniata Col., PA.

A4 559.4 Teaching Professional Skills to Chemistry and Biochemistry Majors C.A. Sarisky and W.G. Hollis, Jr. Roanoke Col., VA.


A6 559.6 A Web Repository of Research Literature Assessment Questions to Promote Student Learning and Acquisition of Scientific Reasoning and Inquiry Skills Necessary for Both the MCAT2015 and ASMBE Certification H. Jakubowski. Col. of St. Benedict, St. John’s Univ., MN.

A7 559.7 K-12 STEM Outreach: Ushering in the Next Generation of Scientists K.X. Mulligan. Vanderbilt Univ.


A9 559.9 Teen Meetings Outside the Box: Building Science Communication Skills through a Network of Graduate Level Trainees, Science Teachers, and High School Teens T.M. Evans, N. Blake, L.M. McManus and M.J. Lichtenstein. Univ. of Texas Hlth. Sci. Ctr. at San Antonio.

A10 559.10 A Practical Approach to Career Advising for Biochemistry and Molecular Biology Majors P.J. Kennelly, VPI & State Univ.


A14 559.14 Effective Strategies for Integrating Pre-requisite Course Concepts into Teaching Biochemistry A.T.S. Taylor and W. Novak. Wabash Col., IN.

A15 559.15 Intervertebral Canals of Cervical Spine K.A. Zhandarov. I.M. Sechenov First Moscow State Med. Univ.

A16 559.16 Flipped Classroom Activities in Introductory Chemistry and Biochemistry Courses for Nursing and Nutrition Majors E. Anderson. Univ. of Saint Joseph, CT.


A18 559.18 An Expanded Rubric for Assessing Molecular Visualization Literacy M.A. Franzen, P.A. Craig, D.M. Dean, D.R. Dries, L. Listenberger and W. Novak. Milwaukee Sch. of Engin.; Sch. of Chem. and Mat. Sci., Rochester Inst. of Technol.; Univ. of Saint Joseph; Juniata Col., PA; St Olaf Col., MN and Wabash Col., IN.


A20 559.20 Fostering Critical Thinking Skills in a Master’s-Level Course via In-Depth Analysis of Primary Literature E. Tour, C. Abdullah, J. Parris, R. Lie and A. Guzdar. UCSD.

A21 559.21 Plagiarism in Lab Reports in the age of Turnitin E. Tour, T. Bertram-Gallant, M. Picciotto and G. Bozinovic. UCSD.


A23 559.23 An Inquiry-Based Laboratory Module to Promote Understanding of the Scientific Method and Bacterial Conjugation M. Berkmen, A.C. Murthy and M.P. Brouildakis. Suffolk Univ., Boston.

A24 559.24 Inquiry-Based Cell Culture Laboratory Course for Undergraduates L.M. Carastro. Univ. of Tampa.


A26 559.26 YZGD, a Two-Domain Enzyme, as a Teaching Tool in a Biochemistry Laboratory S. O’Handley. Rochester Inst. of Technol.

A27 559.27 Utilizing Ligation Independent Cloning in an Undergraduate Biochemistry Laboratory Course J.T. Hazzard, B.L. Forte, M.T. Nelp, A.P. Young and A.C. Hausrath. Univ. of Arizona.

A28 559.28 A Recombinant DNA Lab Exercise Based on Racing Endonuclease and Ligase Enzymes R. Hill and M. Junker. Kutztown Univ.

A29 559.29 Protein Structure-Function Relationships of T4 Lysozyme in an Advanced Biochemistry Laboratory T.J. Watt and T.B. Toro. Xavier Univ. of Louisiana.

A30 559.30 Incorporating Research in the Biochemistry Laboratory T. Johann, Roanoke Col., VA.

A31 559.31 A Research-Based Laboratory Course Examining the Structure and Function of Alcohol Dehydrogenase Improves Student Confidence in Common Biochemical Techniques M.O. Huff and A.J. Krzyzak. Bellarmine Univ., KY.

A50 559.50 A Bioinformatics Course-Based Undergraduate Research Experience K.J. Saville, G. McNeil, C.D. Shaffer, W. Leung, D. Lopatto and S.C. Elgin. Albion Col., MI; York Col., NY; Washington Univ. in St. Louis and Grinnell Col., IA.

A51 559.51 Use of Social Media to Manage Out-of-Class Discussion J.T. Tansey, Otterbein Univ., OH.

560. DNA REPLICATION AND REPAIR

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:05 PM—1:35 PM

A52 560.1 Selective DNA Damage Slowed Histone Turnover R. Kellow and J. Neidigh. La Sierra Univ. and Loma Linda Univ. Sch. of Med.

A53 560.2 Two Potential Sites of Protein-Protein Interaction within the Mycobacterium tuberculosis DNA Gyrase Complex N. Wright, J. Peavey, D. Borg, R. Raab and T. Johann. Roanoke Col., VA and James Madison Univ.

A54 560.3 De Novo Thymidylate Biosynthesis and Uracil Misincorporation in DNA as Related to Neural Tube Defect and Cancer Outcomes in Mouse Models M.S. Field, X. Lan and P.J. Stover. Cornell Univ.


A58 560.7 The Q Motif Is Involved in DNA Binding in ChlR1 (DDX11) Helicase H. Ding and Y. Wu. Univ. of Saskatchewan.

A59 560.8 Swi1<sup>Wittlins</sup> Prevents Repeat Instability at Fission Yeast Telomeres E. Noguchi and M. Gadaleta. Drexel Univ. Col. of Med.


A61 560.10 Evidence-Based Design of a Fragile Site in Budding Yeast S. Fernando, M.F. Arlt, T.W. Glover and T.E. Wilson. Univ. of Michigan.


A63 560.12 Biochemical Mechanism for Recruitment of the Checkpoint Activator TOPBP1 to Stalled Replication Forks M. Michael. Univ. of So. California.

A64 560.13 Checkpoint Regulation of Replication Forks at Sites of DNA Damage D.R. Iyer and N.R. Rhind. UMass Med. Sch.


561. REPLICATION AND TRANSLESION SYNTHESIS

Poster

SUN. 7:30 AM — BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:05 PM–1:35 PM


A69 561.3 Investigating the Importance of DinB-RecA Interactions to the Regulation of DinB's Activity and the Fidelity of the DNA Damage Response T.F. Tashjian, I. Lin, T. Cafarelli and V. Godoy. Northeastern Univ. and Dana-Farber Cancer Inst.


A71 561.5 Molecular Dynamics Study of the Opening and Closing Mechanisms for DNA Polymerase I B.R. Miller, C. Parish and E.Y. Wu. Univ. of Richmond.


A73 561.7 A Molecular Dynamics Investigation of the Thermostability of DNA Polymerase E. Modeste, L. Mawby, B. Miller III, E. Wu and C. Parish. Univ. of Richmond.


A76 561.10 Characterization of the N-terminal Arms of the Polymerase Manager Protein UmuD D.A. Murison, J.N. Ollivierre, Q. Huang, D.E. Budil and P.J. Beuning. Northeastern Univ.

A77 561.11 Cell Death Mechanisms Induced by Altered Telomerase RNA Template Sequence W.M. Hernandez-Sanchez and D.J. Taylor. Case Western Reserve Univ.


Visit the Exhibits

Sunday – Tuesday

9:00 AM – 4:00 PM


A100 562.22 Differential CYCLOIDEA Expression across Developing Compound Floral Heads V. Thompson, A. Lim, B. Berger, V. Ricigliano and D. Howarth. St. John’s Univ., NY.

A101 562.23 CYCLOIDEA Gene Expression across Dipsacales in Relation to Floral Symmetry A. Lim, V. Thompson, B. Berger, V. Ricigliano and D. Howarth. St. John’s Univ., NY.

A102 562.24 An Epigenetic Switch of let-7 Targeted Oncofetal Genes C. Jnabaptiste, A. Gurtan, V. Lu, A. Bhutkar and P. Sharp. MIT.

A103 562.25 Characterizing Polyadenylated uRNAs Suggests a Potential Role for Pabpn1 A.C. Chiu, X. Wu, A. Subtelny and P. Sharp. MIT.

A104 562.26 Characterizing CDK12 and CDK13 Activity in Transcription and mRNA Biogenesis in Mouse Embryonic Stem Cells S. Dubbrey and P.A. Sharp. MIT.


A107 562.29 Nutritional Status Modulates Box C/D snoRNP Biogenesis by Regulated Subcellular Relocalization of the R2TP Complex W.A. Houry. Univ. of Toronto.


563. INTRINSICALLY DISORDERED PROTEINS, IDPS: PROTEIN FOLDING AS A REGULATORY PHENOMENON I

(Poster Session II scheduled on Monday; Poster Session III scheduled on Tuesday)

Presentation time: 12:05 PM–1:35 PM

A110 563.1 Expanding Electrochemical DNA Biosensors to Detect Ricin L. Fetter and A.J. Bonham. Metropolitan State Univ. of Denver.

A111 563.2 Electrochemical DNA Biosensors for Point-of-Care Protein and Toxin Detection A.J. Bonham. Metro. State Univ. of Denver.


A113 563.4 Association between Intrinsic Disorder and Serine/Threonine Phosphorylation in Mycobacterium tuberculosis G.P. Singh. Sch. of Biotechnol., KIIT Univ., India.


A115 563.6 Ligand-Induced Conformational Change Propagates NEMO-Mediated NF-κB Signaling R. Shaffer, S. Cote, K. Allen and A. Whitty. Boston Univ.


A120 563.11 Widespread Protein Assembly as a Stress Response E.W.J. Wallace, B. Budnik and D.A. Drummond. Univ. of Chicago and Harvard Univ.


564. PROTEIN AGGREGATION AND AMYLOID DISEASES

*Poster*

**SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B**

*Presentation time:* 12:05 PM–1:35 PM

**A124 564.1** Post-translational Modifications Promote Formation of SOD1 Oligomers with Potential Toxicity in ALS N.V. Dokholyan, R.L. Redler, E.A. Proctor, F. Ding and M. Caplow. Univ. of North Carolina at Chapel Hill.

**A125 564.2** Safe Inhibition of Amyloid Proteins Toxicity without Protein Specificity G. Bitan. UCLA.

**A126 564.3** ALS-Related SIGMAR1 Missense Mutation Causes TDP-43 Inclusion and Mitochondrial Injury Y. Shinoda, H. Tagashira and K. Fukunaga. Tohoku Univ.

**A127 564.4** Inhibition of Toxic IAPP Aggregation by Extracts of Common Fruits D. Moffet, P-Y. Kao, E. Green, C. Pereira, S. Ekimura, D. Juarez, T. Whyte, T. Arhar, B. Malaspina and L.A. Nogaj. Loyola Marymount Univ. and Mount Saint Mary’s Col., Los Angeles.

**A128 564.5** Amyloid Formation by Human Apolipoproteins: Sequence Analyses and Structural Insights O. Gursky and M. Das. Boston Univ. Sch. of Med.

**A129 564.6** Investigation of Aggregate Properties of the Antimicrobial Peptide LL-37 by Dynamic Light Scattering and Electrophoretic Shift Mobility Assay K. Kelly, R.K. Zachary and M.L. Craig. Mary Baldwin Col., VA.

**A130 564.7** Effect of Glucocerebrosidase and Its Substrate, Glucosylceramide on α-Synuclein Aggregation and Degradation R.P. McGlinchey and J.C. Lee. NHLBI, NIH.

**A131 564.8** Cysteine Cathepsins Are Essential in Lysosomal Degradation of α-Synuclein R. McGlinchey and J.C. Lee. NHLBI, NIH.

**A132 564.9** A Molecular Dynamics Study of Interaction between Kinesin Light Chain and Amyloid Precursor Protein C.A. Taylor, S. Shah, B.R. Miller and C.A. Parish. Univ. of Richmond.

**A133 564.10** Computational Analysis of the Interaction between Kinesin Light Chain and Amyloid Precursor Protein S.S. Shah, C.A. Taylor, B.R. Miller and C.A. Parish. Univ. of Richmond.

**A134 564.11** Mechanisms of Rapid Ataxin-1 Degradation in Spinocerebellar Ataxia Type 1 M. Kohiyama, N. Toker, C. Hearing and S. Lagalwar. Skidmore Col., NY.


565. PROTEIN SYNTHESIS AND TURNOVER I

*(Poster Session II scheduled on Tuesday)*

**Poster**

**SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B**

*Presentation time:* 12:05 PM–1:35 PM

**A138 565.1** OASIS is a Novel Cofactor of HiF1α to Promote the Transcription Depend on Hypoxia Response Element under the Hypoxic Condition M. Cui, X. Cui, S. Kanemoto, K. Tanimoto and K. Imaizumi. Hiroshima Univ. Inst. of Biomed. and Hilth. Sci. and Hiroshima Univ. Inst. for Radiation Biol. and Med.

**A139 565.2** Synthesis and Application of Small Cationic Peptides as Potential Antibiotics C.M. Ferrante, J.P. Brandt and M.J. Wolyniak. Hampden-Sydney Col., VA.


**A142 565.5** Identification of a Novel Trafficking Pathway Exporting Protein to the Nucleus via Classical Secretory Pathway in Plasmodium falciparum R. Sharma, B. Sharma and S.K. Dhar. Jawaharlal Nehru Univ.


**A145 565.8** A Yeast-Based Screening for Signal Motifs that Regulate Membrane Protein Trafficking S. Shikano, J.D. Bernstein and Y. Okamoto. Univ. of Illinois at Chicago.

**A146 565.9** rLosac, a Hemolin, Prevents Human Chondrocyte Aging and Degeneration of Articular Cartilage A.M. Chudzinski-Tavassi, M.P. Alvarez-Flores, R.V. Bosch, E. Antonoili, E.S. Pereira-Junior, M. Ferreti and M. Cohen. Inst. of Pharmacol., Vienna and UCSD.


**A149 565.12** Expression of Sperm Acrosomal SLLP1 Binding Protein in a Mammalian System for Crystallization R. Stein, E. Pires, J. Shetty, I. Shumilin and J. Herr. Univ. of Virginia.


566. CHANNELS AND TRANSPORTERS: WHAT’S NEW IN MEMBRANE TRANSPORT PROTEINS I

(Poster Session II scheduled on Monday)

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:55 PM—2:25 PM


A158 566.6 Molecular Basis for Substrate and Inhibitor Interactions with the Glycine Transporter, GlyT2 R.J. Vandenberg, J.E. Carland, A. Edington and R.M. Ryan. Univ. of Sydney.

A159 566.7 Investigating the Interaction between the Dopamine Transporter and the Sigma 1 Receptor M.A. Rodriguez, D. Perley, K. Henry, H. Khoshbouei, A. North and D. Sambo. Univ. of North Dakota and Univ. of Florida Col. of Med.


A165 566.13 Amino Acid Positions Important for Substrate Specificity in Plant Sucrose Transporters A. Reinders and J. Ward. Univ. of Minnesota.


567. PROTEOMICS AND BIOINFORMATICS

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:55 PM—2:25 PM


A174 567.7 Investigating Cysteine-Mediated Protein Activities in Complex Proteomes S.M. Couvertier and E. Weerapan. Boston Col.


A178 567.11 Improving Function Assignment for Metalloenzymes through Active Site Alignment Using ProMOL/PyMOL V.A. Kovuri, M. Bryan, H.J. Bernstein and P.A. Craig. Rochester Inst. of Technol. and Dowling Col., NY.

A180 567.13 Shotgun Proteomic Analysis of Protein Expression in Mosquito Ovaries Post Blood Meal D.L. Geiser, W. Li, D.Q-D. Pham, V.H. Wysocki and J.J. Winzerling. Univ. of Arizona and Univ. of Wisconsin-Parkside.


A182 567.15 Label-Free Quantitative Proteomics Identify Global Protein Interactors for the Androgen Receptor Associated Cochaperone SGTA L. Prieto, Y. Garcia and M.B. Cox. Univ. of Texas at El Paso.


A185 567.18 Examining Big Data Using Information Flow Analysis – Application to the Functional Characterization of Plant-Derived Therapeutics P. Hensley, W.T. Loggins and A.F. Fliri. SysMedic, Groton, CT and Icahn Sch. of Med. at Mount Sinai.

A186 567.19 Admixture in Horse Breeds Illustrated from Single Nucleotide Polymorphism Data C.J. Torres Gutierrez and Y. Brandvain. Univ. of Puerto Rico in Ponce and Univ. of Minnesota.


A191 567.24 Examination of Isoprenoid Chain-Length Control in Corynebacterium glutamicum K.J. Nelson and F.M. Mann. Winona State Univ., MN.


A196 567.29 Evaluation of Sample Disruption Techniques for High Throughput Extraction of Subcellular Organelles S. Garrett and J. Atwood. Omni Intl., Kennesaw, GA.


568. LIPIDS - IN VIVO DYNAMICS, PROTEIN PARTNERS AND SIGNALING I

(Poster Session II scheduled on Monday)

A199 568.1 The Lipid Transfer Protein STARD3: An Architect from the Cell C.L. Tomasetto, F. Alpy, G. Drin and T.P. Levine. IGBMC- U964 INSERM, Strasbourg; University Col. London and Univ. of Nice Sophia-Antipolis.


A203 568.5 Lack of Pah1p PA Phosphatase in Yeast Causes Reduced Chronological Life Span through Increased Energy Expenditure for Lipid Synthesis Y. Park, G.M. Carman and G-S. Han. Rutgers Univ.


A206 568.8 Regulation of the Yeast DAG Kinase by Phosphorylation. Y. Qiu and G.M. Carman. Rutgers Univ.

A207 568.9 Specific Transient Interactions between a Bacillus Virulence Factor and Phosphatidylcholine in Membranes. A. Gershenson, B. Yang, T. He, H.M. Khan, C. Graufel, N. Reuter and M.F. Roberts. Univ. of Massachusetts Amherst; Boston Col. and Univ. of Bergen.

A208 568.10 Strenuous Exercise and Quercetin Intake Stimulates Aortic NFXB Signaling. H. Mahini, G. Ainsworth and M. Garelnabi. Univ. of Massachusetts Lowell.


A213 568.15 Transbilayer Lipid Distribution in Nano Scale M. Murate, M. Abe, M. Umeda and T. Kobayashi. RIKEN, Wako; Kyoto Univ. and Univ. Lyon 1

A214 568.16 Influence of Serum and Hypoxia on Endogenously Synthesized Lactides and Lactate rom Radiolabeled Glucose or Glutamine in Murine Glioblastoma Cells. N. Ta and T. Seyfried. Boston Col.


A216 568.18 Genetic Screen for Suppressors of Yeast Coq8 Mutants. A.M. Hussein, H.T. Lam, T.P. Nguyen, C.H. He and C.F. Clarke. UCLA.


A220 568.22 Does PtdIns(4,5)P2 Concentrate So It Can Multitask? G. Hammond and T. Balla. NICHD, NIH and Univ. of Pittsburgh Sch. of Med.


A222 568.24 Kinetic Mechanism of Lipidprotein Nanodisc Dissociation in Bicelles. K. Muñoz-Forti and R. Renthall. Univ. of Puerto Rico, Ponce and Univ. of Texas at San Antonio.


A225 568.27 Characterization of S. cerevisiae Coq10p, a Putative START Domain Q-Binding Protein. H.S. Tsui and C.F. Clarke. UCLA.


A228 568.30 Studies into the Farnesylated Analogs of Key Intermediates in the Biosynthetic Pathway of Coenzyme Q: Synthesis and Metabolism. A. Nag, C. He, J. Shepherd and C. Clarke. UCLA and Gonzaga Univ., WA.


A232 568.34 Distribution of Phosphatidylethanolamine in Intracellular Membrane Networks. S. Hou and M. Zhao. Vassar Col., NY.


569. APOPTOSIS AND CELL STRESS

Poster

SUNDAY 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:05 PM—1:35 PM


A236 569.2 Arginyltransferase (Ate1) Is a Pro-apoptotic Enzyme Essential for Stress Response. A. Kumar, M.D. Birnbaum and F. Zhang. Univ. of Miami.


A240 569.6 Expression and Purification of the Metacaspase Protein Scp3 from the Fungus S. commute. T.S. Barker, C. Gagliardi and K.M. Fox. Union Col., NY.

A241 569.7 Investigating the Role of the Yeast Metacaspase, Yca1p, in the Programmed Cell Death of Aneuploid Cells of Saccharomyces cerevisiae. S. Rogers, R. Frazier, S. Pinches and N. Austrilio. Providence Col.

A242 569.8 Characterization of Yeast Bax Inhibitor, BX11, Function in the Unfolded Protein Response and Calcium Signaling in Saccharomyces cerevisiae S. Rogers, R. Frazier, S. Pinches and N. Austrilio. Providence Col.


A249 569.15 Understanding the Apoptotic Potential of Heart Cells. T.A. Davis and V. Del Gaizo Moore. Elon Univ.

A250 569.16 Investigation of the Cellular Mechanism of Apoptosis in Renal Failure during Sepsis. T. Lampl and V. Del Gaizo Moore. Elon Univ.


570. MECHANISTIC IMPACTS OF POSTTRANSLATIONAL MODIFICATIONS I

(Poster Session II scheduled on Monday)


A257 570.6 A Lysosomal Targeting Defect of V0a1 Suppresses V-ATPase Activity Elevating Lysosomal pH in Ppt1-KO Mice: Amelioration by NTBuHA M.B. Bagh, G. Chandra, S. Peng, Z. Zhang and A.B. Mukherjee. NICHD, NIH.

A258 570.7 Mutational Analysis of the Dimer and Decamer Interface Residues in the Yeast Peroxiredoxin Tsa1. M.A. Loberg, J.A. Buchan, K.M. Allan, M.K. Spencer and J.D. West. The Col. of Wooster, OH.

A260 570.9 Writing and Reading the CTD Code: In Vitro Reconstruction of Post-translational Modifications on RNA Polymerase II. J.E. Mayfield, M.R. Robinson, J.S. Brodbelt and Z. Zhang. Univ. of Texas at Austin.


A262 570.11 Posttranslational Modification Cross Talk Regulates the Critical Adaptive Immune Molecule, the Class II Transactivator J.E. Morgan and S.F. Greer. Georgia State Univ.

A263 570.12 Identifying Autoptalmitoylation Inhibitors through Scaffold Ranking. L.D. Hamel, B.J. Lenhart, D.A. Mitchell, M.A. Giulianotti and R.J. Deschenes. Univ. of South Florida and Torrey Pines Inst. for Molec. Studies, Por St. Lucie, FL.


A266 570.15 Histone Post-translational Modifications Differentially Regulated in a Mouse Mode of Heart Disease. M.R. Miller, A. Makaju, L. Wang and S. Franklin. Univ. of Utah.

A267 570.16 Role of mTOR and ERK in PMT-Induced Cell Proliferation and Survivin Upregulation. H. Oubrahim, D. Bacsik and P.B. Chock. NHLBI, NIH.


571. MOLECULAR MECHANISMS OF INFECTION AND IMMUNITY I

(Poster Session II scheduled on Monday; Poster Session III scheduled on Tuesday)

Poster

Sun. 7:30 am—Boston Convention & Exhibition Center, Exhibit Halls A & B

Presentation time: 12:05 pm—1:35 pm

A273 571.1 Investigating the Binding Affinity of Nod2 and Soluble Bacterial Cell Wall Dimers. L.A. Genova and C.L. Grimes. Univ. of Delaware.


A277 571.5 Immunoglobulin Knockout Chickens Lack Detectable Circulating IgA in Response to Keyhole Limpet Hemocyanin Vaccination. K. Bolek and K. Klasing. Univ. of California, Davis.

A278 571.6 Cytochrome C Binds Complement 3b. L. Sibulo and D. Rhodes. Pacific Northwest Univ. of Hlth. Sci.

A279 571.7 In Vitro Modeling of Extracellular Trap Release and Association with LL-37 Peptide in THP-1-Derived Macrophages. S.A. Stone and M.L. Craig. Mary Baldwin Col., VA.


A287  571.15  Identification of the Antimicrobial Peptide LL-37 as a Ligand for Integrin \( \alpha_4 \beta_2 \) (Mac-1, CD11b/CD18) Reveals Its Role in Macrophage Phagocytosis V.K. Lishko, B. Moreno, N.P. Podolinka and T.P. Ugarova.  Arizona State Univ.


A291  571.19  Rescuing Nod2, an Innate Immune Receptor of Bacterial Cell Wall Fragments, in Crohn Disease C.L. Grimes and V. Mohanan.  Univ. of Delaware.


A295  571.23  Cucurbiturils as Inhibitors of Complex Formation between LL-37 and DNA C. Brooks, R.K. Zachary and M.L. Craig.  Mary Baldwin Coll., VA.

A296  571.24  The Interaction of the LL-37 Peptide with CpG DNA Oligonucleotides I.L. Avelsgard and M.L. Craig.  Mary Baldwin Coll., VA.


A299  571.27  An Intricate Link between MicroRNAs and Regulation of Autophagy in Cystic Fibrosis M.F. Tazi, D. Dakhallah, K. Caution, C. Marsh and A. Amer.  The Ohio State Univ.

A300  571.28  Management of amebiasis based on biochemical signaling and host pathogen interactions J.Y. Tashjian and A. Espinosa.  Roger Williams Univ.


A303  571.31  Engineering T Cell Receptors to Optimize Recognition of Target Antigens T.P. Riley and B. Baker.  Univ. of Notre Dame.

A304  571.32  Conserved Residues in TCR CDR Loops and Their Role in Influencing Antigen Recognition S.J. Blevins and B.M. Baker.  Univ. of Notre Dame.

A305  571.33  Molecular Dynamics Studies of the Role of Protein Flexibility in Immunological Molecular Recognition C.M. Ayres, D.R. Scott, B.M. Baker and S.A. Corcelli.  Univ. of Notre Dame.

572.  ENZYME MECHANISM

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:55 PM–2:25 PM


A307  572.2  Mechanistic Insight into the 14-3-3 Protein-Dependent Activation of Yeast Neutral Trehalase Nth1 V. Obsilova, M. Kopecka, P. Man and T. Obsil.  Inst. of Physiol., AS CR; Charles Univ., Prague and Inst. of Microbiol., AS CR.

A308  572.3  Engineering New Substrate Specificity into the Active Site of Styrene Monoxygenases P. Truong and G.T. Gassner.  San Francisco State Univ.


A310  572.5  Radical Propagation in E. coli Class Ia Ribonucleotide Reductase Initiated by a 2,3,5-Trifluorotyrosyl Radical Cofactor K. Ravichandran, E. Minnihan and J. Stubbe.  MIT.


A312  572.7  High-Resolution 31P Field Cycling NMR as a Probe of Substrates Dynamics on GMP Reductase M.M. Rosenberg, A.G. Redfield, M.F. Roberts and L. Hedstrom.  Brandeis Univ. and Boston Col.


A315 572.10 Probing Conformational Change during Radical Propagation in the E.coli Class 1a RNR Using 3-Aminotyrosine as a Radical “Sink” W. Lee, E. Minnihan and J. Stubbe. MIT.
A316 572.11 Structural Determinants in Hinge-Bend Motions of Neurolysin B.L. Bibel and J.A. Sigman. Saint Mary’s Col. of California.
A317 572.12 Investigation of the Radical SAM Enzyme CDG Synthase N.A. Bruener, D.P. Dowling, C.L. Drennan and V. Bandarian. Univ. of Arizona and MIT and HHMI.
A318 572.13 Inhibition and Kinetic Isotope Effect Studies to Further Characterize the Mechanism of Maleamate Amidohydrolase K. Malani and M.J. Snider. Col. of Wooster, OH.
A321 572.16 Neutron/X-Ray Joint Refinement of the Active and Inactive Form of Helicobacter pylori 5'- Methylthioadenosine Nucleosidase M. Banco, V. Mishra, A. Kovalevsky and D. Ronning. Univ. of Toledo and Oak Ridge Natl. Lab.
A322 572.17 Exploration of the Catalytic and Kinetic Mechanism of ATP Hydrolysis by Bacteriophage T4 Rad50 T.J. Herdendorf and S.W. Nelson. Iowa State Univ.
A327 572.22 Evaluating the Mechanistic Roles of Amino Acid Residues in the Active Site of Cysteine Dioxygenase C.J. Graham and H.R. Ellis. Auburn Univ.
A330 572.25 Visualization of Pronation States in PLP Dependent Enzymes S. Dajnowicz, T. Mueser, L. Hanson and C.A. Schall. Univ. of Toledo.
A332 572.27 Analyzing the Mechanistic Role of an Active Site Lysine Residue in Monofunctional and Bifunctional Proline Dehydrogenases J.L. Floth and D. Becker. Univ. of Nebraska-Lincoln.

573. ENZYMES MECHANISMS AND CHEMICAL BIOLOGY

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIB HALLS A & B

Presentation time: 12:55 PM–2:25 PM

A336 573.2 Nature’s Sniper for Long-Range Specific Protein Oxidation A. Liu. Georgia State Univ.
A338 573.4 Thermostable Alkaline Protease Production by Bacillus aryabhattai J4 S.A. Selim. Aljouf Univ.; Saudi Arabia.
A339 573.5 Substrate Specificity and Quaternary Structure of a Novel Class of Tryptophan Synthases F. Busch and R. Sterner. Univ. of Regensburg.
A342 573.8 Incorporation of Azide Functionality into Recombinant Protein via Recombinant, Enzymatic, and Chemical Approaches for Bio-orthogonal Modification L. Wang, R. Jiang, L. Wang and X-L. Sun. Cleveland State Univ. and Northeastern Univ.
A349  573.15 Substrate Recognition by the Radical Enzyme Benzylsuccinate Synthase M.A. Funk and C.L. Drennan. MIT and HHMI.
A350  573.16 MTHFD1 and Nuclear Thymidylate Biosynthesis R.P. Liebenthal, P.J. Stover, E. Kamynina and M.S. Field. Cornell Univ.
A351  573.17 Sequence Similarity Networks for the Protein Universe K.L. Whalen, B. Sadkhin, D. Davidson and J.A. Gerlt. Univ. of Illinois at Urbana-Champaign.
A356  573.22 Exploration of the Protein Cleaving Ability and Specificity of 1,4,7-Triazacyclononane-copper(II) Chloride P. Sweet and B. Bodsgard. Saint Mary’s Univ. of Minnesota.
A357  573.23 Study of Kinetic Mechanism of Flavin-Dependent Thymidylate Synthase from Thermotoga maritima A. Sapra and B. Palrey. Univ. of Michigan Med. Sch.
A360  573.26 Investigating the Role of 3-Phosphoinositide-Dependent Protein Kinase 1 in the Spatiotemporal Regulation of the Purinosome A. Sundaram and S. An. Univ. of Maryland Baltimore County.
<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small Molecule-Induced Catalytic Ubiquitination of Non-natural Substrates</td>
<td>D.P. Bondeson, C. Pankevac, L. Kruidenier, P. Carter, I. Churcher and C. Crews.</td>
<td>Yale Univ. and GlaxoSmithKline, U.K.</td>
</tr>
<tr>
<td>A Novel Pathway for Bacterial Ethanolamine Metabolism</td>
<td>B. San Francisco, X. Zhang, K.L. Whalen and J.A. Gerlt.</td>
<td>Univ. of Illinois at Urbana-Champaign.</td>
</tr>
<tr>
<td>Structural Comparison of Firefly Luciferase</td>
<td>A. Anishkin, D.M. Rogers and S. Sukharev.</td>
<td>Univ. of South Florida.</td>
</tr>
<tr>
<td>Exploring the Role of Proline Metabolism in Helicobacter Pathogenicity</td>
<td>S. Christgen, A. Ramer-Tait and D. Becker.</td>
<td>Univ. of Nebraska-Lincoln.</td>
</tr>
<tr>
<td>Active Role of the Substrate during Catalysis by the Therapeutic Enzyme L-Asparaginase II</td>
<td>M.S. Sampson, T. Miller, P.J. Tonge and J.C. Seeliger.</td>
<td>Stony Brook Univ.</td>
</tr>
<tr>
<td>Monoubiquitination Regulates Golgi Membrane Dynamics in the Cell Cycle</td>
<td>Y. Wang, X. Zhang and S. Huang.</td>
<td>Univ. of Michigan.</td>
</tr>
<tr>
<td>TORC1 Inhibition Using a Drug Combination Approach</td>
<td>T. Sasaki.</td>
<td>Yale Univ. and GlaxoSmithKline, U.K.</td>
</tr>
<tr>
<td>Purification and Characterization of a Bacterial Mating Protein</td>
<td>A. Bulku and M. Berkmen.</td>
<td>Suffolk Univ., MA.</td>
</tr>
<tr>
<td>Yeast Env9 Is a Conserved Oxidoreductase Involved in Lipid Droplet Biogenesis</td>
<td>I. Siddiquah, S. Manandhar and E. Gharakhian.</td>
<td>California State Univ. Long Beach.</td>
</tr>
<tr>
<td>Effects of Agonist and Regulator Binding on the Structure and Conformational Flexibility of the Ligand Binding Domains of Ionotropic Glutamate Receptors</td>
<td>F. Barkdoll-Weil, C. Guzman, Z. Asif, P. Varnes and J.E. Bell.</td>
<td>Univ. of Richmond.</td>
</tr>
<tr>
<td>Effects of Regulator Binding on the Structure and Conformational Flexibility of the Amino Terminal Domains of Ionotropic Glutamate Receptors</td>
<td>P. Varnes, C. Metz, E. Bartle and J.E. Bell.</td>
<td>Univ. of Richmond.</td>
</tr>
<tr>
<td>Elucidating the Structural Consequences of CQC-Mediated Dimerization of MUC1</td>
<td>T. Stachowski and E. Courtoy and D. Tyteca.</td>
<td>Univ. of Richmond.</td>
</tr>
<tr>
<td>Impact Various Pcp1p Mutations Have on Mitochondrial Genome Maintenance and Morphology</td>
<td>A.P. Both, M.E. Huddleston and D.M. Gordon.</td>
<td>Mississippi State Univ.</td>
</tr>
</tbody>
</table>
A408 574.23 Isolation and Proteomics of Extracellular Microvesicles Shed by *Tetrahymena thermophila* during Matings O. Dmytrenko, A.R. Ripeckyj and E.S. Cole. St. Olaf Col., MN.


A410 574.25 Phosphatidylinositol 4,5-Bisphosphate Activates the Cell Adhesion Molecule CD44 and Assembles a CD44-Ezrin Heterotrimeric Complex as Revealed by Small Angle Neutron Scattering Z. Bu. City Col. of New York, CUNY.

A411 574.26 Caveolin-1, a Mechano-mediator, Is Expressed in the Epithelial and Stromal Cells of Mice Cervix and Increases during Pregnancy A.P. Brunson, T. Ohashi, S. Jesmin and C. Mowa. Appalachian State Univ.; Univ. of Tsukuba and Univ. of Johannesburg.

A412 574.27 Evidence for Presence of Focal Adhesion Kinase and Enhanced Activity in Epithelial and Stromal Cells of Mice Cervix during Pregnancy S.A. Gautam, A. Brunson, T. Ohashi, S. Jesmin and C. Mowa. Appalachian State Univ.; Univ. of Tsukuba and Univ. of Johannesburg.


A415 574.30 Distinct Intracellular Trafficking Patterns of Host IgG by Herpes Virus Fc-Receptors B. Ndjamen and P. Bjorkman. Caltech.

575. HUMAN MICROBIOME AND MICROBIOME DYNAMICS

**Poster**

Sun. 7:30 AM — Boston Convention & Exhibition Center, Exhibit Halls A & B

*Presentation time: 12:55 PM—2:25 PM*


A419 575.4 Characterization of an Alternative Starch Utilization System from the Human Gut Bacterium *Bacteroides thetaiotaomicron* and Its Implications in Human Nutrition M.M. Chaudet and D.R. Rose. Univ. of Waterloo, Canada.


A422 575.7 Production of Antimicrobial Substances by Nonpathogenic *Neisseria* Species J. Ogle, A. Finck and E. Aho. Concordia Col., MN.

A423 575.8 A Systematic Study of the Stress Response Induced by Low pH treatment of Heavily Contaminated Water on Viability and Protein Expression Profiles of *E.coli* O. Gada. Wellesley Col., MA.

A424 575.9 Cinnamaldehyde Inhibits Biofilm Formation of MRSA M. Rossi and R.M. Heuertz. Saint Louis Univ.


A431 575.16 Chronic Sweetener Intake and Oxidative Stress in the Central Nervous System Z. Rebollodeo, I. Contreras and J.A. Estrada. Autonomous Univ. of Mexico State, Toluca.

A432 575.17 Symbiotic Bacterial Metabolites Regulate Gastrointestinal Barrier Function via the Xenobiotic Sensor PXR and Toll-Like Receptor 4 S. Mani and H. Li. Albert Einstein Col. of Med.

A433 575.18 Isolation and Classification of Bacteriophages in Untreated and Treated Sewage to Test Effectiveness of Water Treatment Methods K.A. Meuer, A.J. Piefer, M. Allen and Z. Balogh-Brunstad. Hartwick Col., NY.

A434 575.19 Functional Association Profiling of Metabolic Landscape and Microbiome in Chronic Pressure Ulcer Wounds M.C.B. Ammons and V. Copie. Autonomous Univ. of Mexico State, Toluca.

A435 575.20 Toxicity of Aminoglycoside Antibiotics May Be Due to Alternate Binding of the Human Mitochondrial Ribosomal RNA S. Hong, K.D. Fanning, K.A. Harris, K.M. Frohlich and P.F. Agris. Univ. at Albany, SUNY.


A437 575.22 A Potential Role of *H. pylori* PPIase in the Transformation of Gastric Epithelial Cell and the Development of Gastric Cancer J. Liu. University of North Carolina at Chapel Hill; Albert Einstein Col. of Med.

A438 575.23 Toxin-Antitoxin Systems and Their Role(s) in Persistence R. Page and W. Peti. Brown Univ.

A439 575.24 Analyzing Bacterial Communities in *Pediculus humanus capitis* M. Plekan, M.E. St Amand, V. Klepac-Ceraj and C.N. Peterson. Suffolk Univ. and Wellesley Col., MA.


576. CANCER DIAGNOSIS/PROGNOSIS

Poster

**Presentation time:** 12:05 PM - 1:35 PM


A444 576.2 Evaluation of Different Oxidative Stress Biomarkers in Endometriosis. C. Castruccio Castracani, G. Li Volti, A. Cianci, I. Barbagallo, G. Di Simone, L. Vanella and M. Iraci. Univ. of Catania, Italy.


A452 576.10 Cyclin G2 Contributes to the Cell Cycle Arrest Response of Breast Cancer Cells to Estrogen Signaling-Antagonists and the AMPK Agonist. M. Zimmermann, A. Arachchige Don, M. Donaldson and T. Patriarchi. Univ. of California, Davis and Univ. of Iowa.

577. CANCER IMAGING: A PICTURE IS WORTH > 1K WORDS

Poster

**Presentation time:** 12:05 PM - 1:35 PM


A459 577.7 A New Approach to SNAP-Tag Technology as a Possible Imaging Tool for Translational Research. N. Sumzin, M. Moroz and V. Ponomarev. Mem. Sloan Kettering Cancer Ctr. and St. John’s Univ., NY.


A462 577.10 Landscape Phage Probes for Prostate Specific Antigen. O.A. Fagbohun, V.A. Petrenko and E. Abraham. Univ. of ibadan, Nigeria.
578. MICRO AND LONG NONCODING RNA IN CANCER
Poster
SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B
Presentation time: 12:05 PM–1:05 PM

A465  578.3 A MicroRNA Signature of Response to Erlotinib Is Impacted by the EMT-Inducing Cytokine TGFβ1 M.J. Krentz, R. Astley and E.P. Black. Univ. of Kentucky.

579. GLOBAL NUTRITION: ANTHROPOMETRY
Poster
(Sponsored by: Global Nutrition Council)
SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B
Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)


C8  II 579.8 Stunting during Infancy and Schooling: A Prospective Study in Senegal K.A. Bork, M. Adjibade, V. Delaunay and P. Lévi. Inst. of Res. and Develop., Montpellier and Inst. of Res. and Develop., Dakar, Senegal.
C9 I 579.9 Prevalence and Associated Factors of Malnutrition among Primary School Students in the Rakai District of Uganda E. Brown and M. Kern. San Diego State Univ.


580. LACTATION: RELATIONSHIPS OF MATERNAL DIET AND HEALTH TO LACTATION PERFORMANCE AND INFANT HEALTH

Poster

(Sponsored by: Lactation RIS)

Sun. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)


C27 I 580.5 Body Composition, Diet Quality, and Changes in CRP in Overweight, Lactating Women E. Shearer, L. Wideman and C. Lovelady. Univ. of North Carolina at Greensboro.
581. LACTATION: PREDICTORS OF LACTATION INITIATION AND DURATION; AND INTERVENTIONS TO IMPROVE LACTATION SUCCESS

Poster

(Sponsored by: Lactation RIS)

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)

C28 I 581.1 Beliefs Regarding Lactation Success among Mothers on a University Campus L.M. Dinour and Y. Bai. Montclair State Univ.


C33 II 581.6 Mothers’ Experiences Expressing Breastmilk for VLBW Infants: A Phenomenological Case Study K. Bower, T. Burnette, D. Lewis, C. Wright and K. Kavanagh. Univ. of Tennessee and Univ. of Tennessee Med. Ctr., Knoxville.


582. LACTATION: BIOACTIVE COMPONENTS AND OTHER MILK CONSTITUENTS AND THEIR EFFECT ON THE INFANT

Poster

(Sponsored by: Lactation RIS)

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)

C37 I 582.1 Bovine Lactoferrin Is a Transcription Factor Stimulating IL-1 Beta Gene Expression in the Small Intestine R. Jiang and B. Lönnerdal. Univ. of California, Davis.


C40 II 582.4 Patterns of Growth Factor Receptor Expression Correlate with Concentrations of Their Respective Growth Factors in Mouse Milk during Lactation M. Zhang and B. Lönnerdal. Univ. of California, Davis.

C41 II 582.5 Effect of Breastmilk Leptin and Macronutrient Content on Gastric Emptying in Term Breastfed Infants D.T. Geddes, Z. Gridneva, A.M. Cannon, A.R. Hepworth, W.J. Tie, C.T. Lai and P.E. Hartmann. Univ. of Western Australia.

C42 II 582.6 A Longitudinal Study of Human Milk Composition Beyond One Year Postpartum M.T. Perrin, A.D. Fogleman and J.C. Allen. North Carolina State Univ.

C43 I 582.7 Optimization of Cell Isolation from Human Milk F. Hassiotou, D. Savigni, P.E. Hartmann and D.T. Geddes. Sch. of Chem. and Biochem., Univ. of Western Australia.

C44 II 582.8 Profiling of Human Milk miRNA F. Hassiotou, M. Alsaweed, D. Savigni, C.T. Lai, P.E. Hartmann and D.T. Geddes. Sch. of Chem. and Biochem., Univ. of Western Australia.

C45 I 582.9 Gene Expression Profiles Suggest Iron Transport Pathway in Human Lactating Epithelial Cell J.K. Friel, C. Cai, S. Castillo San Juan and P. Eck. Univ. of Manitoba.


Poster Presenters:
Upload Your Poster

Where: E-Poster Counter, Lobby D
Deadline: Wed., April 1, 3:00 PM

Uploaded posters will be available online to all registered attendees following the meeting at www.experimentalbiology.org
583. LACTATION: BIOLOGY OF LACTOGENESIS, LACTATION AND MILK COMPOSITION

Poster

(Sponsored by: Lactation RIS)

Posters: 7:30 AM—Boston Convention & Exhibition Center, Exhibit Halls A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)

C47 I 583.1 Milk Osmolality and Body Hydration Status in Lactating Mothers from the Western Highlands of Guatemala M.J. Soto Mendez, A. Maldonado, L. Burgunder, L. Scieszka, A. Gil and N.W. Solomons. CeSSIAM, Guatemala and Univ. of Granada.


C49 I 583.3 Insulin Resistance, Thyroid-Related Hormones, and Duration of Postpartum Amenorrhea in Lactating Women M.K. McGuire, J.E. Williams and M.A. McGuire. Washington State Univ. and Univ. of Idaho.


584. COMMUNITY AND PUBLIC HEALTH NUTRITION: COMMUNITY AND PUBLIC HEALTH NUTRITION INTERVENTIONS

Poster

(Sponsored by: Community and Public Health Nutrition RIS)

Posters: 7:30 AM—Boston Convention & Exhibition Center, Exhibit Halls A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)


C56 II 584.2 Recruiting RCT Participants: To Facebook or Not to Facebook? M.M. Koenings, J. Martin-Biggers and C. Byrd-Bredbenner. Rutgers Univ.

C57 II 584.3 Wellness Policy and the Head Start Environment: The Moderating Role of Head Start Teachers in the Children’s Healthy Living Program in Hawai’i M.K. Esquivel, F. Li and R. Novotny. Univ. of Hawai at Manoa.


C60 II 584.6 Changes in Self-Efficacy and Fruit and Vegetable Intake in the FAITH Trial A. Morel L’Horset, A.M. Schoenthaler, W. Chaplin, G. Ogedegbe and K.J. Lancaster. NYU; NYU Sch. of Med. and St. Johns Univ., NY.


C65 I 584.11 Determining the Feasibility and Acceptability of a Campus Dairy Campaign Designed to Increase College Students’ Awareness of the Importance of Dairy Calcium A. Rose, J. Seger, B. Gillis, J. Kennel and C. Gunther. The Ohio State Univ.


C68 II 584.14 Impact of Reducing Sugar-Sweetened Beverage Consumption on Total Calorie and Sugar Intake L. Collin and J. Welsh. Children’s Healthcare of Atlanta and Emory Univ.
C69 I 584.15 The Effects of Extended Fasting on Body Mass Index, Caloric Intake, and Metabolic Rate among Saudi Students M. Alquraishi, A. Marshall, R. Henry and K. Robichaud. King Saud Univ. and Lipscomb Univ. Col. of Pharm. and Hlth. Sci.
C70 II 584.16 Mothers and Others: Designing a Randomized Trial to Prevent Obesity among Infants and Toddlers H.M. Wasser and M.E. Bentley. Univ. of North Carolina at Chapel Hill.


C65 I 584.11 Determining the Feasibility and Acceptability of a Campus Dairy Campaign Designed to Increase College Students’ Awareness of the Importance of Dairy Calcium A. Rose, J. Seger, B. Gillis, J. Kennel and C. Gunther. The Ohio State Univ.


C68 II 584.14 Impact of Reducing Sugar-Sweetened Beverage Consumption on Total Calorie and Sugar Intake L. Collin and J. Welsh. Children’s Healthcare of Atlanta and Emory Univ.

C69 I 584.15 The Effects of Extended Fasting on Body Mass Index, Caloric Intake, and Metabolic Rate among Saudi Students M. Alquraishi, A. Marshall, R. Henry and K. Robichaud. King Saud Univ. and Lipscomb Univ. Col. of Pharm. and Hlth. Sci.

C70 II 584.16 Mothers and Others: Designing a Randomized Trial to Prevent Obesity among Infants and Toddlers H.M. Wasser and M.E. Bentley. Univ. of North Carolina at Chapel Hill.


585. COMMUNITY AND PUBLIC HEALTH NUTRITION: FOOD SECURITY AND ITS CONNECTIONS TO NUTRITION AND HEALTH

Poster
(Sponsored by: Community and Public Health Nutrition RIS)

Presentation time: 12:45 PM – 1:45 PM (I); 1:45 PM – 2:45 PM (II)


C89 II 585.4 Changes of Food Insecurity in Vietnamese Female Marriage Immigrants in South Korea: The Korean Genome and Epidemiology Study H. Yang, H. Kim, H. Chung and N. Chang. Ewha Womans Univ., South Korea.

C90 I 585.5 Prenatal Food Insecurity: How Is It Related to Pregnancy and Birth Outcomes among Low-Income Women D. Nunnery and J. Dharod. Univ. of North Carolina at Greensboro.


C94 I 585.9 Food Assistance Program Participation and Health Care Utilization in Low-Income Homebound Older Georgians V. Bhargava and J.S. Lee. Univ. of Georgia.


C101 II 585.16 Comparison of Food Prices in the U.S. Affiliated Pacific Region Based on the 2002 USDA Food Security Toolkit and the Thrifty Food Plan J. Greenberg, B. Luick, R. Barber, A. Bersamin, P. Coleman, R. Ettienne, T. Fleming, J. Hollyer, E. Johnson, F. Li, R. Nelson, R. Novotny, S. Remengesau, J. Riklon, K. Roberts and L. Wilkens. Univ. of Alaska Fairbanks; Univ. of Guam Mangilao; Northern Marianas Col., Saipan; Univ. of Hawaii and Amer. Samoa Community Col., Pago Pago.


C103 II 585.18 Food Insecurity of Children Increases Shame of Others Knowing They Are without Food J. Bernal, E.A. Frongillo and K. Jaffe. Univ. Simón Bolivar, Venezuela and Univ. of South Carolina.


C113 II 585.28 Differences in Food Sources of Select Nutrients among U.S. Adults by Food Security Status C.A. Taylor, A. Markwordt, N. Hooker, R. Watowicz, J. Clark and C.K. Spees. The Ohio State Univ.


586. NUTRITION EPIDEMIOLOGY: RESEARCH WITH DIETARY SUPPLEMENTS AND BIOACTIVE COMPONENTS

Poster
(Sponsored by: Nutritional Epidemiology RIS)

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)


C118 I 586.3 Effect of Muscadine Juice and Elderberry Preparations on Wild-Type H1N1 Influenza Virus-Induced Cytotoxicity S.M. Elrod and P. Greenspan. Univ. of Georgia Col. of Pharm.


C123 II 586.8 Oleuropein Inhibits IL-4-Induced Epithelial-Mesenchymal Transition in Airway Epithelial Cells J-H. Gong and Y-H. Kang. Hallym Univ., South Korea.


587. NUTRITION EPIDEMIOLOGY: ADVANCING NUTRITIONAL EPIDEMIOLOGY WITH PUBLIC USE AND COMMERCIAL DATA SETS

Poster
(Sponsored by: Nutritional Epidemiology RIS)

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)


C127 I 587.3 10-Year Beverage Intake Trends among U.S. Preschool Children: Rapid Declines between 2003 and 2010, but Stagnancy in Recent Years C.N. Ford, S.W. Ng and B.M. Popkin. Univ. of North Carolina at Chapel Hill.


C129 I 587.5 Vegetables, Fruit, and Whole Grains Consumption by U.S. Adults at Meals and Snacks: WWEIA, NHANES 2011-12 S. Bowman, J. Friday, J. Clemens and A. Moshfegh. USDA, Beltsville.

C130 II 587.6 Two Methods to Estimate Fruit and Vegetable Intake of Adults, What We Eat in America, NHANES 2009-2010 K. Hoy, J.D. Goldman and A.J. Moshfegh. USDA, Beltsville.
C131 I 587.7 Associations between Self-Rated Diet Quality and Type 2 Diabetes Indicators: Results from the National Health and Nutrition Examination Survey (NHANES 2009-2010) J. Beasley, S.S. Yi and M.J. Firestone. Albert Einstein Col. of Med. and NYU Sch. of Med.


C133 I 587.9 Are Food Processing and Convenience Linked with the Nutritional Quality of Foods Purchased by U.S. Households? J. Poti, M. Mendez, S.W. Ng and B. Popkin. Univ. of North Carolina at Chapel Hill.


C135 I 587.11 Food Insecure Children’s Exposure to Secondhand Smoke Is More Likely To Be Misclassified M. Ding and C.A. Zizza. Auburn Univ.


C139 I 587.15 Comparison of Selected Micronutrient Intakes between Vegans and Omnivores Using Dietary Reference Intakes M. Ezmirly, J. Phelps, T. Crook and R. Hakka, Univ. of Arkansas for Med. Sci.


588. AGING: RISK FACTOR MODIFICATION FOR CARDIOMETABOLIC HEALTH AND CHRONIC DISEASE

Poster

(Sponsored by: Aging and Chronic Disease RIS)

Sun. 7:30 am—Boston Convention & Exhibition Center, Exhibit Halls A & B

Presentation time: 12:45 pm–1:45 pm (I); 1:45 pm–2:45 pm (II)


C147 I 588.3 The Relationship between Caffeine Consumption and Type 2 Diabetes Markers in Three Minority Ethnicities with or without Diabetes N. Mikati, G.G. Zarini, J.A. Vaccaro and F.G. Huffman. Florida Intl. Univ.


C149 I 588.5 The Relationship between Physical Inactivity, Body Composition, and Cardiometabolic Risk in Adults with Rheumatoid Arthritis K. Woolf, M. Kiely and Y. Yazici. NYU Steinhardt and NYU Langone.


C153 I 588.9 Dietary Antioxidants in Relation to Serum CRP in Mid-Life and Older African Americans K. Rancano, P.A. Ralston, J. Lemacks and J.Z. Ilich. Florida State Univ. and Univ. of Southern Mississippi.


**589. AGING: NUTRITIONAL NEEDS AND ASSESSMENT IN OLDER ADULTS/POPULATIONS**

**Poster**

**(Sponsored by: Aging and Chronic Disease RIS)**

**SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B**

**Presentation time:** 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)

**C160 I 589.1** Dietary Inflammatory Index Scores and C-Reactive Protein Concentrations among Older Adults J.M. Houdek, C.C. Tangney, K.A. Roehl, K.A. Varady, N. Shivappa, J.R. Hebert, D.A. Bennett and M.C. Morris. Rush Univ. Med. Ctr.; Univ. of Illinois at Chicago and Univ. of South Carolina.

**C161 II 589.2** In-Home Food Supply among Elderly Home-Delivered Meal Recipients with High Blood Pressure or Diabetes C. Byrd-Bredbenner, R.M. McWilliams, A. Senger-Mersich, C.L. Cuite and W.K. Hallman. Rutgers Univ.

**C162 II 589.3** Dietary Intake among Home-Delivered Meal Recipients before and after Receiving Meals B. Moore, S. Marceaux, B.J. Friedman and S. Crixell. Texas State Univ., San Marcos and Meals on Wheels and More, Austin.

**C163 I 589.4** Food Insecurity, Medication Non-adherence, and Inpatient Hospital Readmissions in Low-Income Older Medicare Beneficiaries in Need of Food Assistance E.L. Sattler, J.S. Lee and H.N. Young. Univ. of Georgia Col. of Family and Consumer Sci. and Col. of Pharm.


**C165 II 589.6** Use of Dietary Supplements in Individuals with Rheumatoid Arthritis B. Ward, L. Thomas, M. Kiely, Y. Yazici and K. Woolf. NYU Steinhardt and NYU Langone Med. Ctr.

**C166 I 589.7** Long-term Diet Patterns Associated with MMSE Scores in Filipino Women J.R.B. Borja, P.L. Duazo, M.V. Cinco and L.S. Adair. Univ. of San Carlos, Philippines and Univ. of North Carolina at Chapel Hill.

**C167 II 589.8** An Examination of Nutritional Status and Acculturation among Chinese Senior Immigrants Living in Northern Virginia M. Dong, Y. Sun and L. Pawloski. George Mason Univ. and Zhongshan Polytech, China.

**C168 I 589.9** Lifetime Cognitive Dietary Restraint in Postmenopausal Women: Associations with Weight, Weight Perceptions and Social Physique Anxiety S.I. Barr and C.A. Rideout. Univ. of British Columbia.

**C169 II 589.10** Assessment of Individuals with Rheumatoid Arthritis Using the Healthy Eating Index 2010 L. Thomas, B. Ward, M. Tsai, T. Fazio, N. Lam, J. Buiris, M. Kiely, Y. Yazici and K. Woolf. NYU Steinhardt and NYU Langone Med. Ctr.


C178 I 590.7 The Impact of Weight Loss on Quality of Life in Overweight Women with Irregular Menses A.W. Lin, B.Y. Jarrett and M.E. Lujan. Cornell Univ.

C179 II 590.8 Dietary Quality in Nulliparous Women Planning Pregnancy: Results from the ISIS Study P.Y. Hsiao, J.L. Fung, D.C. Mitchell, T.J. Hartman and M.B. Goldman. Indiana Univ. of Pennsylvania; Geisel Sch. of Med., Dartmouth Col.; Penn State and Emory Univ.

C180 I 590.9 Excessive Gestational Weight Gain Affects Risk of Overweight/Obesity among Low Income Women E. Metallinos-Katsaras, R. Colchamiro and E. Siu. Simmons Col. and MA Dept. of Publ. Hlth., Boston.


C186 I 591.1 Ancient Whole Grain Gluten-Free Egg-Free Tefl, Buckwheat, Quinoa and Amaranth Pasta T.S. Kahlon and M-C.M. Chiu. USDA, USDA, Albany, CA.

C187 II 591.2 Whole Grain Gluten-Free Vegetable Spicy Snacks T.S. Kahlon and M-C.M. Chiu. USDA, Albany, CA.

C188 I 591.3 Genetic Variants in GLUT14 Gene Enhance Susceptibility to Inflammatory Bowel Disease M. Amir Shaghaghi, C.N. Bernstein and P. Eck. university of Manitoba.


592. MEDICAL NUTRITION COUNCIL: PRENATAL NUTRITIONAL PROGRAMMING IN HUMANS

Poster
(Sponsored by: Medical Nutrition Council (MNC))

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)


593. NUTRITION IMMUNOLOGY: NUTRITIONAL IMMUNOLOGY

Poster
(Sponsored by: Nutritional Immunology RIS)

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)


C196 II 593.2 Immune Response to a Salmonella Enteritidis Infection in Chicks Fed Different Immunomodulatory Nutrients E.L. Wils-Plotz and K.C. Klassing. Univ. of California, Davis.
SUNDAY  

C197 I 593.3 Immunomodulation of Innate Immune Cells by *Sutherlandia frutescens*: A Transcriptomic Analyses  


C199 I 593.5 The Suppressive Effects of Indole-3-Carbinol/3,3’ Diindolylmethane on LPS-Induced IL1 Release May Be Associated with Changes in CD84 in THP-1 Monocytes Y.S. Kim and T.T.Y. Wang. NCI, NIH, Rockville and USDA, Beltsville, MD.

C200 II 593.6 Effects of Arginine, Citrulline and Glutamine in Intestinal Ischemia and Reperfusion-Induced Immune Disorders H.-C. Lo and C-H. Lee. Fu Jen Catholic Univ. and Changhua Christian Hosp., Taiwan.

C201 I 593.7 Immuno-Stimulatory Activities of a Blend Of Natural Extracts in Human Immune Cells H. Wang and B. Dagg. Shaklee Corp., Pleasanton, CA.


C204 II 593.10 Epigallocatechin-3-Gallate (EGCG) Inhibits Murine CD4+ T cell Division and Cell Cycle Progression through Modulating Cell Cycle Related-Proteins J. Wang, X. Niu, S.N. Meydani and D. Wu. USDA at Tufts Univ.


C208 II 593.14 Anti-allergic Effect of Ramalina from *Ramalina terebrata* in TNF-α-Stimulated HaCaT and RBL-2H3 Cells Y.J. Jang and S. Pyo. Sch. of Pharm., Sungkyunkwan Univ., South Korea.


C210 II 594.1 Useful Correlates of Body Weight and Food Perception A.K. Thaw and W.A. Brewer. Millsaps Col., MS.


C213 I 594.4 One in Every Five Women Misperceived Body Mass in a Sample of Young Adult and Mid-life Women Enrolled in a Weight Gain Prevention Intervention C.J. Metzgar and S.M. Nickols-Richardson. Univ. of Illinois, Urbana.


C215 I 594.6 Weight Loss with Liquid Formula Diets in Obese Patients with and without Diabetes W.S. Leslie, R. Taylor and M.E.J. Lean. Sch. of Med., Univ. of Glasgow and Newcastle Univ., U.K.

C216 II 594.7 Increased Skim Milk Consumption Reduces Uricemia, Body Fat, and Body Weight in Excess Body Weight Women Pursuing Energy-Restricted Diet R.C. Alfenas, F.G. Cândido, R.D.M. Alfenas and D.M.O. Freitas. Fed. Univ. of Viçosa, Brazil.


C218 II 594.9 Self-Weighing Increases Weight Loss in Free-Living Adults: A Double-Blind Randomized Field Trial among 200,000 Health App Users S. Novello, S.B. Cash and W.A. Masters. Friedman Sch. of Nutr. Sci. and Policy, Tufts Univ.


595. ENERGY AND MACRONUTRIENT METABOLISM: OBESITY AND THE METABOLIC SYNDROME

Poster

(Sponsored by: Energy & Macronutrient Metabolism RIS)
(Cosponsored by: Obesity RIS)

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM—1:45 PM (I); 1:45 PM—2:45 PM (II)


C224 | 595.2 Effects of Extra-Virgin Olive Oil and Fish Oil on Lipid Profile and Oxidative Stress in Patients with Metabolic Syndrome. I. Dichi, D. Venturini, M.R. Urbano and A.C. Simão. Univ. of Londrina, Brazil.


C227 | 595.5 Endocrine Modulators of Mouse Subcutaneous Adipose Tissue Beige Adipocyte Markers. R.A. García García, K.J. Claycombe and J.N. Roemmich. USDA, Grand Forks.

C228 | 595.6 Effects of a Diet-Based Weight-Reducing Intervention in Obese Women Resistant to Weight Loss. S. Panahi, C. Couture, C. Lepage, V. Drapeau and A. Tremblay. Laval Univ., Quebec City.


C234 | 595.12 Marine Sources but Not Plant Sources of Omega-3 Fatty Acids Prevents Progression of Hepatic Steatosis in Zucker Rats. L. Hong, P. Zahradka and C.G. Taylor. Univ. of Manitoba.


C239 | 595.17 Impaired mTOR Regulation of Lipolysis in Lipocalin-2 Deficient Adipocytes. J. Deis, H. Guo and X. Chen. Univ. of Minnesota.


C244 | 595.22 Effects of Milk Protein Concentrate on Energy Restriction-Induced Changes in Body Composition and Indices of Metabolic Syndrome. J. Zhou, J.E. Kim and W.W. Campbell. Purdue Univ.
C245  I  595.23 Serum Uric Acid Levels and Metabolic Syndrome in Elementary School Children with Obesity from Nuevo León, Mexico E.S. Perez, M.A.G. Medina, M.L-C. Lomeli, F.J.L. González, V. Imran, S. Juma, P. Vijayagopal and C. Prasad. Sch. of Publ. Hlth. and Nutr., Autonomous Univ. of Nuevo León and Texas Women’s Univ.

C246  II  595.24 Expression and Cellular Distribution of SLC30A Zinc Transporter Family Members in Human Normal and Diabetic Pancreatic islets and in Human Insulin-Secreting B-Cells L. Huang and C. Kirschke. USDA, Davis and Univ. of California, Davis.

C247  I  595.25 Disassociation between Knowledge and Behaviors Related to Body Weight Status of Adults in Kentucky C. Wang, L. Huang and C. Butler. Col. of Agr., Food Sci. and Sustainable Sysys., Kentucky State Univ.


C253  I  595.31 Influence of High Fat Diet on Macrophage Behavior and Metabolic Processes in Obesity-Sensitive and -Resistant Mice: Role of Monocyte Chemoattractant Protein 1 T.L. Cranford, R.T. Enos, K.T. Velazquez, J.L. McClellan, M. Nagarkatti and E.A. Murphy. Univ. of South Carolina Sch. of Med.


C255  I  596.2 Withdrawn.

C256  II  596.3 Glycemic Effect of Nutritive Sweeteners: Honey, Sugar and High Fructose Corn Syrup S. Raatz, K. Beals, L. Johnson and M. Picklo. USDA, Grand Forks ; Univ. of Minnesota, Minneapolis and Univ. of Utah.

C257  II  596.4 Moving to a Broader Concept of Quality of Glycemic Carbohydrates A.H-M. Lin, B-H. Lee and B. Hamaker. Univ. of Idaho Sch. of Food Sci. and Purdue Univ.


C259  I  596.6 Has Honey Different Short-Term Metabolic Effects Than Glucose:Fructose Mixtures? A Pilot Human Study C. Despland, V. Campos, B. Walther, C. Kast and L. Tappy. Univ. of Lausanne and Agroscope, Bern.

C260  II  596.7 Retinoic Acid Synergizes with Insulin to Induce Glucose Disposal in L6 Rat Skeletal Muscle Cells M. Goff and G. Chen. Univ. of Tennessee, Knoxville.

C261  I  596.8 Dietary Glucogenesis by Mucosal α-Glucosidase Is Influenced by the Internal Molecular Structure of Starch Hydrolysates A. Muniandy and A. Lin. Bi-State Sch. of Food Sci., Univ. of Idaho and Washington State Univ.


Are You Tweeting About EB 2015?
To Tweet use #expbio

Be sure to follow EB on Facebook and Twitter.

Poster Presenters: Upload Your Poster

Where: E-Poster Counter, Lobby D
Deadline: Wed., April 1, 3:00 PM

Uploaded posters will be available online to all registered attendees following the meeting at www.experimentalbiology.org

207


C270 II 596.17 Acute Ingestive Effects of Agave Nectar versus Sucrose in Healthy Young Adults. A. Cravinho, M. Hammon, K. Rieger and M. Kern. San Diego State Univ.

C271 I 596.18 Protein Synthesis Controls the Activity of Maltase-Glucoamylase and Sucrase-Isomaltase in Non-intestinal Tissues. R. Quezada-Calvillo, M. Simsek, J. Juarez and B.L. Nichols. Autonomous Univ. of San Luis Potosi, Mexico; Purdue Univ. and Baylor Col. of Med.

597. ENERGY AND MACRONUTRIENT METABOLISM: DIET AND/OR EXERCISE REGULATION OF FOOD INTAKE

Poster

(Sponsored by: Energy & Macronutrient Metabolism RIS)
(Cosponsored by: Obesity RIS)

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM—1:45 PM (I); 1:45 PM—2:45 PM (II)


C274 II 597.3 Prebiotic Fiber Consumption Decreases Energy Intake in Overweight and Obese Children. M. Hume, A. Nicolucci and R. Reimer. Univ. of Calgary

C275 I 597.4 The Impact of Beverages Varying in Macronutrient Content on Appetite and Energy Intake. A. Dougkas and E. Östman. Lund Univ.

C276 II 597.5 Factors Responsible for National School Lunch Program Participants’ Entree Selections. V. Haley-Zitlin, J.G. Peckham, J.D. Kropp, E. Granberg, A. Anderson and T. Mroz. Clemson Univ.; FDA; Univ. of Florida and Univ. of Georgia.


C281 I 597.10 A Higher Number of Eating Episodes Is Associated with Lower Dietary Energy Density and Better Diet Quality in American Adults. J. Hollis and Y. Zhu. Iowa State Univ. and Univ. of Iowa.


598. ENERGY AND MACRONUTRIENT METABOLISM: DIETARY FATTY ACIDS AND HEALTH

Poster

(Sponsored by: Energy & Macronutrient Metabolism RIS)

Sun. 7:30 am—Boston Convention & Exhibition Center, Exhibit Halls A & B

Presentation time: 12:45 pm–1:45 pm (I); 1:45 pm–2:45 pm (II)

C286 II 598.1 Effect of A Single Dose of Emulsified Versus Capsular Fish Oils on Plasma Phospholipid Fatty Acids Over 48 Hours S.K. Raatz, L.K. Johnson and D.M. Bibus. USDA, Grand Forks; Univ. of Minnesota, Minneapolis and Lipid Technol., Austin, MN.

C287 I 598.2 Adipokine Production in Mice Fed High-Fat Diets Containing Different Types of Dietary Fats L.Yan and W-R. Lie. USDA, Grand Forks and EMD Millipore Corp.


C289 I 598.4 Silkworm Pupa Oil Exerts Hypolipidemic and Antioxidative Effects on Rat Model of High-Fat Diet Induced Hyperlipidemia Y. Zou, Y. Shi, J. Liu, L-X. Mu and S-T. Liao. Sericult. & Agri-Food Res. Inst., Guangzhou, China.

C290 II 598.5 Effect of High Concentration Lipid Diet Supplemented with n-3 PUFA, on Serum Fatty Acid Profiles of Growing Rats P.D. Perris, C. Silva, I. Fernandez, N. Slobodianik and M.S. Feliu. Fac. of Pharm. and Biochem., Univ. of Buenos Aires.


C293 I 598.8 Association between Fatty Acid Status and Executive Function in Tanzanian Children Aged 2-6 T. Jumbe, S. Hahn, W.S. Harris, J. Kinabo, M. Pontifex and J.I. Fenton. Michigan State Univ.; Univ. of South Dakota and OmegaQuant Analytics, LLC and Sokoine Univ. of Agr., Tanzania.


C295 I 598.10 Sulfidogenic Bacteria Abundance in Colonic Mucosa Is Positively Correlated with Milk and Animal Fat Intake and Negatively Correlated with Mono- and Polyunsaturated Fatty Acids P.G. Wolf, P. Cummings, N. Shah, H.R. Gaskins and E. Mutlu. Univ. of Illinois at Urbana-Champaign and Rush Univ.

C296 II 598.11 High Oleic Sunflower Oil Alters the Proportions of n-6 and n-3 Polyunsaturated Fatty Acids in Young and Aging C57BL/6 Heart Tissue J.Y. Zhang, E. Kim, P. Lawrence, K.S. Kothapalli and J. Brenna. Cornell Univ.


C300 II 598.15 Pinolenic Acid Downregulates Anabolic Pathway of Lipid Metabolism in HepG2 Cells A.R. Lee and S.N. Han. Seoul Natl. Univ.


599. ENERGY AND MACRONUTRIENT METABOLISM: PROTEIN INTAKE AND HEALTH IMPLICATIONS

Poster

(Sponsored by: Energy & Macronutrient Metabolism RIS)

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)

C309  I  599.1  The Effects of Consuming High Protein Solid versus Beverage Breakfasts on Changes in Body Weight and Body Composition in Overweight, Breakfast Skipping Adolescents  J.A. Gwin and H.J. Leidy. Univ. of Missouri-Columbia.

C310  II  599.2  Protein Status Modulates the Hedonic Value of Protein Meals in Rat  C. Chaumontet, I. Recio, N. Darcel, G. Fromentin and D. Tome. AgroParisTech.

C311  III  599.3  The Effect of Breakfast Protein Source on Postprandial Hunger and Glucose Response in Women  C.M. Crowder, B.L. Neumann, D.L. Johnson and J.I. Baum. Univ. of Arkansas.


C313  III  599.5  Protein Sources, Nutrient Adequacy and Diet Quality  M.C. Karlsen, L.M. Troy, G. Rogers, J.T. Dwyer, N. McKeown and P.F. Jacques. USDA at Tufts Univ.; Friedman Sch. of Nutr., Tufts Univ; Univ. of Massachusetts Amherst; Tufts Med. Ctr and ODS, NIH.

600. OBESITY: DIET, DEVICES, MEDICATIONS AND SURGERY

Poster

(Sponsored by: Obesity RIS)

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)


C316  II  600.3  Effects of Roux-en-Y Gastric Bypass on Sugar-Induced Hypertriglyceridemia  A. Surowska, S. De Giorgi, F. Theytaz, V. Lecoulte, V. Campos, V. Giusti and L. Tappy. Univ. of Lausanne and Broye Intercantonal Hosp.

C317  I  600.4  Long-Term Health Related Quality of Life Outcomes of Patients Who Have Undergone Bariatric Surgery with the Biliary Pancreatic Diversion with Duodenal Switch  M. Nirmalraj and B. Khandalavala. Univ. of Nebraska Med. Ctr.


601. OBESITY: GUT MICROBIOME AND OBESITY

Poster

(Sponsored by: Obesity RIS)

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)


C323  I  601.5  Dietary Fat Intake and Age Influence Gut Microbiota and Colonic Inflammation in C57BL/6J Mice  M-K. Sung, S-J. Kim, M-Y. Park and S-E. Kim. Sookmyung Women’s Univ. and Grad. Sch. of Educ. Soochunhyang Univ., South Korea.


602. OBESITY: CHRONIC DISEASES

Poster

(Sponsored by: Obesity RIS)

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)

C326 II 602.1 Diet Associations with Sleep and Fatigue among Truck Drivers: Baseline Results from the SHIFT Randomized Controlled Trial S. Thompson, E. Hohn, B. Wipfli and R. Olson. Oregon Hlth. & Sci. Univ. and DW Block Assocs. LLC, Bainbridge Island, WA.


C328 II 602.3 Obesity Significantly Intensifies the Depressive Symptom among Adults with Neck or Back Pain W. Lawrence, A. Badana, G. Barnett, J. Sexton, K. Oliver, J. Hoggess and J. Zhang. Jiaan-Ping Hsu Col. of Publ. Hlth. at Georgia Southern Univ.


C330 II 602.5 A randomized control trial of sugar-sweetened and artificially sweetened beverages and intrahepatic fat in overweight subjects V. Campos, C. Despland, P. Schneider, V. Brandejsky, R. Kreis, C. Boesch and L. Tappy. Univ. of Lausanne and Univ. of Bern.

C331 I 602.6 Effect of Defatted Pepper Seed Extracts on High-fat Diet-Induced Obesity in Mice J. Sung and J. Lee. Chungbuk Natl. Univ., South Kores.

C332 II 602.7 Monounsaturated Fatty Acid High-Fat Diets Impede Adipose IL-1β Secretion and Insulin Resistance H. Roche, O. Finucane, C. Lyons, A. Murphy, C. Reynolds, N. Healy, A. Tierney, M. Morine, J. Alcala-Diaz, J. Lopez-Miranda, L. O’Neill and F. McIlgliccuddy. University Col. Dublin; Trinity Col. Dublin; La Trobe Univ., Australia; Univ. of Trento, Italy and Univ. of Cordoba, Spain.


C334 II 602.9 Quinoa Protective Effects against Obesity-Induced Intestinal Inflammation G. Noratto, R. Carrion-Rabanal, G. Medina, A. Mencia, I. Mohanty, D. Gonzalez and K. Murphy, Washington State Univ. and Natl. Univ. of Tucuman, Argentina.


C341 I 602.16 Body Weight Status Are Associated with Biomarkers of Inflammation and Bone Turnover in Former Smokers S.G. Lee, T.M. Vance, P. Hubert, L. Xie, B. Kim, J. Lee, B.W. Boling, S-K. Lee and O.K. Chun. Univ. of Connecticut; Univ. of Wisconsin-Madison and Univ. of Connecticut Hlth. Ctr.

603. CARIG: CAROTENOIDS AND HEALTH/ CAROTENOIDS AND RETINOIDS MOLECULAR MECHANISMS OF ACTION

Poster

(Sponsored by: Carotenoid and Retinoid Interactive Group (CARIG) RIS)

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)

C342 II 603.1 β-Cryptoxanthin and Its Cleavage Metabolite, 3-OH-β-Apo-10′-Carotenal, Can Inhibit LPS-Induced Inflammatory Responses in Human Bronchial Epithelial Cells K-Q. Hu, J.R. Mein and X-D. Wang. USDA at Tufts Univ.

C343 I 603.2 Lycopene Supplementation and Oxidation: A Metaregression Analysis of Lag Time to Absorption C. Minto, M.G. Vecchio and D. Gregori. Univ. of Padua and Zeta Res. Ltd., Trieste, Italy.

C344 II 603.3 Uncertain Effects of Beta-Carotene Supplementation on Oxidation: A Meta-Regression Analysis of Lag Time to Absorption M.G. Vecchio, C. Minto and D. Gregori. Zeta Res. Ltd., Trieste, Italy and Univ. of Padua.

C345 I 603.4 No Evidence of the Effects of beta-Carotene Supplementation on Reducing Risk of Type-II Diabetes: A Metanlysis C. Minto, M.G. Vecchio and D. Gregori. Univ. of Padua and Zeta Res. Ltd., Trieste.


C347 I 603.6 Lutein Accretion Corresponds to Activity of Metabolic Pathways during Brain Development J.C. Lieblein-Boff, E.J. Johnson, A.D. Kennedy, C-S. Lai and M.J. Kuchan. Abbott Nutr., Columbus; USDA at Tufts Univ. and Metabolon Inc., Durham, NC.
604. CARIG: BIOAVAILABILITY AND METABOLISM OF CAROTENOIDS AND VITAMIN A

Poster

(Sponsored by: Carotenoid and Retinoid Interactive Group (CARIG) RIS)

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)


C353 III 604.4 β-Carotene Bioconversion Is Similar in Men and Women G. Lietz, A. Oxley, P. Berry, J. Hesketh, F. Tourniaire, H. Park, M.H. Green and A.V. Boddy, Newcastle Univ.; INRA, UMR 1260, Marseille; ICAN, Seoul and Penn State


C355 III 604.6 Effects of Acute UVB on Retinoid Metabolism K.L. Gressel, T.M. Oberyszyn and H.B. Everts. The Ohio State Univ.


605. CARIG: BIOFORTIFICATION OF STAPLE CROPS WITH MICRONUTRIENTS

Poster

(Sponsored by: Carotenoid and Retinoid Interactive Group (CARIG) RIS)

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)


C363 I 605.3 Quantifying the Bioefficacy of β-Carotene-Biofortified Sorghum Using a Mongolian Gerbil Model H. You, Y. Zhang, Z-Y. Zhao, P. Che, M.C. Albertsen, K. Glassman and W.S. White. Iowa State Univ. and DuPont Pioneer, Johnston, IA.

C364 II 605.4 Examining the Causal Effects of Changes in Iron Status on Brain and Attentional Functioning Using Structural Equation Modeling M.J. Wenger, S.E. Rhoten, S.P. Scott, L.E. Murray-Kolb and J.D. Haas. Univ. of Oklahoma; Cornell Univ. and Penn State


NUTRITION SUNDAY
606. DIETARY BIOACTIVE COMPONENTS: BIOAVAILABILITY, METABOLISM AND BIOMARKERS OF DIETARY BIOACTIVE COMPONENTS

Poster

(Sponsored by: Dietary Bioactive Components RIS)

SUN. 7:30 AM — BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)


C368 II 606.1 In Vitro Batch Fermentation Analysis of Wheat Dextrin and Partially Hydrolyzed Guar Gum – Fermentation Kinetics and Prebiotics Effects J.L. Carlson, J. Slavin, P. Deng, K. Swanson and A. Hospattankar. Univ. of Minnesota, Minneapolis; Univ. of Illinois at Urbana-Champaign and Novartis Consumer Hlth. Inc., Parsippany, NJ.


C373 I 606.6 Potato Phenolics Modulate Rate of Glucose Transport in a Caco-2 Human Intestinal Cell Model S.E. Moser, I. Aragon, A. Furrer, J. Van Klinken, M. Kaczmarczyk, B-H. Lee, B. Hamaker and M.G. Ferruzzi. Purdue Univ. and PepsiCo Global R&D.


607. DIETARY BIOACTIVE COMPONENTS:
MECHANISMS OF ACTION AND
MOLECULAR TARGETS OF DIETARY
BIOACTIVE COMPONENTS

Poster

(Sponsored by: Dietary Bioactive Components RIS)

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER,
EXHIBIT HALLS A & B

Presentation time: 12:45 PM—1:45 PM (I); 1:45 PM—2:45 PM (II)

C386 II 607.19 Tracking Isoflavones in Whole Soy
Flour, Soy Muffins and Plasma after Consumption of Muffins
by Healthy Adults E.M.T. Padhi, A. Hawke, R. Liu, H. Zhu,
A.M. Duncan, R. Tsao and D.D. Ramdath. Agr. and Agri-Food
Canada, Guelph and Univ. of Guelph.

C387 I 607.20 Pomegranate Juice Altered Lifespan
and Intestinal Fat Deposition in Ceanorhabditis elegans Model
Organism J. Zheng, M. Wang, C. Gao, S.B. Heysmfield,
R.J. Martin, M.J. Keenan, J.W. Finley, F.L. Greenway, F.M.
Enright and Z. Li. LSU Sch. of Nutr. and Food Sci.; LSU Col.

607. DIETARY BIOACTIVE COMPONENTS:
MECHANISMS OF ACTION AND
MOLECULAR TARGETS OF DIETARY
BIOACTIVE COMPONENTS

C388 I 607.1 A Natural Herbal Beverage Exhibits
Significant Cytoprotection and Promotes Nr-2 Activation
in Cells E. Gumpricht, R. Kumar, A. Hussain, A. Sabarwal, A.
Ramteke, S. Cho and G. Deep. Isagenix Intl. LLC and Univ. of
Colorado Sch. of Pharm. and Pharmaceut. Sci.

C389 II 607.2 Aqueous Cinnamon Extract Protects
against Oxygen-Glucose Depivation-Induced Damage in
bEnd.3 Cells B. Qin, A. Zhao, C. Liu and R. Anderson. Univ.
of Maryland Sch. of Med.; USDA, Beltsville; IN-Ingredients.
com, TN and Jiangsu Province Hosp., Nanjing.

C390 I 607.3 Phenolic Extracts of Cranberry
Positively Modulate Endogenous Antioxidant Defenses and
Signalling Pathways against Oxidative Challenge C. Khoo,
M.A. Martin, S. Ramos, R. Mateos, L. Bravo, J. Marais and L.
Goya. Ocean Spray Cranberries Inc., Lakeville, MA and Inst. of
Food Sci., Technol. and Nutr., CSIC, Madrid.

C391 II 607.4 Microbial Metabolite Butyrate
Suppresses Murine Mast Cell Activation H. Zhang, M. Du, Y.
Xue, Q. Yang and M. Zhu. Washington State Univ. and Univ. of
Idaho Sch. of Food Sci.

C392 I 607.5 Bitter Melon Improves Glycemic Control
and Inflammation in Adipose Tissue of Obese and Diabetic
Rats E. Chang, J.M. Choi, L. Kim and C-Y. Park. Ewha
Womans Univ. and Kangbuk Samsung Hosp., Sungkyunkwan
Univ. Sch. of Med., South Korea.

C393 II 607.6 1′-Acetoxychavicol Acetate Accelerates
Human Skin Wound Healing A. Mori, K. Sugawara, D.Tsuruta,
I. Matsui-Yuasa and A. Kojima-Yuasa. Grad. Sch. of Human
Life Sci., Osaka City Univ. and Grad. Sch. of Med., Osaka
City Univ.

C394 I 607.7 t.t-Farnesol as a Mevalonate-Derived
Inducer of Murine 3T3-F442A Preadipocyte Differentiation S.
Torabi and H. Mo. Texas Woman’s Univ. and Byrdine F. Lewis
Sch. of Nursing and Hlth. Professions, Georgia State Univ.

C395 II 607.8 The Combination of Docosahexaenoic
Acid and Regorafenib Synergistically Inhibits Colon
Cancer Cell Growth X. Cai, G. Zhang and H. Xiao. Univ. of
Massachusetts Amherst.

C396 I 607.9 Use of a Fluorometric Microplate Assay
to Assess the Activity of Prebiotics and Probiotics against
Uropathogenic E. coli Adherence to Human Uroepithelial Cells
L.L. Kimble, B.D. Mathison and B.P. Chew. Sch. of Food Sci.,
Washington State Univ.

C397 II 607.10 Assessment of the Activity of Prebiotics
and Probiotics against E. coli O157:H7 Adherence to Human
Colonicocytes Using a Fluorometric Microplate Assay L.L.
Kimble, B.D. Mathison and B.P. Chew. Sch. of Food Sci.,
Washington State Univ.

C398 I 607.11 Peptides in Common Bean Protein
Hydrolsates Inhibit Molecular Target Enzymes in Type-
2 Diabetes L. Mojica and E. Gonzalez de Mejia. Univ. of
Illinois, Urbana.

C399 II 607.12 Neuroprotective Effects of Hexane- and
Methylene Chloride-Soluble Fractions of Salicornia herbacea
L. in Mouse Hippocampal HT22 Cells M.S. Kim, J.Y. Seo, M.H.
Kim, J.E. Woo, S.J. Kang, G.R. Jo, H-K. Ji, Z. Erdenebileg,
J.H. Jang, J-S. Kim, H.J. Suh and J-S. Kim. Sch. of Food Sci. and
Biotecnol., Kyungpook Natl. Univ.; Podomaul Co. Ltd.,
Daegu and Gyeongbuk Nat. Color Indust. Inst., Youngcheon,
South Korea.

C400 I 607.13 Molecular Analysis of Cholestyramine
Treatment in Hamster Model Identified CYP51 as
Cholestyramine-Responsive Gene H. Huang, Z. Xie, W.
Yokoyama, L. Yu and T.T.Y. Wang. Univ. of Maryland College
Park and USDA, Beltsville.

C401 II 607.14 Dietary Fat Composition on Postprandial
Systemic Markers of Inflammation and Metabolism J. Hollis, J.
Lyte and N. Gabler. Iowa State Univ.

C402 I 607.15 Influence of Spice and Grape Pomace
Extracts on Migraine-Related Indicators In Vitro M. Slavin,
J. Bourguignon, K. Jackson and M-A. Orciga. George Mason
Univ.

C403 II 607.16 Piperlongumine Enhances
Chemotherapy-Induced Pancreatic Cancer Cell Death H.
Dhillon and K. Reindl. North Dakota State Univ.

C404 I 607.17 Bradford Hill Criteria and the Case for
γ-Tocopherol as an Essential Dietary Nutrient in the Prevention
of Nitrogen Oxide-Mediated Cellular Damage and Associated
Chronic Diseases of Aging. R.V. Cooney and K.E. Schuller.
Univ. of Hawaii at Manoa.

C405 II 607.18 Shikonin Prevents Adipogenic
Differentiation by Inhibiting Mir-34a Y. Jang, J. Ahn, C-H.

C406 I 607.19 Gamma-Tocotrienol Inhibits Cytokine-
Stimulated NF-κB Activation by Inducing A20 and Modulating
Purdue Univ. and UCSF.

C407 II 607.20 Formononetin Enhances the
Expression of Genes Related to Adipocyte Differentiation and
Insulin Sensitivity S-Y. Yu, Y. Choi, Y-I. Kwon, R. Wood and
Y-C. Kim. Univ. of Massachusetts Amherst and Hannam Univ.,
South Korea.
C408 I 607.21 Quercetin Impacts ETC/OXPHOS Activities in Isolated Hepatic Mitochondria of Mice X. Guo, L. Wu, S. Clarke and D. Lin. Oklahoma State Univ.


608. DIETARY BIOACTIVE COMPONENTS: EFFECTS OF DIETARY BIOACTIVE COMPONENTS ON EXPERIMENTAL MODELS OF CHRONIC DISEASE RISK

Poster

(Sponsored by: Dietary Bioactive Components RIS)

SUN, 7:30 am—BOSTON CONVENTION & EXHIBITION CENTER, EXHIB HALLS A & B

Presentation time: 12:45 PM–1:45 PM (l); 1:45 PM–2:45 PM (l)


C411 I 608.2 BV-2 Microglial Cells Used in a Model of Neuroinflammation K. Ackerman, J. Fiddler, T. Soh and S. Clarke. Russell Sage Col., NY and Oklahoma State Univ.


C413 I 608.4 California Table Grape Consumption Reduces Adiposity, Hepatic Triglycerides, Lipogenic Gene Expression, and Abundance of Sulfidogenic Bacteria in Mice Fed Butter Fat J. Baldwin, B. Collins, P. Wolfe, W. Shen, C-C. Chuang, W. Zhong, P. Cooney, H.R. Gaskins and M. McIntosh. Univ. of North Carolina at Greensboro; Univ. of Illinois at Urbana-Champaign; Wake Forest Sch. of Med. and NCRC, Kannapolis, NC.


C425 I 608.16 Cranberry Phenolic Compounds Decrease Fat Accumulation in Caenorhabditis elegans Q. Sun, P. Shen, J. Yang and Y. Park. Univ of Massachusetts Amherst and Amherst Regional H.S.


C427 I 608.18 Strawberry and Raspberry Phenolics Reduce Fat Accumulation in Caenorhabditis elegans P. Shen, Q. Sun and Y. Park. Univ. of Massachusetts Amherst.

C428 II 608.19 Effects of Early Administration of Conjugated Linoleic Acid on Development of Obesity in NescentBasic Helix-Loop-Helix 2 Knockout Mice Y. Kim, D.J. Good and Y. Park. Univ. of Massachusetts Amherst and VPI and State Univ.

C429 I 608.20 Fermented Berry Beverage Phenolics Reduce Fat Mass and Fasting Blood Glucose in High-Fat Fed Mice M. Johnson and E. Gonzalez de Mejia. Univ. of Illinois, Urbana.

C430 II 608.21 Pectin Enhances Efficacy of Blidobacterium infantis against Disease Activity in Dextran Sulfate Sodium-Induced Colitis in Mice L.L. Kimble, T. Nguyen, B.D. Mathison and B.P. Chew. Washington State Univ.
**C431** 608.22 Polyphenols Extracted from Grape Powder Induce Lipogenesis and Glucose Uptake during Differentiation of Murine 3T3-F442A Preadipocytes S. Torabi and N.M. DiMarco. Texas Woman's Univ.


**C434** 608.25 Dairy-Derived Bioactive Fatty Acids Improve Pancreatic β-Cell Function J. Kraft, T.L. Jetton, B. Satish and D. Gupta. Univ. of Vermont.


**C436** 608.27 *Nigella sativa* Influences GLUT4 through the AMPK Pathway D. Acevedo, E. Varela, J. Guerra, J. Banu and S.M. Reyna. Univ. of Texas Hlth. Sci. Ctr. at San Antonio.


**C438** 608.29 Green Tea Extract Attenuates NFκB-Dependent Inflammatory Responses in Diet-Induced Obese Mice with Nonalcoholic Steatohepatitis by Lowering Expression of TNFR1 and TLR4 J. Li, T.N. Sapper, K.E. Schill, C. Chitchumroonchokchai, M.V. Moller, E. Mah and R.S. Bruno. The Ohio State Univ.


**C442** 608.33 Chronic Intake of Wild Blueberry Extract and Powder Maintains Episodic-Like and Working Memory during Normal Aging in Mice E. Fromentin, A. Krazem, N. Henkouss, M. Roller and D. Beracochea. NATUREX-DBS, U.S.; Univ. of Bordeaux and NATUREX SA, France.

**C443** 608.34 Probiotics Do Not Enhance Antihypertensive Effect of Blueberry Diets in Hypertensive Rats L. He, C. Blanton, K. Gottschall-Pass and M.J. Sweeney. Univ. of Prince Edward Island and Idaho State Univ.

**C444** 608.35 Whole Cranberry Powder Promotes Blidobacterium infantis Attenuation of Disease Activity in Dextran Sulfate Sodium-Induced Colitis in Mice T. Nguyen, L.L. Kimble, B.D. Mathison and B.P. Chew. Sch. of Food Sci., Washington State Univ. and Texas A&M Univ.


**C446** 608.37 In Vitro and In Vivo Protective Effect of Artemisia capillaris Extract on Osteoporosis through Regulation of Osteoclast Differentiation and Bone Resorption Activity H-D. Jang. Hannam Univ., South Korea.

---

**Visit the Exhibits**

**March 29 – March 31**

**Exhibit Hours**

**Sunday – Tuesday**

**9:00 AM – 4:00 PM**
Pathology

609. ENDOTHELIUM IN HEALTH AND DISEASE
Poster
SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER,
EXHIBIT HALLS A & B

Presentation time: 11:45–13:45


D364 609.3 Pneumococcal Protein PspA Facilitates Streptococcus pneumoniae-Induced Pyroptosis Y.J. Jung and S. Pyo. Sch. of Pharm., Sungkyunkwan Univ., South Korea.


D367 609.6 Molecular Mechanism of FXa Inhibition by Cufaxapin, the Main Salivary Anticoagulant of the West Nile Virus Vector Culex quinquefasciatus E. Calvo, A.C. Chagas, J.L. Ramirez and J.M.C. Ribeiro. NIAID, NIH.


610. BEYOND THE ENDOTHELIUM: VASCULAR WALL PATHOBIOLOGY
Poster
SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER,
EXHIBIT HALLS A & B

Presentation time: 11:45 AM–1:45 PM


611. LIVER PATHOBIOLOGY
Poster
SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER,
EXHIBIT HALLS A & B

Presentation time: 11:45 AM–1:45 PM


612. ENVIRONMENTAL AND TOXICOLOGICAL PATHOLOGY

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 11:45 AM–1:45 PM


D390 612.3 Carnitine Palmitoyltransferase 2 (CPT2) Inhibition in Rats and Dogs Resembles Inborn Human CPT2 Deficiency M.C. De Vera Mudry, M. Festag, J.-C. Hoflack and F. Cramerl. F. Hoffmann-La Roche Ltd., Basel.

D391 612.4 1- Exposure to Ambient Ozone Affects Circulating Progesterone Levels and Ovulation in Mice C.R. Caruso, N. Cabello, S. DiAngelo and P. Silveyra. Penn State Coll. of Med.


613. NEUROPATHOLOGY

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 11:45 AM–1:45 PM

D394 613.1 Oxidative Damage Is Correlated with Mitochondrial Autophagy G. Perry, E.A. Perry, P.I. Moreira, S. Correia, R.J. Castellani, X. Wang, H-g. Lee and X. Zhu. Univ. of Texas at San Antonio; Case Western Reserve Univ.; Univ. of Maryland Sch. of Med. and Univ. of Coimbra, Portugal.


D403 613.10 Visualization and Objective Quantification of Autonomic Circuitry in Mouse Aorta Postrema Using a Genetic Method H.N. Gokozan, S. Corcoran, C. Czeisler, P.E. Gygli, F.P. Catacutan, F. Baig and J.J. Otero. The Ohio State Univ.
614. TOLERANCE AND DEPENDENCE: DRUGS OF ABUSE

Poster

**Presentation time:** 12:30 PM–2:30 PM

D10 614.1 Naltrexone-Precipitated Opioid Withdrawal and Morphine-Tolerance in Buprenorphine- or Methadone-Treated Mice **C.A. Paronis.** McLean Hosp./Harvard Med. Sch. and Northeastern Univ.

D11 614.2 Mouse Cerebellar Neuronal Nicotinic Oxide Synthase Mediates Nicotine – THC Functional Antagonism and Cross-Tolerance **M.S. Dar.** Brody Sch. of Med. at East Carolina Univ.

D12 614.3 The onset and Decay of Heterologous Tolerance to Morphine after Subcutaneous Injection for Varying Lengths of Time **B.G. Thompson, J.M. McKeel and D.A. Taylor.** Brody Sch. of Med. at East Carolina Univ.

D13 614.4 Withdrawn.


D16 614.7 Convulsant effects of high efficacy synthetic cannabinoid JWH-018 in mice **K.D. Camper, C.O. Caperton, S. Tai and W.E. Fantegrossi.** Spelman Col., GA; Univ. of Arkansas at Little Rock and Univ. of Arkansas for Med. Sci.

615. BEHAVIORAL PHARMACOLOGY: GENERAL

Poster

**Presentation time:** 12:30 PM–2:30 PM

D17 615.1 Central Amygdala PACAP in the Behavioral Stress Response **M.P. Seiglie, A. Iemolo, A. Blasio, P. Cottone and V. Sabino.** Boston Univ. Sch. of Med.

D18 615.2 Use of Daniovision™ to Measure Activity in 3rd Instar *Drosophila melanogaster* Larvae **S. Graham, R.P. Rogers and R.H. Alper.** Univ. of Saint Joseph Sch. of Pharm., CT; Univ. of Saint Joseph and Wentworth Inst. of Technol., MA.

D19 615.3 Knockdown of the D2 Autoreceptor from the Ventral Tegmental Area Increases Temporal Impulsivity **K. Bernosky-Smith, Y. Qui, J-X. Li and C. Bass.** D’Youville Col. and Univ. at Buffalo, SUNY.

D20 615.4 Effects of Cyclic Nucleotide Phosphodiesterase 2 Inhibition on Object Recognition Memory in Mice **L.M. Lueptow, Y. Xu and J.M. O’Donnell.** West Virginia Univ. and Univ. at Buffalo, SUNY.

D21 615.5 Effects of Synthetic Cannabinoid JWH-018 and Phytocannabinoid Δ9-THC on Learning and Memory in Mice **C.O. Caperton, K.D. Camper, S. Tai and W.E. Fantegrossi.** Univ. of Arkansas at Little Rock; Spelman Col., GA and Univ. of Arkansas for Med. Sci.

D22 615.6 Pharmacological Treatment(?) of Sleep Problems in a Swedish Pediatric Setting **U. Holmähl and A. Forslund.** Upsala Univ.

D23 615.7 Effect of Repeated Exposure to Sleep Restriction on Interleukin 6 Levels in Humans **V.D. Bhatt, M. Diolombe, M. Haack and J. Mullington.** Beth Israel Deaconess Med. Ctr. and Harvard Med. Sch.


D25 615.9 Disruption of Normal Sleep Cycles in SULT4A1 Δ/Δ Mutant Zebratfish **F. Crittenden and C.N. Falany.** Univ. of Alabama at Birmingham.

616. PAIN THERAPEUTICS

Poster

**Presentation time:** 12:30 PM–2:30 PM

D26 616.1 Meta-analysis of General Anesthesia on Total Knee Angioplasty and Total Hip Angioplasty **J.Y. Tsai.** Col. of Osteo. Med. of Pacific, Western Univ. of Hlth. Sci.

D27 616.2 BU08028 Displays a Promising Therapeutic Profile as an Analgesic in Monkeys **H. Ding, P. Czoty, G. Cami-Kobeci, D. Sukhtankan, M. Nader, S. Husbands and M-C. Ko.** Wake Forest Sch. of Med. and Univ. of Bath.


D30 616.5 Evaluation of the Anti-Inflammatory and Analgesic Activities of Leaf-Extracts of *Sterculia tragacantha* in Rats **M.O. Abatan and O. Mogbojuri.** Univ. of Ibadan, Nigeria.

D31 616.6 A Guanidine Group Containing Dietary Supplement Inhibits ASIC3 **A.S. Agharkar, R.N. Smith and E.B. Gonzales.** Univ. of North Texas Hlth. Sci. Ctr.

D32 616.7 Anti-hyperalgesic Effects of Imidazoline I2 Receptor Ligands and Their Interactions with Opioids in a Rat Model of Inflammatory Pain **D.A. Thorn, Y. Zhang and J-X. Li.** Univ. at Buffalo and Res. Triangle Inst., NC.
617. NEUROPHARMACOLOGY OF SPINAL CORD INJURY

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:30 PM–2:30 PM


D39 616.14 Nicotine Increases Codeine Analgesia through the Induction of Brain CYP2D Central Activation of Codeine to Morphine D.M. McMillan and R.F. Tyndale. Ctr. for Addict. and Ment. Hlth., Toronto and Univ. of Toronto.

D40 617.1 B Cell-Targeted Therapy with Anti-CD20 Monoclonal Antibody Reduced Secondary Tissue Damage and Enhanced Behavioral Recovery following Experimental Spinal Cord Injury in Mice S. Cuzzocrea, D. Impellizzeri, G. Bruschetta, M. Cordaro, R. Crupi and E. Esposito. Univ. of Messina and Saint Louis Univ. Sch. of Med.


D42 617.3 Inhibition of Poly(ADP-Ribose) Polymerase Activity Modulates Autophagy Induced by Experimental Spinal Cord Trauma I. Paterniti, D. Impellizzeri, G. Bruschetta, M. Cordaro, R. Siracusa, S. Cuzzocrea and E. Esposito. Univ. of Messina and Saint Louis Univ. Sch. of Med.


618. HETERO TRIMERIC G PROTEIN AND SECOND MESSENGER SIGNALING

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:30 PM–2:30 PM


D47 618.3 The Molecular Requirements for the G Protein betagamma-SNARE Interaction Z. Zurawski, C.A. Wells, Y.Y. Yim, S. Alford and H. Hamm. Vanderbilt Univ. and Univ. of Illinois at Chicago.

D48 618.4 Characterization of Small Molecule Gβγ Inhibitors in the Context of Inflammation J.Y. To, J. Rangel-Moreno, T. Owen, J.H. Anolik and A.V. Smrcka. Univ. of Rochester.


D51 618.7 Identification of Small Molecule Inhibitors Selective for Type 1 Adenyl Cyclase T.F. Brust and V.J. Watts. Purdue Univ.

D52 618.8 Epac2 Mediates Cyclic AMP-Dependent Growth Arrest in NS-1 Cells Independently of Rap1 L.E. Eiden, M.V. Eiden and A.C. Emery. NIMH, NIH.

D53 618.9 PAC1-Gs Coupling through AC6 Mediates NCS/Rapgef2-Dependent ERK Activation in Neuroendocrine Cells A.C. Emery, M.V. Eiden and L.E. Eiden. NIMH, NIH.

D54 618.10 Rgs8-16 Are Required for Energy Homeostasis in Pancreatic Cancer-Associated Malnutrition Y. Zolghadri, O. Moreira, J.Y. To, J. Rangel-

619. GENE EXPRESSION

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:30 PM–2:30 PM


D64 619.3 Sunitinib Induces Growth Inhibition and Apoptosis in Breast Cancer MDA-MB-231 Cells through FOXO3a Signaling Pathway O.M. Belali, M.A. Ansari and H.M. Korashy. Col. of Pharm., King Saud Univ.


620. NANOFORMULATIONS IN DRUG THERAPY

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:30 PM–2:30 PM


621. OXIDATIVE STRESS

Poster

Sun. 7:30 AM—Boston Convention & Exhibition Center, Exhibit Halls A & B

Presentation time: 12:30 PM–2:30 PM

D89 621.1 In Vivo Evaluation of Two 5-Aminosalicylic Acid Derivatives Considered as Potential Therapeutic Agents M. Gutierrez Sanchez, M.C. Rosales Hernandez, I.J. Padilla Martinez, J. Correa Basurto and J.E. Mendieta Wejbe. ESM-IPN and UPibi-IPN, Mexico City.


623. HYPERTENSION AND BLOOD PRESSURE REGULATION

Poster

SUNDAY 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:30 PM–2:30 PM

D107 622.4 Triclosan Inhibits the Activity of Expressed Human Sulfotransferases towards Their Diagnostic Substrates M.O. James, S. Ambadapadi and C.N. Falany. Univ. of Florida and Univ. of Alabama at Birmingham.

D108 622.5 Cofactor Dependent Cooperation between Dimeric hSULT1B1 Subunits Z.E. Tibbs and C.N. Falany. Univ. of Alabama at Birmingham.

D109 622.6 Identifying the Structure-Function Activity of Human Cytosolic Sulfotransferase 1C4 A.L. Guidry and C.N. Falany. Univ. of Alabama at Birmingham.


D111 622.8 In Vitro Acetylation of Seven Anti-glaucoma Agents in Rat, Rabbit and Human Ocular and Liver S9 Fractions J.L. Bushee, C.E. Dunne and U.A. Argikar. Novartis, Cambridge, MA and Colorado State Univ.


624. HYPOTENSION

Poster

SUNDAY 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:30 PM–2:30 PM


D123 623.11 Ethanol Discontinuation Does Not Fully Reverse Its Chronic Effects on Blood Pressure, Heart Rate, and Their Variability in SHRs: Diurnally-Unrelated Effects M.M. El-Mas and A.A. Abdel-Rahman. East Carolina Univ.

223

625. ENDOTHELIAL CELL DYSFUNCTION – GENERAL

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:30 PM–2:30 PM

D132 625.1 Role of Krüppel-Like Factor (Klf4) in Pulmonary Fibrosis T. Perkins and K. Wary. Univ. of Illinois at Chicago.

D133 625.2 cAMP-Signaling via EPAC1 Mediates Vascular Endothelial Cell Adaptation to Fluid-Shear Stress S.N. Rampersad, F. Hubert, M.B. Umama, S. Freitag, N. Butler, P. Brzezinska, A. Wudwud and D.H. Maurice. Queen’s Univ., Canada.

D134 625.3 Myeloid Differentiation Factor-88 Deficiency Protects against Lipopolysaccharide-Induced Endothelial Dysfunction S.P. Didion, J.D. Sims and Z.K. Baldwin. Univ. of Mississippi Med. Ctr.

D135 625.4 Endothelial Focal Adhesion Kinase Transcriptionally Regulates S1P1 to Maintain Lung Vascular Barrier Function P. Yazbeck and D. Mehta. Univ. of Illinois at Chicago.

D136 625.5 Different Responses in CX3CL1/CX3CR1 and TNF-α/TNFRSF1A Signaling Pathways to Aspirin in Human Umbilical Vein Endothelial Cells D. Szukiewicz and A. Stangret. Med. Univ. of Warsaw.

D137 625.6 The Protective Role of Glutaredoxin-1 in Endothelial Barrier Regulation and Atherosclerosis J. Han, R.A. Cohen and R. Matsui. Boston Univ.


626. ENDOTHELIAL CELLS AND INFLAMMATION

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:30 PM–2:30 PM


D140 626.2 Simvastatin, Atorvastatin, and Pravastatin Equally Improve Cardiovascular Status in Diabetic Rats by Improving Endothelial Function, and Reducing Perivascular Fibrosis and Oxidative Stress J. Quigley, M.J. Crespo and N. Cruz. Univ. of Puerto Rico Sch. of Med.

D141 626.3 Increased Energy Expenditure Induced by Ptpt1b Deletion in Proopiomelanocortin Neurons Leads to Inflammation and Endothelial Dysfunction T. Bruder-Nascimento, K.K. Bene and E.J. Belin de Chanteleme. Georgia Regent Univ. and Univ. of Pennsylvania.

D142 626.4 Elementary Ca2+ Release Events through IP3 Receptors in the Intact Endothelium S.K. Sonkusare and M.T. Nelson. Univ. of Vermont.


D146 626.8 Tideglusib, an Allosteric Inhibitor of Glycogen Synthase Kinase-3β Increases Angiogenic Activities of Endothelial Cells J. Baruah and K.K. Wary. Univ. of Illinois at Chicago.

627. VASCULAR SIGNALING - ENDOTHELIUM

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:30 PM–2:30 PM

D147 627.1 The Contribution of Adenosine Receptor Subtypes to Vascular Tone in Mouse Pudenatal Artery H. Labazi, S.L. Tilley, C. Ledent and S.J. Mustafa. West Virginia Univ.; Univ. of North Carolina at Chapel Hill and Univ. Libre de Brussels.

D148 627.2 Gender Difference in Coronary Endothelial Dysfunction in ApoE Knockout Mouse Atherosclerosis Model: Role of NO and Adenosine Receptor X. Zhou, B. Teng and S.J. Mustafa. West Virginia Univ.


D151 627.5 ER-α Receptors Have More Prominent Depressor Role on Vasoconstrictive Sensitivity in Treated and Untreated Ovariectomized Rat Mesentery Artery T. Akhayeva and G. Ozansoy. Astana Med. Univ., Kazakhstan and Ankara Univ., Turkey.

D153 627.7 ADAM 17 Regulates S1PR1 Surface Expression by Its Ectodomain Sheding Thereby Disrupting Endothelial Barrier Function M.F. Uddin, S. Sukriti, B. Desai, A.B. Malik, A. Ludwig and D. Mehta. Univ. of Illinois at Chicago and RWTH Aachen Univ., Germany.

D154 627.8 Increased Role for Large Conductance, Calcium-Activated K Channels (BKCa) in Endothelium-Dependent Relaxation of Nitrate Tolerant Mesenteric Arteries M. Sane, A. Mughal, C. Sun and S. O’Rourke. North Dakota State Univ.


D158 627.12 Mechanisms of Uridine Adenosine Tetraphosphate (UpA)-Induced Contraction in Mice Aorta: Role of Thromboxane (TxA2) and Purinergic Receptors (P2R) Z. Zhou, C. Sun, S. Tilley and S.J. Mustafa. West Virginia Univ. and Univ. of North Carolina at Chapel Hill.


628. GI PHARMACOLOGY

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:30 PM–2:30 PM


D161 628.2 L-Type Calcium Channels Contribute to 5-HT3-Receptor-Evoked CaMKII and ERK Activation and Induction of Emesis in the Least Shrew (Cryptotis parva) N.A. Darmani, T.E. Hutchinson, W. Zhong and S. Chebolu. COMP, Western Univ. of Hitth. Scis.

D162 628.3 Transforming Non-ulcerogenic Stress Stimuli into Gastric Ulcerogenic Ones under the Circumstances of Inhibition of the Hypothalamic-Pituitary-Adrenocortical Axis L. Filaretova, M. Myazina and T. Bagaeva. Pavlov Inst. of Physiol., Russian Acad. of Sci., St. Petersburg.

D163 628.4 Regulation of Somatic Pain Sensitivity under the Circumstances of Indometacin-Induced Gastric Injury: Participation of Corticotropin-Releasing Factor L. Filaretova, T. Bagaeva and N. Yarushkina. Pavlov Inst. of Physiol., Russian Acad. of Sci.

D164 628.5 Acid Inhibitors Exacerbate H. pylori-Induced Gastritis Both In Vitro and In Vivo A. Yanaka. Univ. of Tsukuba, Japan.

D165 628.6 The Role of Toll-Like Receptor 4 in Enteric Glia S.M. Bhave, P. Brun, W.L. Dewey and H.I. Akbarali. Virginia Commonwealth Univ.


D167 628.8 A “Histodilutional Barrier” Formed in Gastric Mucosa by VEGF Pretreatment Protects Ethanol-Induced Hemorrhagic Gastric Erosions in Rats X. Deng, X. Xiong and S. Szabo. Univ. of California, Irvine and VA Med. Ctr., Long Beach.

D168 628.9 Inhibition of miR122a by Lactobacillus rhamnosus GG Culture Supernatant Increases Intestinal Occludin Expression and Protects Mice from Alcoholic Liver Disease L. Liu, C. Zhao, C. McClain and W. Feng. Univ. of Louisville.


D170 628.11 P21-Activated Kinase, a Novel Drug Target for the Treatment of Postoperative ileus K. Uray, D. Bhattarai and C.S. Cox. Univ. of Texas Med. Sch. at Houston.

D171 628.12 Chronic but Not Acute Exposure to Morphine Enhances nACHR Mediated Responses in Enteric Neurons A. Gade, I.J. Damaj, W.L. Dewey and H.I. Akbarali. Virginia Commonwealth Univ.


629. CANCER BIOLOGY AND PREVENTION

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:30 PM–2:30 PM


D175 629.2 Evaluation of CCR1 Antagonists on CCL3-Mediated Receptor Internalization A. Gilchrist and K.J. Cook. Midwestern Univ., IL.

D176 629.3 Silibinin Inhibits Glioblastoma Cell Proliferation via Akt/S6/4EBP1 and Stat3 Signaling Pathways In Vitro I. Us and K.E. Benzeroual. Long Island Univ.
D177 629.4 Transglutaminase 2 as a Possible Chemotherapeutic Target in Glioblastoma Multiforme A. Monteagudo, S. Gundemir, J. Keillor and G.V.W. Johnson. Univ. of Rochester and Univ. of Ottawa.

D178 629.5 The Zinc Finger Transcription Factor Mds1-Evi1 Forms a Novel Protein Complex in MLL Leukemia K. McGlynn, Y. Zhang and A. Perkins. Univ. of Rochester Med. Ctr.


D181 629.8 N-cadherin Upregulation and EMT Progression in As³⁺ and Cd²⁺-Transformed Urothelial Cells E. Sandquist, S. Somji, D. Sens and S. Garrett. Univ. of North Dakota Sch. of Med. and Hlth. Sci.

D182 629.9 Androgen Regulation of CXCR4/CXCR7 Chemokine Receptors: Disconnect between Transcription and Translation in Androgen-Responsive Prostate Cancer LNCaP Cells L. Yu, L. Yu and T.T.Y. Wang. Univ. of Maryland College Park and USDA, Beltsville.


D185 629.12 Opposite Angiogenic Outcome of Curcumin against Ischemia and Lewis Lung Cancer Models: In Silico, In Vitro and In Vivo Studies X. Li. Sch. of Basic Med. Sci., Peking Univ.


D190 629.17 Dysfunctions of the Abdominal Aorta and Renal Arteries in a Mouse Model of Neurofibromatosis Type 1 K. Jett, H. Chohan, J.Z. Cui, J.M. Friedman, C. van Breemen and M. Esfandiarei. Univ. of British Columbia and Midwestern Univ., AZ.


---

Visit the Exhibits
March 29 – March 31
Exhibit Hours
Sunday – Tuesday
9:00 AM – 4:00 PM
630. ANGIOGENESIS/ MICROVASCULAR REMODELING

Poster
(Sponsored by: The Microcirculatory Society)

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B32 630.5 Improved Recovery after Myocardial Ischemic Infarction by Copper Supplementation P. Han, X. Zhou, W. Zhang, Q. Peng, Y. Xiao, X. Sun, X. Zhao, H. Fu and J.Y. Kang. West China Hosp., Sichuan Univ. and Univ. of Louisville Sch. of Med.


B34 630.7 Emerging Role of Epigenetic in Pulmonary Arterial Hypertension Right Ventricular Failure F. Potus, G. Ruffenach, S. Provencher and S. Bonnet. Laval Univ., Canada.

B35 630.8 miR-126 at the Dawn of Angiogenic Defect Seen in PAH Right Ventricular Failure F. Potus, C. Graydon, W. Ryan, E. Michelakis, S. Provencher and S. Bonnet. Univ. Laval, Quebec and Univ. of Alberta.

B36 630.9 Lyosphosphatidic Acid Stimulation Does Not Induce a Lymphatic Identity along Blood Vessels in Intact Microvascular Networks Ex Vivo R.S. Sweat, M.S. Azimi and W.L. Murfee. Tulane Univ.

W.L. Murfee. Tulane Univ.


631. ATHEROSCLEROSIS/THROMBOSIS/PLATELETS

Poster
(Sponsored by: The Microcirculatory Society)

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B41 631.2 Cod Liver Oil Supplementation Effects on 2,3-Diphosphoglyceric Acid Blood Levels in Atherogenic Rabbits E.L. Beard and E.A. Michals. Loyola Univ., New Orleans.


B43 631.4 Tobacco Smoke and E-Vapor Initiate Kupffer Cell Inflammatory Responses D.A. Rubenstein and W. Yin. Stony Brook Univ.

B44 631.5 Free Cholesterol-Induced Macrophage Proliferation via Peroxisome-Proliferator Activated Receptor Gamma and Cyclin E Signaling Pathway X. Xu, X. Yuan, A. Zhang, N. Li, P-I. Li and F. Zhang. Virginia Commonwealth Univ. Sch. of Med.

B45 631.6 Exposure to E-Vapor Extracts Alters Platelet Aggregation, Adhesion and Activation L. Chen, T. Wang, W. Yin and D.A. Rubenstein. Stony Brook Univ.

B46 631.7 Advanced Glycation End Products Alters Platelet Aggregation I. Soalta, W. Yin and D.A. Rubenstein. Stony Brook Univ.


B48 631.9 Novel Nickel Superoxide Dismutase Treatment Delays FeCl3-Induced Arterial Thrombosis in Rats Y-T. Sung
632. INSTRUMENTATION

Poster

(Sponsored by: The Microcirculatory Society)

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B72 634.5 PMN Depletion Alters Ang-1:Ang-2 and Increases Tie2 Phosphorylation following Hemorrhagic Shock Priming for the Development of iARDS in Mice J. Lomas-Neira, C.-S. Chung, A. Ayala and Y. Chen. Rhode Island Hosp./Brown Univ.

B73 634.6 miR155 Expression Is Increased by Inflammation and Modulates the Expression of CD11a in Monocytes S. Syed, M.A. Amin and B.J. Rabquer. Albion Col., MI and Univ. of Michigan.

B74 634.7 Homocysteine Elicits an Inflammatory Profile in Murine Macrophages through an EMMPRIN-Mediated Pathway L.J. Winchester, S. Veeranki, S. Givvimani and S.C. Tyagi. Univ. of Louisville.

B75 634.8 Platelet-Endothelial Association with Fibrinogen/Fibrin, Coupled with Oxidative Stress, Protein Nitrosylation, and Fibrosis May Underlie Pulmonary Endothelial Cell Dysfunction in a Mouse Model of Type 1 Diabetes A.M. Roberts, R. Jagadapillai, J.T. Dixon, Y. Tan, L. Cai and E. Gozal. Univ. of Louisville Sch. of Med.


635. MICROVASCULAR CELL SIGNALING

Poster (Sponsored by: The Microcirculatory Society)

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM—3:00 PM


B82 635.6 Contrasting Effects of Ang II Receptors following Ischemia-Reperfusion in Ang II-Preconditioned Rat Hearts R.E. Nuñez, M. Castro, S. Javadov and N. Escobales. Univ. of Puerto Rico Sch. of Med.

B83 635.7 Hydrogen Peroxide-Induced Redox Homeostasis Regulation in Endothelial Cells H. Patel, J. Chen and M. Kavdia. Wayne State Univ.

636. MICROVASCULAR CELL SIGNALING

Poster (Sponsored by: The Microcirculatory Society)

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM—3:00 PM

B84 636.1 A Role for Hydrogen Sulfide in Obesity-Dependent Microvascular Remodeling J. Candela, G.V. Velmurugan, V.S. Lin, C.J. Chang and C. White. Rosalind Franklin Univ. of Med. and Sci. and Univ. of California, Berkeley.

B85 636.2 Macrophages Cause Reduced Biosynthesis of Hydrogen Sulfide in the Obese Microvasculature C. White, G.V. Velmurugan, V.S. Lin, C.J. Chang and J. Candela. Rosalind Franklin Univ. of Med. and Sci. and Univ. of California, Berkeley.

B86 636.3 3-Methylcholanthrene/Aryl-Hydrocarbon Receptor-Mediated Inactivation of eNOS through a RhoA/Akt-Dependent Mechanism C-C. Chang and S-H. Juan. Taipei Med. Univ. Col. of Med.


B88 636.5 Recruitment of RGS5 Protein to Mechanically Activated AT1R in Arteriolar VSMC K. Hong, M. Li, G.A. Meininger and M.A. Hill. Univ. of Missouri-Columbia.


B90 636.7 Interaction of ROS and RNS with GSH and GSH/GPX Systems J. Chen, B. Bhandar and M. Kavdia. Wayne State Univ.
637. MICROCIRCULATION I

Poster
Sun. 7:30 AM—Boston Convention & Exhibition Center, Exhibit Halls A & B

Presentation time: 12:45 PM–3:00 PM


B94 637.4 H₂O₂-Induced Dilation in Human Adipose Arterioles: Role of Smooth Muscle K⁺ Channels Y. Nishijima and D.X. Zhang. Med. Col. of Wisconsin.

B95 637.5 cd4D0L -CD40/TLA- 5 Signaling Contributes to AngII-Induced Thrombosis and Inflammation E.Y. Senchenkova, J. Russell, S.Vital, A.Yildirim and N. Granger. LSU Hlth. Sci. Ctr., Shreveport.


638. VASCULAR PATHOBIOLOGY I

Poster
Sun. 7:30 AM—Boston Convention & Exhibition Center, Exhibit Halls A & B

Presentation time: 12:45 PM–3:00 PM


B101 638.4 Impairment of Vascular Function in a Mouse Model of Neurofibromatosis Type 1 K. Jett, H. Chohan, J.Z. Cui, A.Y. Tehrani, J.M. Friedman, C. van Bremen and M. Esfandiarei. Univ. of British Columbia and Midwestern Univ., AZ.

B102 638.5 Assessment of ¹⁸F-NaF Positron Emission Tomography Imaging for Early Coronary Artery Calcification M.L. McKenney, P.R. Territo, A. Salavati, S. Houshmand, S. Persohn, Y. Liang, M. Alloosh, S.M. Moe, C.M. Weaver, A. Alavi and M. Sturek. Indiana Univ. Sch. of Med.; Univ. of Pennsylvania; Roudeshub VA Med. Ctr., Indianapolis and Purdue Univ.

B103 638.6 Cross-talk of Leptin and TSP-1 in Leptin-Induced Atherosclerosis S. Sahu, R. Ganguly and P. Raman. Northeast Ohio Med. Univ.


B105 638.8 Dietary Fats Shift Mechanisms Underlying Vasodilatation to Acetylcholine K. Lamping, P. Nelson, L. Coppey, M. Yorek and D. Nuno. Univ. of Iowa and Iowa City VA Healthcare Syst.


639. ANGIOGENESIS AND VASCULAR GROWTH I

Poster
Sun. 7:30 AM—Boston Convention & Exhibition Center, Exhibit Halls A & B

Presentation time: 12:45 PM–3:00 PM


640. NITRIC OXIDE/CARBON MONOXIDE/ VASOACTIVE MOLECULES

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM—3:00 PM

B118 640.2 Sildenafil Improves Flow-Mediated Dilation in Adults with Cystic Fibrosis R.A. Harris, N. Seigler, J. Thomas, K.T. McKie and C. Forseen. Georgia Regents Univ.
B124 640.8 The Spatial Distribution of Nitric Oxide-Evoked cGMP Can Produce Biphasic Effects on Na+/H+ Exchanger-1 Activity in the Rat Ventricular Myocyte M.A. Richards, D.J. Paterson, R.D. Vaughan-Jones and P. Swietach. Univ. of Oxford.

641. SHOCK

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM—3:00 PM


642. ENDOTHELIAL CELL BIOLOGY I

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM—3:00 PM

B135 642.2 Ammonia Stimulates Heme Oxygenase-1 Gene Expression in Human Endothelial Cells W. Durante, X-m. Liu and K.J. Peyton. Univ. of Missouri-Columbia.
B136 642.3 Role of Endothelial PPARγ: Protection against Vascular Dysfunction Induced by IL-1β M. Mukohda, F.W. Quelle and C.D. Sigmund. Univ. of Iowa.
643. PERIPHERAL CIRCULATION

Poster

**Presentation time:** 12:45 PM–3:00 PM


**B146 643.3** Cardiac Mechanoreceptor Activation in Humans: Evaluation by Phenylephrine and Norepinephrine H. Serensen, S. Ogoh, K. Sato, C. Siebenmann, P. Rasmussen, C. Lundby and N.H. Secher. Univ. of Copenhagen; Toyo Univ. and Univ. of Zürich.


644. CORONARY CIRCULATION

**Poster**

**Presentation time:** 12:45 PM–3:00 PM

**B149 644.1** Coronary Blood Flow Is Reduced by Doxorubicin: An Ultrasound Microscopic Study S. Liu. Univ. of Arkansas for Med. Sci.


**B151 644.3** Aging Selectively Attenuates L-Type Calcium Currents in Resistance Coronary Arteries F.A. Mansour, M.O. Hassan, A. A. Khan and S. Albarwani. Col. of Med. and Hlth. Sci., Sultan Qaboos Univ., Oman.


**B155 644.7** Effect of Adenosine on Coronary Blood Flow and Cardiac Function In Vivo Using Adenosine Receptor Knockout Mice B. Teng, S.L. Tilley, C. Ledent and S.J. Mustafa. West Virginia Univ.; Univ. of North Carolina at Chapel Hill and Univ. Libre de Bruxelles.

**B156 644.8** Increased Endothelial Expression of Human Soluble Epoxide Hydrolase Negatively Modulates Coronary Reactive Hyperemia in Isolated Mouse Heart A. Hanif, D.C. Zeldin and M.A. Nayeem. West Virginia Univ.


645. CEREBRAL CIRCULATION I

Poster  
**SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B**

Presentation time: 12:45 PM—3:00 PM


B162 645.3 Chronic Hypoxia Alters the Response of Fetal Ovine Middle Cerebral Arteries to Endothelin-1 J. Silpanisong, D. Kim, J.M. Williams, O.O. Adeoye, R.B. Thorpe and W.J. Pearce. Loma Linda Univ.


B164 645.5 Impaired Middle Cerebral Artery and Cerebrovascular Vasodilation in Healthy Aging N.S. Coverdale, M.B. Badrov and J.K. Shoemaker. Sch. of Kinesiol., Western Univ. and Western Univ., Canada.


646. CEREBROVASCULAR ABNORMALITIES IN HYPERTENSIVE DISEASE

Poster  
**SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B**

Presentation time: 12:45 PM—3:00 PM


B172 646.2 Reduced Dilatory Capacity of Brainstem Parenchymal Arteries of Young Spontaneously Hypertensive Rats D.N. Mayorov, S. Kasparov and J.F. Paton. Sch. of Physiol. and Pharmacol., Univ. of Bristol.


B174 646.4 Activation of the Central Renin-Angiotensin System Causes Selective Cerebrovascular Dysfunction T.M. De Silva, C.M. Lynch, J.L. Grobe and F.M. Faraci. Univ. of Iowa and Iowa City VA Hth. Care Syst.


647. HYPERTENSION I

Poster  
**SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B**

Presentation time: 12:45 PM—3:00 PM

B178 647.1 Optimizing the Microfil Dye Perfusion Technique Will Allow for Rat Cerebral Vascular Network Analysis through uCT Image Quantification M.A. McCarter, A. Balaez, J. Yarrow, J. Zubcevic and M.K. Raizada. Univ. of Mississippi Med. Ctr.

B179 647.2 Effects of Hyperandrogenemia on Cardiovascular and Metabolic Responses to Chronic Melanocortin-4 Receptor Blockade in Female SHR J.M. do Carmo, A.A. da Silva and J.E. Hall. Univ. of Mississippi Med. Ctr.


B184  647.7  Development of Capabilities for Simultaneous Assessment of Pulmonary and Systemic Hemodynamics in Conscious Rat to Identify Therapies with Pulmonary Selectivity  H. Zhao, X. Shen, X. Hong, K.M. Small and J.B. Madwed.  Merck, Kenilworth, NJ.


648.  ARTERIAL BAROREFLEX FUNCTION AND BLOOD PRESSURE REGULATION

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM—3:00 PM


B190  648.2  Aortic Depressor Response Is Blunted following Ovariectomy: Evidence for Involvement of Central but not Peripheral Afferent Pathways in Rat  G.C. Santa Cruz Chavez and J.H. Schild.  Indiana Univ.-Purdue Univ. Indianapolis.


B195  648.7  Methodological Considerations for Assessing Measures of Spontaneous Cardiac Baroreflex Sensitivity in Humans  I.L. Kent, S.W. Holwerda and P.J. Fadel.  Univ. of Missouri-Columbia.


B200  648.12  The Effect of Multiple Sclerosis on Cardiot Baroreflex Latencies of Arterial Blood Pressure and Heart Rate  D.R. Allen, M. Huang, S.L. Davis and D.M. Keller.  Univ. of Texas at Arlington; Southern Methodist Univ. and Univ. of Texas Southwestern Med. Ctr.

B201  648.13  SOD1 Overexpression Alters Aortic Depressor Nerve Function but Does Not Protect against Impairment of Baroreflex Heart Rate Control in Chronic Intermittent Hypoxia Exposed Mice  J.T. Hatcher, H. Gu and Z. Cheng.  Univ. of Central Florida.

649.  SYMPATHETIC CONTROL OF THE CIRCULATION

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM—3:00 PM


650. AUTONOMIC ADJUSTMENTS TO STRESS

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


651. AUTONOMIC BALANCE: SYMPATHETIC AND PARASYMPATHETIC

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B221 651.3 c-Fos Expression in Rat Periaqueductal Gray Induced by White Noise Sound Exposure S. Koba, R. Inoue and T. Watanabe. Tottori Univ. Fac. of Med., Japan.

B222 651.4 Vagal Nerve Stimulation Suppressed the Inflammatory Response in Chronic Heart Failure before Improving Hemodynamics A. Nishizaki, K. Saku, T. Ide, T. Kishi and K. Sunagawa. Kyushu Univ.

B223 651.5 An Examination of Long-Term Fluctuations in Arterial Pressure in the Prairie Vole R. Lewis, B. Benjamin and J.T. Curtis. Oklahoma State Univ. Ctr. for Hlth. Sci.

652. NCAR TRAINEE FEATURED TOPIC

Poster
Sun. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B
Presentation time: 12:45 PM—3:00 PM


B263 652.5 PSD95 Coupling of NMDA Receptor Activation and Nitric Oxide Activity in the Hypothalamic PVN M.E. Bardgett, M. Andrade, A.S. Calderon and G.M. Toney. Univ. of Texas Hlth. Sci. Ctr. at San Antonio.


653. CHEMOREFLEX FUNCTION AND AUTONOMIC REGULATION

Poster

SUN. 7:30 AM— BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B285 653.1 Age-Dependent Changes of CO2 Chemoreflex and Blood Pressure in Juvenile and Adult Spontaneously Hypertensive Rats A. Li and G. Nattie. Dartmouth Geisel Sch. of Med.


B292 653.8 Pressor Component of the Chemoreflex Response Is Not Mediated by P2 Purinergic Receptors in the A5 Area A.S. Haibara and S.A. Zebral. Fed. Univ. of Minas Gerais, Brazil.

B293 653.9 Hypoxia Activates Neurons in the Hypothalamic Paraventricular Nucleus that Project to the Nucleus Tractus Solitarii in the Brainstem B.C. Ruyle, K.M. Coldren, E.F. Palmieri, C.M. Heesch and E.M. Hasser. Univ. of Missouri-Columbia.

654. ENTERIC NERVOUS SYSTEM REGULATION

Poster

SUN. 7:30 AM— BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


655. CENTRAL REGULATION OF FOOD INTAKE AND BODY WEIGHT

Poster

SUN. 7:30 AM— BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B295 655.1 CB1 Receptors into the Prelimbic Cortex Modulate Food Intake in Rats A.A. Scopinho, L.B.M. Resstel and F.M.A. Corrêa. Sch. of Med. of Ribeirã Preto, Univ. of São Paulo.


B301 655.7 Physical Activity Motivation: Are Nucleus Accumbens Dopamine and Opioid Signaling Involved? G. Ruegsegger, R. Toedebusch and F. Booth. Univ. of Missouri-Columbia.


B304 655.10 Glycemic State Regulates Brain-Derived Neurotrophic Factor Responsiveness of Neurons in the Paraventricular Nucleus W.C. McIsaac and A.V. Ferguson. Queen’s Univ., Canada.

B305 655.11 Hypothalamic AgRP-mediated energy metabolism in skeletal muscle Is a critical regulatory system in feeding rhythm-induced insulin resistance T. Shiuchi, A. Otsuka, S. Chikahisa, N. Shimizu and H. Sei. Univ. of Tokushima Grad. Sch. and PRESTO, JST.

656. CNS SPINAL PLASTICITY

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B311 656.5 Plasticity in Diaphragm and Intercostal Motor Control in a Rat ALS Model. Y.B. Seven, N.L. Nichols and G.S. Mitchell. Univ. of Wisconsin-Madison and Univ. of Versailles.


B315 656.9 Adaptive Plasticity in the Spinal Control of Left-Right Coordination during Locomotion. A. Frigon, C. Dambreille, Y. Thibaudier, M-F. Hurteau, V. Kuczynski and E. Rhodes. Univ. of Sherbrooke, Quebec.

657. BRAIN DEVELOPMENT AND AGING

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


658. CENTRAL REGULATION OF BODY FLUID HOMEOSTASIS

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B328 658.7 Fructose Driven Vasopressin Secretion May Contribute to Chronic Kidney Diseases under Chronic Dehydration. Z. Song, M.L. Garcia and C. Roncal. Univ. of Colorado Anschutz Med. Campus.
659. CONTROL OF BREATHING: RESPIRATORY PLASTICITY
Poster
Sun. 7:30 am—Boston Convention & Exhibition Center, Exhibit Halls A & B
Presentation time: 12:45 pm–3:00 pm

B329 659.1 Gli Inhibitor Blocks Ventilatory Acclimatization to Chronic Sustained Hypoxia J.A. Stokes, Z. Fu and F.L. Powell. UCSF.

B330 659.2 Effects of A2A Receptors on the Hypoxic Ventilatory Response in Rats Exposed to Chronic Sustained Hypoxia K.E. Basaran, E.A. Moya, Z. Fu and F.L. Powell. UCSF and Erciyes Univ., Turkey.

B331 659.3 Relation between Diaphragm EMG and Ventilation in Rats Acclimatized to Hypobaric Sustained Hypoxia E.A. Moya, S. Burruelcos, Z. Fu and F.L. Powell. UCSF.


B336 659.8 Differential Inhibition of Bilateral Phrenic Bursting following Pulmonary Chemoreflex in Rats with Chronic Cervical Spinal Hemisection K-Z. Lee. Natl. Sun Yat-sen Univ., Taiwan.


B338 659.10 Pontine A7 and A5 Noradrenergic Neuronal Groups Mediate Long-Term Facilitation of Hypoglossal Motor Activity Induced by Episodic Airway Obstruction G. Song and C-S. Poon. MIT.


B340 659.12 5HT7 Receptor-Induced Phrenic Motor Facilitation Requires EPAC and mTORC1, but Not PKA Activity D. Fields and G. Mitchell. Univ. of Wisconsin-Madison.


660. CONTROL OF BREATHING: RESPIRATORY-RELATED DISORDERS IN AGING AND NEURODEGENERATION
Poster
Sun. 7:30 am—Boston Convention & Exhibition Center, Exhibit Halls A & B
Presentation time: 12:45 pm–3:00 pm

B345 660.1 Relationship of Age to Respiratory Muscle Strength and Mortality in Mechanically Ventilated MICU Patients H.L113494, H.L112085 G.S. Supinski and L.A.P. Callahan. Univ. of Kentucky.

B346 660.2 Phrenic Long-Term Facilitation following Acute Intermittent Hypoxia Is NADPH Oxidase Independent in a Rat Model (SOD1g939) of ALS N.L. Nicholas and G.S. Mitchell. Univ. of Wisconsin-Madison.


B349 660.5 The Diaphragm Challenged by Acid-Base Imbalance R.S. Fitzgerald, S. Howell and C. Roussos. Johns Hopkins Univ.; Univ. of So. California and Univ. of Athens.


661. LUNG PHYSIOLOGY: ENDOTHELIAL CELL BIOLOGY

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B357 661.2 TAK1 Signaling Downstream of PAR-1 in Endothelial Cells Restores Lung Vascular Barrier Integrity D. Soni, A. DebRoy, D. Wang, S.M. Vogel and C. Tiruppathi. Univ. of Illinois at Chicago.


B364 661.9 Pyk2-Induced Tyrosine Phosphorylation of STIM1 at Y361 Residue Regulates Puncta Formation, Store-Operated Calcium Entry and Lung Vascular Permeability M. Tauseef, T. Sharma, A. Malik and D. Mehta. Univ. of Illinois at Chicago.

662. LUNG PHYSIOLOGY: PULMONARY HYPERTENSION

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B369 662.5 Decreased PGC-1α-SIRT1 Signaling Leads to Impaired Angiogenesis in Persistent Pulmonary Hypertension of the Newborn G.G. Konduri, E. Callan, A. Afolayan and R-J. Teng. Med. Col. of Wisconsin.

B370 662.6 Stimulated Lymphocytes from Patients with ARG1 Single Nucleotide Polymorphism rs2781666 Have Augmented NO Production in Hyperoxia J.K. Trittmann, Y. Jin, B. Chen and L.D. Nelin. Nationwide Children’s Hosp. and The Ohio State Univ.

B371 662.7 Proteomic Study Reveals Altered Carbamyl-Phosphate Synthetase I in Congenital Heart Disease-Associated Pulmonary Arterial Hypertension X. Zhang, Q. Yang, J. Wang, Z-G. Liu, X-C. Liu and G-W. He. Hangzhou Normal Univ. and Zhejiang Univ., China ; Chinese Univ. of Hong Kong and Oregon Hlth. & Sci. Univ.


663. KIDNEY DISEASE

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B376 662.12 Differential Effects of Chronic Hypoxia on Basal and Agonist-Induced NO-Dependent Pulmonary Vasodilation in Neonatal Rats J.R. Sheak, N.L. Jernigan, B.R. Walker and T.C. Resta. Univ. of New Mexico.


B382 662.18 Endothelial Dysfunction in Pulmonary Arterial Hypertension K. Thambiayya. Univ. of Illinois at Chicago.


B384 662.20 Role of FK506 Binding Protein 51 in Pulmonary Arterial Hypertension A.A. Vasauskas and D.L. Cioffi. Univ. of South Alabama.


B387 662.23 Role for Bromodomain-Containing Protein 4 in Pulmonary Arterial Hypertension M. Vaillancourt, J. Meloche, G. Ruffenach, S. Provenceur and S. Bonnet. Quebec Heart and Lung Inst., Laval Univ.

663. KIDNEY DISEASE

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B389 663.2 Aquaporin-1 Retards Renal Cyst Development in Polycystic Kidney Disease by Inhibition of Wnt Signaling W. Wang, F. Li, H. Zhou, A. Verkman and B. Yang. Peking Univ. and UCSF.


B391 663.4 Loss of Primary Cilia Induces the Appearance of a Non-selective Cation Channel in the Apical Membrane of Mouse CCD Principal Cells T. Saigusa, Q. Yue, T.L. Thai, P.D. Bell and D.C. Eaton. Med. Univ. of South Carolina and Emory Univ.

B392 663.5 Clomiphene Citrate Induced Kidney Injury in Female Albino Rat H.A. Lamton and N.A. Lamton. Umm AL-Qura Univ. and King Abullaziz Med. City/Natl. Guard Heart Affair, Saudi Arabia.

B393 663.6 Hypoxia-Induced Redistribution of OS-9 in Kidney Cells R.S. Harris, C.D. Stanley and E.M. Ongeri. North Carolina A&T State Univ.

B394 663.7 Systemic Increase in Serum- and Glucocorticoid-Inducible Kinase 1 Activity Potentiates Mineralocorticoid/NaCl-Induced Renal but not Cardiac Fibrosis C. Sierra-Ramos, G. Hernandez, E. Salido and D. Alvarez de la Rosa. Univ. of La Laguna, Tenerife, Spain.

B395 663.8 Elevated Aldosterone at Birth Predicts Renal Function Decline in Low Birth Weight Rats N.B. Ojeda, B.T. Alexander and A. Bhatt. Univ. of Mississippi Med. Ctr.


B398 663.11 Reno-protective Effects of Plerixafor (AMD3100) in an Angiotensin II-Induced Chronic Kidney Injury Model A.R. Nair, P.J. Ebenezer and J. Francis. LSU, Baton Rouge.


B400 663.13 Podocyte-Specific Deletion of Acid Ceramidase Predisposes Mice to Obesity-Induced Glomerular Injury K.M. Boini, M. Xia, S.M. Conley, T.W. Gehr and P.-L. Li. Virginia Commonwealth Univ.

B401 663.14 Role for Rictor/mTORC2 Signaling in Mediating TGFβ1-Induced Fibroblast Activation and Kidney Fibrosis C. Dai, Nanjing Med. Univ., China.


B405 663.18 Twist2 Is a Novel Regulator of Renal Fibrosis L.A. Nichols, E.A. Grunz-Borgmann and A.R. Parrish. Univ. of Missouri-Columbia.
664. TRANSLATIONAL KIDNEY RESEARCH

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B410 664.5 Characterizing Renal Dysfunction in the Face of Hypertension and Heart Failure S.D. Brooks, J.C. Frisbee, P. Chantler, M. Olfert and R.W. Brock. West Virginia Univ.

665. GENOMICS OF OBESITY, DIABETES, CARDIOVASCULAR, KIDNEY AND BEYOND

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B412 665.2 Use of AMP Protein Kinase as a Potential Molecular Marker to Investigate the Development of Obesity in Non-model Fish Species M.A. Vides, P. Evans and Y. Kobayashi. Fort Hays State Univ., KS.

B413 665.3 Stearoyl-CoA Desaturase mRNA in Channel Catfish: A Potential Molecular Marker to Investigate Development of Obesity Using Non-model Fish Species C.S. Nash, P. Evans and Y. Kobayashi. Fort Hays State Univ., KS.


B422 665.12 Left Ventricular Cardiac Fibroblast Transcriptome Regulation by Aldosterone In Vivo J.P. Ball, M. Syed and D.G. Romero. Univ. of Mississippi Med. Ctr.


B426 665.16 The Effects of Genetic Background on Psychiatric Behaviors in CACNA1C +/- Mice P. Stephens, L.J. Sittig and A.A. Palmer. Morehouse Col., GA and Univ. of Chicago.

B427 665.17 Transcriptome Profiling of Human Prostate Cancer Cell Line LNCaP Treated with Individual Soy Isoflavones or Their Combination C.H. Jang, C. Schmidt and C. Wu. Univ. of Delaware.
666. RENAL TRANSPORT AND REGULATION I

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B429 666.2 Dietary Potassium, a Neglected Factor in Hypertension: Morphofunctional Evidence for Regulation of Cyclooxygenase-2 and Kallikrein by Potassium C.P. Vio, D. Salas, A. Hernandez, P. Pedraza and C. Cespedes. Pontificial Catholic Univ. of Chile, Sanatiago.

B430 666.3 Cell-Specific Regulation of BK Channel and WNK Kinases in Cortical Collecting Duct by Dietary K R. Carrisoza, A. Subramanyan, M. Carattino, T. Kleyman and L. Satlin. Icahn Sch. of Med. at Mount Sinai and Univ. of Pittsburgh Sch. of Med.


B432 666.5 The SGK1/NEDD4-2 Pathway Is Crucial in Regulating Renal Potassium Secretion O. Staub, L. Al-Qusairi, D. Basquin, M. Stifanelli and J. Loffing. Univ. of Lausanne and Univ. of Zurich.

B433 666.6 Reduced Renal K+ Excretion with Compensatory Hyperaldosteronism in Kc.1.1 Channel β2-subunit KO Mice C.K. Larsen, M.V. Sørensen, H.A. Praetorius and J. Leipziger. Aarhus Univ., Denmark.


B435 666.8 Familial Hyperkalemic Hypertension KLHL3 Mutations Disrupt Binding of ROMK Endocytotic Regulatory Protein ARH O.M. Woodward, B. Kim, L. Fang and P.A. Welling. Univ. of Maryland Sch. of Med.

B436 666.9 Familial Hyperkalemic Hypertension Proteins Form an Endocytic Switch for the Renal Excretory Channel, KCNJ1 P.A. Welling, L. Fang, B. Kim, J.B. Wade and O.M. Woodward. Univ. of Maryland Sch. of Med.


B448 666.21 Nitric Oxide Decreases the Permeeselectivity of the Paracellular Pathway in Thick Ascending Limbs by Elevating cGMP Levels and Activating PKG C.M. Monzon and J.L. Garvin. Case Western Reserve Univ.


B450 666.23 Insulin and IGF-1 Exert Distinct Actions on the Basolateral Electrolyte Fluxes in Principal and Intercalated Cells of the Collecting Duct O. Zaika, M. Mamenko, N. Boukelmoune and O. Pochynyuk. Univ. of Texas Hlth. Sci. Ctr. at Houston.


667. RENAL YOUNG INVESTIGATOR, IMMUNE CELLS IN HYPERTENSION

Poster

Sun. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B457 667.1 Cardiovascular, Metabolic and Renal T-Cell Profile of Obese C57Bl6 Mice: Role of Renal Nerves N. Asirvatham-Jeyaraj, J. Fiege, R. Han, J. Foss, A. Bartolomucci, M. Razzoli, B. Burbach, Y. Shimizu and J.W. Osborn. Univ. of Minnesota, Minneapolis.


B460 667.4 Activated JAK-STAT Pathway by IL-6 Mediates Macrophage-Induced Angiotensinogen Augmentation in Renal Proximal Tubular Cells R. Satou, R. O'Leary, K. Miyata and L.G. Navar. Tulane Univ.

B461 667.5 Female Sex Hormones Protect against Salt-Induced Increases in Immune System Activation in Dahl Salt-Sensitive Rats C. Ebeledike, E. Ralph, J. Musall and J. Sullivan. Georgia Regents Univ.


668. PH HOMEOSTASIS AND ACID-BASE BALANCE

Poster

Sun. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B466 668.1 Regulation of Sodium/Bicarbonate Cotransporter 1, NBCe1, in Murine Hippocampal and Cortical Astrocytes M. Schroedl and E. Roussa. Univ. of Freiburg, Germany.

B467 668.2 Novel pH-Dependent Astrocyte-Neuron Crosstalk in Hippocampal CA1 Region, Not Observed after the Knockout of the Anion Exchanger 3 A.I. Salameh and W.F. Boron. Case Western Reserve Univ.


669. TRANSPORTERS FOR TRANSMITTERS, NUTRIENTS, METABOLITES AND DRUGS

Poster

Sun. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B471 669.3 Expression of Transporters for Amino Acids and Glucose, GH Receptor, HSP90 and Myosin in Different Tissues of Pigs after Chronic Exposure to High Ambient Temperature A. Morales, M. Cota, N. Arce, A. Araiza and M. Cervantes. Autonomous Univ. of Baja California Mexico.

670. STEM CELLS, CELL GROWTH, DEVELOPMENT, DIFFERENTIATION AND AUTOPHAGY

Poster
SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B474 670.2 Activation of Cardiogenic Fate of C-kit+ Cardiac Progenitor Cells in Doxorubicin Induced Cardiotoxicity W. Zhu, I. Bender, A. Yellamilli and J. van Berlo. Univ. of Minnesota, Minneapolis.


B477 670.5 Angiotensin II-Induced Hypertension Impairs Hematopoietic Stem Cell Homing and Engraftment S. Kim, C.R. Cogle and M.K. Raizada. Univ. of Florida.


B479 670.7 Murine Circumvallate Papilla Taste Bud Organoid Development and Characterization of Stem/Progenitor Cell Cycle E. Aihara and M.H. Montrose. Univ. of Cincinnati.


B482 670.10 Demonstrating a Role for Nuclear APC in Intestinal Cellular Differentiation M.A. Miller and K.L. Neufeld. Univ. of Kansas.

671. CELL MIGRATION, CONTRACTILITY, CYTOSKELETON, AND ADHESION

Poster
SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


672. MICROBIOME: CELLULAR INTERACTIONS BETWEEN HOST AND ORGANISMS

Poster
SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


673. PHYSIOLOGY AND PATHOPHYSIOLOGY OF BARRIERS IN ENDOTHELIA, EPITHELIA AND THE BLOOD BRAIN BARRIER

Poster

**SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B**

Presentation time: 12:45 PM–3:00 PM

B493 673.1 Increased Cerebrovascular Protein Transcytosis and Amyloid-β Deposition during Hyperfibrinogenemia: Alter Short-Term Memory N. Muradashvili, W. Rodriguez, C. Maldonado, S.C. Tyagi and D. Lominadze. Univ. of Louisville.


B495 673.3 Epac1 Regulates Intestinal Epithelial Barrier Function by Recruiting JAM-A via RAP2C-TNIK Signaling Pathway I.A. Sheikh and M.H. Kazi. Natl. Inst. of Cholera & Enteric Dis., Kolkata.

B496 673.4 ERK 1/2 Mediates H₂O₂-Induced Increase in Renal Epithelial Paracellular Permeability S. Jaggi, A. Voronina, J. Axis and K. Amssler. NYIT Col. of Osteo. Med.


674. CARDIAC RESPONSES TO EXERCISE

Poster

**SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B**

Presentation time: 12:45 PM–3:00 PM

B512 674.1 Endurance Training Prevents, while High Intensity Interval Training Exacerbates, Molecular Markers of Heart Failure in Cardiac Muscle of Hypertensive Rats T.M. Holloway, D. Bloemberg, M.L. da Silva, J. Simpson, J. Quadrilatero and L.L. Spriet. Univ. of Guelph and Univ. of Waterloo, Canada.


B516 674.5 Sirtuins as Negative Regulators of Cardiac Fibrosis S. Samant, S. Bindu, P. Ghorpade, V.B. Pillai and M.P. Gupta. Univ. of Chicago.
B526 675.10 Comparison of Post-exercise Muscle and Neutrophil Transcriptomes Using Weighted Gene Co-expression Network Analysis J. Peake, D. Sampson, J. Broadbent, A. Bulmer and O. Neubauer. Queensland Univ. of Technol.; Griffith Univ., Australia and Univ. of Vienna.


B531 675.15 Effects of Single-Dose Dietary Nitrate on Oxygen Consumption during and after Prolonged Submaximal Exercise in Healthy Humans G.M. Kocoloski and A.R. Crecelius. Univ. of Dayton.

B532 675.16 Adipose Triglyceride Lipase Deletion from Adipocytes, but not Skeletal Myocytes, Impairs Acute Exercise Performance in Mice M.T. Sitnick, J.J. Dube, G. Schoiswohl and E.E. Kershaw. Montclair State Univ. and Univ. of Pittsburgh.


B534 675.18 The Profile of Exercise-Induced Neuronal Activation in Autonomic Control Nuclei Changes According to Thermoregulatory Phase P.M. Lima, H.P. Santiago and C.C. Coimbra. Fed. Univ. of Minas Gerais, Brazil.


B542 675.26 Differential Response in Arterial Stiffness Measures between Obese and Normal Weight Individuals T. Baynard, S.M. Ranadive, A.D. Lane, H. Yan, R.M. Kappus and B. Fernhall. Univ. of Illinois at Chicago; Mayo Clin.; Univ. of Iowa and East Carolina Univ.


B544 675.28 Higher-Volume Resistance Exercise Preferentially Increases Androgen Receptor-DNA Binding and Canonical Wnt/β-Catenin Signaling in Resistance-Trained Men M.B. Spillane, N.A. Schwarz and D.S. Willoughby. Univ. of South Alabama and Baylor Univ.


676. CIRCADIAN AND BIOLOGICAL TIMEKEEPING

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


677. EXERCISE TRAINING RESPONSES

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B553 677.6 Different Effects of Interval and Continuous Exercise Regimens on Capacity of Mitochondria Oxidative Phosphorylation in Lymphocyte S-C. Chang and J-S. Wang. Chang Gang Univ., Taiwan.


B563 677.16 Effect of Resistance Training on Intermuscular Adipose Tissue in Older Adults at Risk of Mobility Limitations S.B. Cook, A.R. Meyer, D.P. LaRoche and T.M. Manini. Univ. of New Hampshire and Univ. of Florida.


B565 677.18 Relationship between Cortisol and Free Testosterone in Response to Exhaustive Endurance Exercise A.R. Lane, T. Anderson and A.C. Hackney. Univ. of North Carolina at Chapel Hill.


B567 677.20 Effective Danio rerio Endurance Exercise Training Model K. Bronson, E. Freeman, M. Boller and K. Savage. St. John Fisher Col., NY.

B568 677.21 Exercise Attenuates Age-Associated Reductions in Muscle Strength and Cardiorespiratory Fitness in Mice G. Dillon, T. Drake and K. Huey. Drake Univ.


678. NEW INSIGHTS INTO THE PHYSIOLOGY AND PATHOPHYSIOLOGY OF DIVING AND HYPERBARIC ENVIRONMENTS

Poster
SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B582 678.3 Reduced Exercise Endurance after Repeated Long-Duration Oxygen Dives — Do Ventilatory Parameters Hint at a Cause? B.E. Shykoff, E.R. Bergeron and J.P. Florian. Navy Exptl. Diving Unit, Panama City, FL.

B583 678.4 Inhaled CO2 and CO2 Retention during Heavy Exercise Underwater B.E. Shykoff and D.E. Warkander. Navy Exptl. Diving Unit, Panama City, FL.

B584 678.5 Respiratory Monitoring System for Underwater Use D.E. Warkander, H. Boone and B. Shykoff. Navy Exptl. Diving Unit, Panama City, FL.


B586 678.7 Exposure to Hyperbaric Oxygen during Long-Duration, Repeated Exercise Dives Does Not Alter Cortisol Regulation B.J. Conaty, B.E. Shykoff and J.P. Florian. SUNY Sullivan and Navy Exptl. Diving Unit, Panama City, FL.

B587 678.8 Quantifying the Effects of Repeated Long-Duration Dives on Baseline Heart Rate Variability Measures N.T. Berry, L. Wideman, C.K. Rhea, J. Labban, K.H. Chon, B.E. Shykoff, J. Haran and J.P. Florian. Univ. of North Carolina at Greensboro; Univ. of Connecticut and Navy Exptl. Diving Unit, Panama City, FL.

B588 678.9 Where Have All the Bubbles Gone? O.F. Barak, D. Madden, A.T. Lovering, K. Lambrecht, M. Ljubkovic and Z. Dujic. Fac. of Med., Univ. of Novi Sad, Serbia; Univ. of Split Sch. of Med., Croatia; Univ. of Oregon and Univ. of Western Brittany Brest, France.

B589 678.10 Diving-Related Microparticle and Other Inflammatory Responses in Humans and Mice Are Inhibited by Ascorbic Acid S.R. Thom, O. Barak, M. Yang, J. Bhullar, V.M. Bhopale, D. Madden and Z. Dujic. Univ. of Maryland Sch. of Med. and Univ. of Split Sch. of Med., Croatia.


B591 678.12 Free Radical Production Is Increased during Hyperoxia and Exacerbated by Hypercapnic Acidosis In CO2-Chemosensitive Caudal Solitary Complex Neurons in Rat Medullary Slices G.E. Ciarlone and J.B. Dean. Univ. of South Florida.


B595 678.16 The Effect of Remote Ischemic Conditioning on Bubble Formation in a Decompression Sick Rat Model N.H. Schmidt, K. Hansen and M. Pedersen. Aarhus Univ., Denmark.


679. RESPIRATORY RESPONSES TO EXERCISE

Poster
SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B599 679.1 Type III-IV Muscle Afferents are NOT Required for a Normal Steady-State Exercise Hyperventilation in Healthy Subjects and Patients with COPD or Heart Failure C-S. Poon and G. Song. MIT.

680. ALTITUDE AND HYPOXIA

Poster
SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B604 680.4 Effects of Temperature and Hypoxia-Reoxygenation on Mitochondrial Oxidative Capacity and Volume, Oncorhynchus mykiss J.O. Onukwufor, D. Stevens, F. Kibenge and C. Kamunde. Univ. of Prince Edward Island.


681. HYPOXIA AND ION CHANNEL, SYNAPTIC AND NETWORK FUNCTION

Poster
SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B607 681.2 Carotid Body Response to Intermittent Hypoxia Requires Ca2+ T-Type Ca2+ Channels V.V. Makarenko, J. Nanduri, A.P. Fox, G.K. Kumar and N.R. Prabhakar. Univ. of Chicago.


682. HYPOXIA: TRANSMITTERS, SECOND MESSENGERS AND SIGNAL TRANSDUCTION

Poster
SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B613 682.4 Altered Behavioral Performance in the Cell-Specific HIF-1α and HIF-2α Deficient Mice K. Xu, X. Sun, T.S. Radford and J.C. LaManna. Case Western Reserve Univ.


683. RESPONSES TO ACUTE OR CHRONIC HYPOXIA EXPOSURE AND ALTITUDE

Poster
SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B618 683.1 The Effects of Dietary Capsaicin on Ventilation in Aging Mice A. Le, S.A. Ruby, C.M. Cunningham, M.C. Benson, K.C. DeRuisseau and L.R. DeRuisseau. Le Moyne Col., NY and Syracuse Univ.

B619 683.2 Mouth Occlusion Pressure (P0.1) Provides Valuable Information in the Clinical Assessment and Follow-Up of Ventilatory Drive in Obstructive and Restrictive Lung Disease D.J. De La Zerda and Y.M. Rovira. UCSD.
B620 683.3 Influence of Moderate Altitude in Salivary Cortisol Levels in Third Year Medical Students of the National University of Trujillo, Peru L.J. Fernández-Rodriguez, V.H. Bardales-Zuta and J.S. Hilario-Vargas. Antenor Orrego Private Univ. and Natl. Univ. of Trujillo, Peru.


B622 683.5 Short-Term Hypoxia Training Improves Anaerobic Performance in Amateur Women Boxers R. Wang, Y. Hu, M. Fan, D.H. Fukuda, J.R. Stout and J.R. Hoffman. Univ. of Central Florida; Beijing Sport Univ. and Univ. of Hong Kong.

684. GESTATION, FETAL, AND MAMMARY GLAND PHYSIOLOGY

Poster

Sun. 7:30 AM—Boston Convention & Exhibition Center, Exhibit Halls A & B

Presentation time: 12:45 PM–3:00 PM


B625 684.3 Placental Transport of Nutrients and Fetal Metabolism in Intrauterine Growth Restricted Rats I. Arguello, B.S. Hennington, B.T. Alexander and N.B. Ojeda. Tougaloo Col. and Univ. of Mississippi Med. Ctr.

B626 684.4 ZnT2-Mediated Zn Transport Modulates Prolactin Stability and Secretion to Maintain Lactation S. Lee and S.L. Kelleher. Penn State Hershey Col. of Med. and Penn State.

B627 684.5 The Effects of Preterm Birth on Cerebral Pressure-Flow Dynamics T. O’Donnell, B. MacRae, M. Berry and Y-C. Tzeng. Univ. of Otago, New Zealand.

B628 684.6 Adverse In Utero and Postnatal Environments Promote Hepatic Microvesicular Steatosis in Conjunction with Differential Alterations in Fatty Acid and Amino Acid Metabolism in Early Adulthood O. Sarr, K. Dunlop, L. Zhao, I. Welch and T.R.H. Regnault. Western Univ., Canada.


B631 684.9 Nuclear and Cytosolic Expression of Placental PKM2 in Preeclampsia and Intrauterine Growth Restriction C.A. Mejia, B.L. Bahr, P.R. Reynolds and J.A. Arroyo. Brigham Young Univ.

B632 684.10 Inhibition of Trophoblast Invasion by the Growth Arrest-Specific 6 Protein C.A. Mejia, A. Johnston, R. Lutz, J.A. Arroyo and P.R. Reynolds. Brigham Young Univ.


685. NEUROENDOCRINOLOGY, HYPOTHALAMUS, REPRODUCTION, AND SEX HORMONES

Poster

Sun. 7:30 AM—Boston Convention & Exhibition Center, Exhibit Halls A & B

Presentation time: 12:45 PM–3:00 PM

B636 685.1 Effects of Coconut Water on Reproductive Functions in Danazol Treated Wistar Rats O.T. Kunle-Alabi, O.O. Akindele, M.O. Oyovwi, M.A. Duro-Ladipo and Y. Raji. Univ. of Ibadan, Nigeria.


B638 685.3 Assessment of Aphrodisiac Effects of Methanol Extract of Carpobrotus lutea Root in Male Rabbits Y. Raji, A. Dare, O.T. Kunle-Alabi and O.O. Akindele. Univ. of Ibadan, Nigeria.


B642 685.7 Crosstalk between Retinoic Acid and Calcium Signaling Pathways Regulates Granulosa Cell Proliferation J.L. Kipp, M. Demczuk, H. Huang and C. White. Rosalind Franklin Univ. of Med. and Sci. and DePaul Univ.


Antenor Orrego Private Univ., Peru; Albert Ludwigs Univ., Germany and Natl. Univ. of Trujillo, Peru.


B647 685.12 Role of Androgens in the Phenology of Male Arctic Ground Squirrels M.M. Richter, B.M. Barnes and C.L. Buck. Univ. of Alaska Fairbanks and Univ. of Alaska Anchorage.

B648 685.13 mTOR: A Possible Signaling Intermediate in the Leptin-Kisspeptin Pathway during the Pubertal Transition in Female Rats W.D. Hall, T.L. Trevathan and T.D. Maze. Lander Univ., SC.


B650 685.15 Perfluorooctanoic Acid-Induced Progesterone Synthesis Inhibition Is Associated with Decreased Expression of Steroidogenic Acute Regulatory Protein mRNA but Not p450 Side-Chain Cleavage mRNA in hCG-Stimulated.mLTC-1 Cells. E.L. Miller, S.Y. Tadros and J.D. Cannon. Georgia Regents Univ.


B652 685.17 Diminished M Currents Contribute to Hyperactivity of Corticotropin-Releasing Hormone Neurons in Acute Stress J-J. Zhou, Y-G. Gao, T.A. Kosten and D-P. Li. HeBei Med. Univ., China; Univ. of Texas, MD Anderson Cancer Ctr. and Univ. of Houston.


686. SCHOLANDER AWARD COMPETITION

Poster

SUN. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B656 686.2 Murine Pulmonary Slowly-Adapting Receptors: Putative Links to Neuroepithelial Body Hypoxia Chemoreception and the Calcium Sensing Receptor N.J. Domnik, S.G. Vincent, R.J. MacLeod, E. Cutz and J.T. Fisher. Queen’s Univ., Canada; The Hosp. for Sick Children, Toronto and Univ. of Toronto.


B658 686.4 Control of Breathing and Adaptation to High-Altitude Hypoxia in Deer Mice (Peromyscus maniculatus) C.M. Ivy and G.R. Scott. McMaster Univ., Canada.


B660 686.6 Thyroid Gland Remains Responsive to Thyroid Stimulating Hormone with Fasting Duration B. Martinez, J.G. Soñanez-Organis, D.S. MacKenzie, D.E. Crocker and R.M. Ortiz. Univ. of California, Merced; Univ. of Sonora, Mexico; Texas A&M Univ. and Sonoma State Univ.


B663 686.9 Recruitment of Ankle Flexor and Extensor Muscles during Leg Movements in Chick Embryos SY. Sun and N.S. Bradley. Univ. of So. California.


MONDAY, MARCH 30

Across Societies – Experimental Biology

687. TEACHING, LEARNING AND TESTING IN THE BIOLOGICAL AND BIOMEDICAL SCIENCES II

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Education

Presentation time: 12:30 PM–2:30 PM

Recognizing that techniques and issues related to teaching and the use of computers in research and teaching crosses all biomedical disciplines, EB 2015 has combined education posters from all participating societies. Please note: Posters are on display Sunday through Tuesday. Presentation time is for Monday only.


T42 687.2 Co-teaching the Basic Sciences: Does It Really Influence Student Outcomes? M.W. Lee and M.B. Gaard. Univ. of Central Florida Col. of Med.


T44 687.4 Use of a Learning Management System and Related Technology to Improve Physiology Classroom Teaching S. Mulroney, J. Whitney and A. Myers. Georgetown Univ.

T45 687.5 The Flipped Classroom Model Improves Undergraduate Test Performance in Human Physiology A.G. Goodwill. Indiana Univ. Sch. of Med. and Indiana Univ. Purdue Univ. at Indianapolis.

T46 687.6 Higher Order Thinking Is Required in an Anatomy and Physiology Course Utilizing the Flipped Model L.R. DeRuisseau, B.N. Binion, T.A.C. Willman and A.S. Bidwell. Le Moyne Col., NU and Henninger H.S., Syracuse.

T47 687.7 The Impact of Using a Clicker System and Online Homework on Teaching Effectiveness and Student Learning Experience D. Shaw. Univ. of Tennessee at Martin.

T48 687.8 A Flipped Classroom Using Screen-Capture Video D.J. McCann. Gonzaga Univ., WA.

T49 687.9 Collaborative Learning in the Undergraduate A&P Classroom K.M. Mathis and D.P. Schauer. Univ. of Cincinnati Clermont Col. and Univ. of Cincinnati Col. of Med.


T54 687.14 Faculty and Student Perspectives on Formative Feedback and Its Role in Learning K. LaBell and J.D. Kibble. Univ. of Central Florida.

T55 687.15 The Use of Triggers during High Fidelity Patient Simulations in Medical Physiology to Develop Non-cognitive Skills and Integrate Physiology J.M. Reinemann, K. LaBell and D.M. Harris. Univ. of Central Florida Col. of Med.

T56 687.16 High Fidelity Patient Simulations in Medical Physiology Improve non-cognitive Skills in First Year Medical Students D. Harris, C. Bellew, A. Asmar, J. Cendan and T. Johnson. Univ. of Central Florida.

T57 687.17 A Structured Program for Increasing Medical Student Commitment to Engage in Scientific Research on Hispanic Health Issues M.J. Crespo, A. Facundo, M. Vera and K. Merced. Univ. of Puerto Rico Sch. of Med.


T63 687.23 Ahead of Its Time: An Innovative Obstetric Simulator in 18th Century France T.L. Witt. Germanna Community Col., VA.

T64 687.24 The Effect of Rubric Delivery Method and Additional Written Comments on Future Lab Report Performance S. Dawson and G. Wilds. Univ. of Oregon.

T65 687.25 Technical Writing for Introductory Science Courses – Proficiency Building for Majors and Non-majors R.M. Hannah and M. Lisi. Univ. of Maine at Presque Isle and Univ. of Maine at Augusta.

T66 687.26 Cooperation at the Molecular Level Affects Your Performance and Health A.J. Freigh. Univ. of Delaware.

T67 687.27 Modeling Enzyme Activity J. Hay. Suffolk County Community Col., NY.

T68 687.28 The Use of POGIL Teaching Strategy Increases Student Learning of Basic Pharmacology Concepts R.P. Soltis. Drake Univ.

688. COMPUTERS IN RESEARCH AND TEACHING

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER,
EXHIBIT HALLS A & B

Education

Presentation time: 12:30 PM–2:30 PM

Recognizing that techniques and issues related to teaching and the use of computers in research and teaching crosses all biomedical disciplines, EB 2015 has combined education posters from all participating societies. Please note: Posters are on display Sunday through Tuesday. Presentation time is for Monday only.

T1 688.1 Microbiological Investigation of Waters from Lake Përëpniqca during Winter Season 2013 M. Ismaili, F. Rashiti, Y. Kurteshi and N. Sahiti. Fac. of Nat. Sci., Univ. of Pristhina, Albania.


T3 688.3 Impact of Co-enrollment in Computer-Based Human Physiology Virtual Laboratory on Students’ Final Lecture Course Grade: A Follow-up Study A.R. Crecelius and J. Keller. Univ. of Dayton.

Anatomy

689. ANATOMY EDUCATION: FACTORS AFFECTING STUDENT PERFORMANCE

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER,
EXHIBIT HALLS A & B

Education & Teaching

Education

Presentation time: 12:30 PM–2:15 PM


D203 689.3 The Influence of Spatial Ability on High and Low Order Anatomy Examination Questions T.S. Phelps, N. Nguyen, A.C. Edmondson and C.M. Martin. Med. Col. of Georgia at Georgia Regents Univ. and OhioHtth., Columbus.

D204 689.4 Quantification of Pattern Recognition Skills Acquisition in Histology Using an Eye-Tracking Device: First-Step toward Evidence-Based Histology Education J.E. Kahl, P.M. Carry and L.M.J. Lee. Univ. of Colorado Sch. of Med. and Colorado Sch. of Publ. Hlth., Univ. of Colorado.


690. ANATOMY EDUCATION: ASSESSMENT

Presentation time: 12:30 PM–2:15 PM

D213 690.1 Is There a Perfect Assessment for Undergraduate Medical Student Including Anatomy Examination? A. Mustafa. Univ. of Edinburgh.


D215 690.3 Problem-Based Learning Curriculum and Assessment of Anatomical Knowledge: Kuwait University Experience K.M. Khan, H. Al-Hussaini and A. Mohammed. Kuwait Univ.


D219 690.7 Analysis of Written Exam Items with or without Reference Pictures A. Notebaert. Univ. of Mississippi Med. Ctr.


D222 690.10 Withdrawn.


D224 690.12 Examination of the Quality and Effectiveness of Peer Feedback and Self-Reflection Exercises among Medical Students B.M. Byrd, C.M. Martin, C.A. Nichols and A.C. Edmondson. Med. Col. of Georgia at Georgia Regents Univ.

D225 690.13 Analysis of the Quality, Themes, and Reliability of Faculty versus Student Feedback following Student Group Presentations in a Medical School Curriculum D.M. Melton, A.C. Edmondson and C.A. Nichols. Med. Col. of Georgia at Georgia Regents Univ.


691. ANATOMY EDUCATION: INTEGRATING CLINICAL INFORMATION

Presentation time: 12:30 PM–2:15 PM


D237 691.11 Continuing Medical Education Learning Module for the Primary Care and Emergency Medicine Physicians: Musculoskeletal Assessment of the Knee and Shoulder Joints K. Hines and E. Aagaard. Univ. of Colorado Denver, Aurora.


D240 691.14 Effectiveness of Simulation-Based Training in Aneurysm Diagnosis and Coiling in Cerebral Angiography O. Zaika, N. Nguyen, M. Boulton, R. Eagleson and S. de Ribaupierre. Univ. of Western Ontario and OhioHlth. Learning, Columbus.


### 692. ANATOMY EDUCATION: IMAGING MODALITIES IN ANATOMY

**Poster**

**Education & Teaching**

**Presentation time:** 12:30 PM–2:15 PM


D244 692.2 Improving Longevity of Gelatin Ultrasound Trainers B. Iceton and D.F. Royer. Univ. of Colorado Anschutz Med. Campus and Univ. of Colorado Sch. of Med.


D246 692.4 Use of a Rotating Gross Dissection-Clinical Training Schedule to Incorporate Ultrasound Training in a Medical Anatomy Course H. Ressetar, J. Minardi and B. Palmer. West Virginia Univ. Sch. of Med.


D250 692.8 A Step by Step Visual Guide to Using the Sectra Visualization Table for 1st and 2nd Year Medical Students D. Barrack, D. Horn and B. Benninger. Western Univ. of Hlth. Sci., OR.


### 693. ANATOMY EDUCATION: EDUCATIONAL OUTREACH PROGRAMS

**Poster**

**Education & Teaching**

**Presentation time:** 12:30 PM–2:15 PM


D258 693.2 Effects of Dissection Experience on Student Application to Allied Health Programs M.A. Carroll. DeSales Univ., PA.

D259 693.3 Anatomy Academy: A Catalyst for Personal Growth and Development in Undergraduate Pre-professional and Medical Students K.S. Steed, H. Wilson-Ashworth and J.J. Wisco. Brigham Young Univ.; Utah Valley Univ. and Univ. of Utah.

MONDAY


D263 693.7 Training Better Medical Students: A 2015 Update of The Graduate Medical Sciences Master’s Program at Texas Tech University Health Sciences Center. B.L. Schneider and V.H. Lee. Texas Tech Univ. Hlth. Sci. Ctr.


D266 693.10 An Exploration of Learner-Centered Teaching and the Impact on Physical Therapy Students Teaching a High School Anatomy Summer Program. D. Callier, T. Chambless and K. Bruzzini. Maryville Univ. of St. Louis.

694. ANATOMY EDUCATION: EDUCATING FUTURE ANATOMISTS

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Education & Teaching

Presentation time: 12:30 PM–2:15 PM


D268 694.2 Implementation and Evaluation of Anatomy Teaching Associate Program. V. Makeeva and D. Resuehr. Univ. of Alabama at Birmingham Sch. of Med.


695. ANATOMY EDUCATION: META-ANALYSIS LITERATURE REVIEW

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Education & Teaching

Presentation time: 12:30 PM–2:15 PM


696. BONES, CARTILAGE AND TEETH: ANATOMY AND MORPHOLOGY

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:30 PM–2:15 PM


D278 696.7 Quantifying the Shape of the Greater Sciatic Notch using Elliptical Fourier Analysis. J.N. Byram, K.E. Latham and S.P. Nawrocki. Indiana Univ. Sch. of Med. and Univ. of Indianapolis.

697. BONES, CARTILAGE AND TEETH: CRANIOFACIAL

Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:30 PM–2:15 PM

D281 697.2 Inbred Background Effects on Craniofacial Shape Dysmorphology in Mice with Spry Deletions C.J. Percival, V. Mushegyan, D-K. Tran, O.D. Klein and B. Hallgrimsson. Univ. of Calgary, Canada and UCSF.
D283 697.4 Genome-Wide Association Study of Dental Arch Form and Occlusal Relationships in the Mixed Dentition Stage S.F. Miller, J.R. Shaffer, M.L. Marazita, S.M. Levy, J.J. Warren, J.K. Hartsfield and L.M. Moreno. Univ. of Iowa; Univ. of Pittsburgh and Univ. of Kentucky.

D289 697.10 Biomechanical Differences between Inner and Outer Layers of the Parietal Cortical Bone U. Zapata and Q. Wang. EAFIT Univ., Colombia and Mercer Univ., GA.

698. BONES, CARTILAGE AND TEETH: EXERCISE, BIOMECHANICS; BIOENGINEERING

Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:30 PM–2:15 PM

D293 698.3 Apoptosis in Bone of Diabetic Rats Treated with Low Intensity Laser J.P. Silva, V.deP.S. Fazan, D.P. Tirapelli, J.A. Thomazini and L.F. Tirapelli. Med. Sch. of Ribeirão Preto, Brazil.

699. BONES, CARTILAGE AND TEETH: MOLECULAR MECHANISMS

Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:30 PM–2:15 PM


700. BONES, CARTILAGE AND TEETH: DEVELOPMENT

Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:30 PM–2:15 PM

D295 700.1 A Histological and Molecular Analysis of Tooth Regeneration in Monodelphis domestica E.M. Popa, A. Alghadeer, N. Anthwal, M. Gaete and A.S. Tucker. King’s Col. London and Pontifical Catholic Univ. of Chile, Santiago.
MONDAY

701. BONES, CARTILAGE AND TEETH: EVOLUTION AND ANTHROPOLOGY

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:30 PM–2:15 PM


702. BONES, CARTILAGE AND TEETH

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:30 PM–2:15 PM


D305 702.3 Is the Shape of the Proximal Femur a Risk Factor for Degenerative Processes of the Hip and Hip Fracture? A New Approach Based on Geometric Morphometrics Methods H. May and F. Rühi. Sackler Fac. of Med., Tel Aviv Univ. and Fac. of Med., Univ. of Zurich.


D308 702.6 The Post-surgical Stability of the Nitinol Shape Memory Staple in Orthopaedics A. Shenoy, S.L. Gordon, W. Hayes, S. Saha and S. Marquez. SUNY Downstate Med. Ctr.


703. ANATOMY: NEURAL

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Neurobiology

Neurobiology

Presentation time: 12:30 PM–2:15 PM


D315 703.2 A Histological Examination of the Lumbar Sympathetic Trunk N.M. Mintz, T.S. Beveridge, M. Sandig, M. Johnson and B.L. Allman. Western Univ., Canada.

D316 703.3 Innervation of the Psoas Major Muscle L.E. Sanders, J. Guan, D.A. Morton and M.A. Mahan. Univ. of Utah.

D317 703.4 Morphological Variation in the Communicating Branch between the Lateral and Medial Plantar Nerves S.E. Tilden, J.P. Gravenstreter, S.N. Michalak and M.T. Bee. Univ. of Detroit Mercy and Oakland Univ., MI.


704. NEUROBIOLOGY

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Neurobiology

Neurobiology

Presentation time: 12:30 PM–2:15 PM


D325 704.2 Unexpected Cone Position in S-Hydroxydopamine-Treated Dark-Adapted Goldfish Retina S. Thapa and W.H. Baldrige. Dalhousie Univ., Canada.


D328 704.5 Identification of Substance P Immunoreactive Axons in the Aortic Depressor Nerve of Normotensive Wistar Rats C.S. Carvalho, J.A. Castania, H.C. Salgado, I.J. Llewellyn-Smith and V.P.S. Fazan. Sch. of Med. of Ribeirão Preto, Brazil and Flinders Univ., Australia.

D329 704.6 ProBDNF Negatively Stimulates the Neuronal Precursor Cells Differentiate into Mature Neurons in Rat DRG W. Ma, J. Wang, J. Ru, T. Luo, D. Wang, X. Li, T. Wang, L. Li and J. Guo. Kunming Med. Univ. and First People’s Hosp. of Yunnan Province, China.


D331 704.8 Plasma Autoantibodies from Human Diabetic Depression Patients Inhibit Neuritogenesis and Induce Depression-Like Behavior in Mice Joseph A. Behnke, Janet Alder, Smita Thakker-Varia and Mark B. Zimering.

705. NEUROBIOLOGY: BEHAVIOR; NEUROPSYCHIATRIC DISORDERS; DISEASE; AGING

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Neurobiology

Neurobiology

Presentation time: 12:30 PM–2:15 PM

D332 705.1 Obstacle Height and Divided Attention Affects Obstacle Crossing in People with Parkinson’s Disease L.K. Smith, M. Hunt, L.E. Dibble, A. Merryweather and K.B. Foreman. Univ. of Utah.

D333 705.2 Vestibular and Proprioception Deficits in Adults with Controlled Diabetes Mellitus II Causes Postural Control Instability M.G. Rosario, D. Dunbar and A. Ortiz. Univ. of Puerto Rico and Texas Woman’s Univ.-Houston.

D334 705.3 Effects of Acute Insulin Treatment in the Recurrent Laryngeal Nerve Myelinated Fiber Morphometry in Experimental Diabetes V.A.A. Mendes, G.A.R. Silva, J.A. Castania, H.C. Salgado and V.P.S. Fazan. Sch. of Med. of Ribeirão Preto, Brazil.

D335 705.4 Diabetes Impairs Visual Function and Reduces Cytoprotective Nr2 Protein Content in Retinas of Rats Z. Nasraiah and A.J. Barber. Penn State Col. of Med.

D336 705.5 Preventing Alzheimer’s Pathology in a Preclinical Mouse Model P.A. Shaw. Icahn Sch. of Med. at Mount Sinai.


D340 705.9 Aortic Depressor Nerve Myelinated Fiber Distribution in Spontaneously Hypertensive Rats during Aging M.M. Amorim, J.A. Castania, H.C. Salgado and V.P.S. Fazan. Sch. of Med. of Ribeirão Preto, Brazil.


D342 705.11 Extended Cocaine Access Results in a Distinct Epigenetic Alterations to the Homer2 Gene in the Dorsal Medial Prefrontal Cortex K.L. Ploense, A. Carr, D. Baker-Andresen, X. Li, Y. Sun, T.W. Bredy and T.E. Kippin. Univ. of California, Santa Barbara; Queensland Brain Inst., St. Lucia, Australia; UCLA and Univ. of California, Irvine.

D343 705.12 Combination of Sub-effective Doses of NMDA and D1 Dopamine Receptor Antagonists Impairs Executive Function in Rats S.J. Desai, B.L. Allman and R. Rajakumar. Univ. of Western Ontario.
706. NEUROBIOLOGY: BRAIN

Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Neurobiology

Neurobiology

Presentation time: 12:30 PM–2:15 PM

D344 705.13 Thymoquinone Inhibits Neurodegeneration and Enhances Neurogenesis in Kainic Acid-Induced Middle-Aged Wistar Rat Model of Temporal Lobe Epilepsy S.A. Brito, N. Kilarkaje and M.S. Rao. Fac. of Med., Kuwait Univ.


D350 706.6 Delineating the Cellular Hierarchy of Glioblastoma and Gliosarcoma for Identification of Therapeutic Targets F. Hassiotou, M. Jackson, T. Seymour and A. Nowak. Sch. of Chem. and Biochem., Univ. of Western Australia and Sch. of Med. and Pharmacol., Univ. of Western Australia.

D351 706.7 Cellular Identification of Doublecortin Positive Immature Neurons in Monkey Cortex N. Heyworth, S. Calderazzo, M. Kyada and D. Rosene. Boston Univ. Sch. of Med.

D352 706.8 Diminished Ang-2 Expression and Microvascular Density in COX-2 Knockout Mouse Cerebral Cortex in Moderate Hypobaric Hypoxia G.F. Benderro, K. Xu and J.C. LaManna. Case Western Reserve Univ.


707. NEUROBIOLOGY: NEURONAL AND SPINAL CORD DEGENERATION, REPAIR AND REGENERATION

Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Neurobiology

Neurobiology

Presentation time: 12:30 PM–2:15 PM


D358 707.3 Ultrastructural Changes in the Optic Nerve after Injury and Neurotrophic Factor Treatment G.S. Vega, J.M. Blagburn and R.E. Blanco. Univ. of Puerto Rico, Sch. of Med.


D361 707.6 Crushed Sciatic Nerve Treated with Latex Protein Associated with Low-Level Laser: Long-Term Functional Study F.J. Dias, I-s. Watanabe, M.M. Iyomasa, C-N. Joaquim, J.P.M. Issa and V.P.S. Fazan. Ribeirão Preto Med. Sch. ; Ribeirão Preto Dent. Sch., USP and Inst. of Biomed. Sci., Univ. of São Paulo, Brazil.

708. NEUROBIOLOGY: NEUROPROTECTION AND NEUROIMMUNOLOGY

Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Neurobiology

Neurobiology

Presentation time: 12:30 PM–2:15 PM


Biochemistry and Molecular Biology

**709. CHROMATIN STRUCTURES AND DYNAMICS**

**Poster**

**MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B**

**Presentation time:** 12:55 PM—2:25 PM

A1 709.1 Regulation of Mitochondrial Biogenesis and Activity by Histone Acetylation D.M. Rogerson, L. Galdieri, T. Zhang, R. Lleshi and A. Vancura. St. John’s Univ., NY.


A4 709.4 The Role of Histone H1 in S. cerevisiae R. Leicher, S. Schilit and S. Holmes. Wesleyan Univ.

A5 709.5 Genetic Effects of Low-Dose Ionizing Radiation on the Chaffinch (Fringilla coelebs) in Chernobyl M. Owens, A. Bonisoli-Alquatti, A.P. Møller and T.A. Mousseau. Univ. of South Carolina and Univ. Paris-Sud.

A6 709.6 CTCF Protein Recruits Centromeric Protein CENP-E to the Centromeric Regions through Unusual CTCF Binding Sites T. Xiao, P. Wongtrakoongate, C. Trainor and G. Felsenfeld. NIDDK, NIH.


A8 709.8 Nucleosome Dynamics around a DNA Double Stranded Break during Repair by Gene Conversion M. Tsabar, W.M. Hicks and J.E. Haber. Brandeis Univ. and Harvard Med. Sch.


**710. DNA STRUCTURES AND PROTEINS THAT INTERACT WITH THEM**

**Poster**

**MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B**

**Presentation time:** 12:55 PM—2:25 PM


A12 710.2 New Insights into DNA Binding and Dimerization Dynamics of E. coli Histone -Like Protein HU K. Arora and P. Gupta. IISER Mohali, Punjab.

A13 710.3 Multi-color, Live Cell CRISPR-Based 3-D Mapping of the Human Nuclear Genome H. Ma, A. Neseri, P. Reyes-Gutierrez, S. Zhang, S.A. Wolfe and T. Pederson. UMass Med. Sch. and Univ. of Central Florida.

A14 710.4 Improving Biofuel Production with Metagenomics and Synthetic Biology E. Witt, K. Forsberg, T. Ellison and G. Dantas. Washington Univ. in St. Louis.

A15 710.5 Population Health of Horseshoe Crabs (Limulus polyphemus) at Harvested and Unharvested Beaches in South Carolina R. Walsh, T. Darden and J. Robinson. Minnesota State Univ. Moorhead and Col. of Charleston.


A17 710.7 Examining KIT, EDNRB, MITF, PMEL17, MLANA Genes to Determine the Genetic Basis of Equine Deafness A.M. Achimovich, K.A. Innamorati and K.A. Lipsett. Gettysburg Col. and Drexel Univ. Col. of Med.


A19 710.9 Salt-Induced Changes to the Stability of Poly(dA:dT) Tract DNA and Implications for Nucleosome Formation J. Jensen and D. Grilley. Univ. of Wisconsin-La Crosse.


A22  710.12 Multiple Pathways Mediate Thyroid Hormone Receptor Nuclear Import L.A. Allison, V.R. Roggero, L.E. Parente, J. Zhang and R.C. Dziedzic. Col. of William and Mary, VA.


A25  710.15 Flexibility of Terminal Cytidines in Ca2+ Form B-DNA Z. Luo and Z. Dauter. NCI, NIH.


A27  710.17 Purification of DNA from Chicken Embryos to Characterize Genetic Sequences U. Kadiyala, S.R. Smith and M.A. Benore. Univ. of Michigan Dearborn.


A30  710.20 Variability in HSP90AB1 and HSP90AA1 Are Not Correlated with Phenotypic Differences in Glucocorticoid Receptor-Mediated Response or Subcellular Hsp90 Localization T.M. Forst, R.M. Lassalle-Klein, R.S. Knox and P.J.M. Murphy. Seattle Univ.

A31  710.21 Investigation of FSH Responsiveness in a Granulosa Cell Line S. Zeltsman and B.D. Cohen. Union Col., NY.


A33  710.23 Human PrimPol: A Novel Mechanism of Antiviral Toxicity A.C. Mislak and K.S. Anderson. Yale Univ.

711. RNA EXPRESSION AND POSTTRANSCRIPTIONAL REGULATORY EVENTS II

(Poster Session I scheduled on Sunday)

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:05 PM–1:35 PM


A35  711.2 The Role of Multifunctional RNA Binding Protein OsTudor-SN in Affecting Storage Protein RNA Transport and Seed Morphology in Rice H.-L. Chou, T. Kumamaru and T.W. Okita. Washington State Univ. and Kyoto Univ.


A37  711.4 The mRNA Binding Protein AUF1 Controls the Regenerative Potential of Activated Skeletal Muscle Stem Cells D.M. Chenette, A. Cadwallader, B. Olwin and R. Schneider. NYU Sch. of Med. and Univ. of Colorado Boulder.

A38  711.5 The Regulation of TIA-1 Binding to RNA by pH Conditions I. Diaz-Moreno, S.M. Garcia-Mauriño, R. Del Conte, J. Angulo, B.G. Karlsson, M. Gorospe, J. Wilce and I. Cruz-Gallardo. Univ. of Seville, CSIC; Univ. of Florence; Sch. of Pharm., Univ. of East Anglia, U.K.; Univ. of Gothenburg; NIA, NIH, Baltimore and Monash Univ., Australia.


A40  711.7 Structural Characterization of nc886, a Cellular Non-coding RNA Regulator of the Antiviral Kinase PKR B.M. Calderon and G.L. Conn. Emory Univ.

A41  711.8 The tRNA Methylome of Trypanosoma brucei, the Causative Agent of African Sleeping Sickness J.C. Lazatin, L.M. Chen, S.A. Ackerman, J. Wang, E. Valentine, A. Mandarano and K.T. Miliello. SUNY at Geneseo and NYS Ctr. of Excellence in Bioinfomat. and Life Sci.

A42  711.9 Structure and Function of the HTLV-1 pro-pol Frameshift Site D.P. Chadeayne, S. Davis, S. GreyEyes, A. Knewitz, J. Stelmaszek and K.D. Mouzakis. Fort Lewis Col., CO.

712. INTRINSICALLY DISORDERED PROTEINS, IDPS: PROTEIN FOLDING AS A REGULATORY PHENOMENON II

(Poster Session I scheduled on Sunday; Poster Session III scheduled on Tuesday)

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:55 PM—2:25 PM


A64 712.2 HSF4 Promotes Human Lens Epithelial Cells G1/S Arrest through Stabilizing p53 H. Mi and G. Meng. Huazhong Univ. of Sci. and Technol., China.


A68 712.6 Characterization of the Oligomeric Transition of E. coli γ-Glutamylcysteine Ligase E. Wiese, K. Diederichs and B.S. Kelly. Gustavus Adolphus Col., MN.


A70 712.8 The Intrinsically Disordered C-Terminal Domain Triggers Nucleolus Localization and Protein Interactions of Poly(A)-Specific Ribonuclease Y-B. Yan and G-J. He. Sch. of Life Sci., Tsinghua Univ., China.

A71 712.9 Construction of p53 Protein Tetramer Structure C. Carpenter. Vassar Col.

A72 712.10 Probing Disordered Region Influence on Pdx1 Binding to Natural Promoters and Near-Consensus Sites M. Bastidas and S.A. Showalter. Penn State.

A74 712.12 Structural Bioinformatics and Molecular Dynamics of p53 Tumor Suppressor Protein K.M. Thayer, B.R. Slaw, I. Han and T. Quinn. Vassar Col., NY.


A84 712.22 Molecular Dynamics of DNA Mechanical Contributions of Various Promoter Sequences in p53 Complexes Motivated by a Novel Additive Binding Energy Model I.S. Han and K.M. Thayer. Vassar Col., NY.

A85 712.23 Structural Point Mutations of p53 Protein and Their Effects on the Zinc Coordination Complex T.R. Quinn and K.M. Thayer. Vassar Col., NY.

714. CHANNELS AND TRANSPORTERS: WHAT’S NEW IN MEMBRANE TRANSPORT PROTEINS II

(Poster Session I scheduled on Sunday)

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:05 PM—1:35 PM


A98 714.3 Differential Ankyrin G Binding of Voltage-Gated Sodium and KCNQ2/3 Potassium Channels Is Mediated by an Overlapping N-Terminal Binding Site M. Xu and E. Cooper. Baylor Col. of Med.


A104 714.9 Proteolytic Digestion Reveals Novel Insights into the Kv1.5 Structure-Function Relationship A.M.A. Hogan-Cann and S. Zhang. Queen’s Univ., Canada.


A106 714.11 Scorpion Toxin BeKm-1 Blocks Low K⁺-Induced Endocytosis of Cell-Surface Human Ether-a-go-go Related Gene Channels X. Han, J. Guo, W. Li and S. Zhang. Queen’s Univ., Canada.


A110 714.15 Characterization of a Dihydropyridine-Insensitive Ca₂,3 Channel Y. Wang, A.E. Salyer, T. Li and G.H. Hockerman. Purdue Univ.

715. LIPIDS - IN VIVO DYNAMICS, PROTEIN PARTNERS AND SIGNALING II

(Poster Session I scheduled on Sunday)

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:05 PM—1:35 PM

A111 715.1 Monitoring the Dynamic Change of Inositol Lipid Pools upon EGFR and M,R Activation in Live Cells J.T. Toth, G. Gulyas, D.J. Toth, L. Hunyady, T. Balla and P. Varnai. Semmelweis Univ. and NICHD, NIH.


A114 715.4 Spatiotemporal Activation of Yeast Lipin Pah1 and Phospholipid Remodelling during Lipid Droplet Formation A.D. Barbosa, H. Sembongi, G-S. Han, W-M. Su, G. Carman and S. Siniossoglou. Univ. of Cambridge; Rutgers Ctr. for Lipid Res. and Rutgers Univ.


A120 715.10 Walnuts Rearrange the Lipid Mediator Composition of Lipoproteins Independent of Changes in Fatty Acid Precursors G.C. Shearer, J.W. Newman, R.R. Holt, C.L. Keen and R.M. Hackman. Penn State; USDA, Davis and Univ. of California, Davis.
A121 715.11 Differential Regulatory Response for the Δ9 Desaturase in Saccharomyces cerevisiae Based on Fatty Acid Species and Membrane-Altering Conditions M. Ochs, C. Schriemer and V. McDonough. Hope Col., MI.
A128 715.18 Lipin-1 Links Lipid Signaling with Inflammation M.A. Balboa, C. Meana, G. Lordén and J. Balsinde. CSIC – Univ. of Valladolid, Spain.
A129 715.19 Withdrawn.
A135 715.25 Phosphoinositide Binding to ErbB3-Binding Protein 1 Contributes to Its Nucleolar Localization A.E. Lewis, T. Karlsson and A. Altankhuyag. Univ. of Bergen.
716. BIOCHEMICAL PHARMACOLOGY

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:55 PM–2:25 PM


A177 716.15 Role of Cardiac miR-208a in Nebivolol-Mediated Signaling A. Mahmood, R. Gul, C. Luck and L. Pulakat, Univ. of Missouri-Columbia; Harry S. Truman Mem. Veterans’ Hosp. and King Saud Univ.

A178 716.16 Antioxidant Enzymes Activities and Lipid Peroxidation of Aqueous Extracts of Selected Vegetables in Isoproterenol-Induced Myocardial Infarction in Male Wistar Albino Rats J.E. Okpuzor and T.F. Salisu, Univ. of Lagos, Nigeria.


A180 716.18 Identification of Counterfeit TB Treatment Drugs E. May and S. Williams, Sch. of Chem. and Mat. Sci., Rochester Inst. of Technol.

717. MECHANISTIC IMPACTS OF POSTTRANSLATIONAL MODIFICATIONS II

(Poster Session I scheduled on Sunday)

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:55 PM–2:25 PM


A182 717.2 O-GlcNAcylation Modifies the Metastatic Properties of Prostate Cancer Cells X. Liu, S.M. Mooney and G.W. Hart, Johns Hopkins Univ. Sch. of Med.


A184 717.4 Protein Polyphosphorylation of Lysine Residues by Inorganic Polyphosphate C.M. Azvedo and A. Saiardi, University Col. London.

A185 717.5 PADlock Cryptanalysis: A Bayesian Approach to Identifying Trends in the Post-translational Modification Deimination J.S. Olson, J. Church and J. Grant, Univ. of Wisconsin-Stout.


A187 717.7 Deciphering the Functional O-GlcNAc Substrate Proteome M.R. Martinez, A. Pandey and N.E. Zachara, Johns Hopkins Univ.

A188 717.8 Defining the Mechanism of O-GlcNAc Signaling in Stress-Induced Autophagy and Cardioprotection K. Fahie, M. McCartin, M. Wolfgang and N. Zachara, Johns Hopkins Univ. Sch. of Med.


A190 717.10 SUMO-Binding Sites in Mouse Nrf2: Impact on the Transcriptional Activity of Nrf2 T.S. Walters, D.J. McIntosh and I.J. Arinze, Meharry Med. Col.


A195 717.15 Targeting Citrullination in the Injured Retina J.W. Wizeman, A.P. Nicholas and R. Mohan, Univ. of Connecticut Hlth. Ctr. and Univ. of Alabama at Birmingham.

A196 717.16 Protein Arginine Methylation of Tubulin Beta Decreases Binding of Taxol in Neuro2a Cells S.C. Pillier, N.K. Jwad, L. Hejazi, R. Gamsjaeger and N.J. Sucher, Univ. of Western Sydney and Roxbury Community Col., MA.

A197 717.17 Exploring the Importance of Dimerization for DJ-1 Function through Engineered Domain Fusions S.C. Hansen, J. Lin and M.A. Wilson, Univ. of Nebraska-Lincoln.

A198 717.18 Redox Control of Protein Arginine Methyltransferase 1 Activity J. Hevel, Y. Morales, D.V. Nitzel, O.M. Price and S. Gui, Utah State Univ.


718. MOLECULAR MECHANISMS OF INFECTION AND IMMUNITY II

(Poster Session I scheduled on Sunday
Poster Session III scheduled on Tuesday)

Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:55 PM—2:25 PM

A201 718.1 Benzoylcodeine, a Major Cocaine Metabolite, Enhances HIV-1 Integration and Replication in Immune Cells


A204 718.4 Splicing Factor SON Mediates Macrophage Susceptibility to Intracellular Pathogens D.J. Gregory, I. Kramnik and L. Kobzik. Harvard Sch. of Publ. Hth. and Boston Univ.


A207 718.7 The Surfactant Protein A Receptor SP-R210 Variant Mediates Infection and Resolution of Influenza A Virus in the Lung L. Yang, S. Hu, E.S. Halstead and Z.C. Chroneos. Penn State Col. of Med.

A208 718.8 Macrophage Liver Kinase B1 Interacts with IKKβ and Inhibits Inflammatory Signaling in Response to LPS Z. Liu and M-h. Zou. Univ. of Oklahoma Hth. Sci. Ctr.

A209 718.9 Mapping the DNA and RNA Binding Domains of the HIV Restriction Factor APOBEC3G H.C. Smith, W. McDougall, B. Polevoda, A. Friedman, R. Bennett and R. Stewart. Univ. of Rochester and OyaGen Inc., Rochester.

A210 718.10 Fluorescent Labeling of the Carbohydrate Backbone of Peptidoglycan to Track Degradation In Vivo Y. Wang and C. Lemkuhl-Grimes. Univ. of Delaware.

A211 718.11 Effect of Pathway-Interconnectors in SEB-Induced Apoptosis Related Events in Human PBMCs W. Mills, A. Wampfler, K. Rothschild, K. Gilman and C. Mendis. Univ. of Wisconsin-Platteville.

A212 718.12 Function of KpsS, KpsC, and NeuE in Escherichia coli K1 Polysialic Acid Biosynthesis V. Thon, D. Peterson, J. Vionnet and W.F. Yann. FDA, Silver Spring, MD.


A216 718.16 Analysis of Mutant Constructs of Human BIK and their Interaction with KSHV vBCL-2 C. Normand, D. Kumarjiguda and J. Roecklein-Canfield. Simmons Col., MA.


A218 718.18 M1 Protein from GAS Protects against Histone Killing S. Döhrmann, C.N. LaRock, E.L. Anderson, B.K. Ryali, P. Ghosh and V. Nizet. UCSD.


A221 718.21 Role of the U2AF Homology Motif in Human Tat-SF1 as a Cofactor for HIV-1 Splicing S. Loerch and C.L. Kielkopf. Univ. of Rochester.


A224 718.24 Decidual Macrophages as an Ex Vivo Model to Study Active HIV-1 Viral Reservoir E.M. Albino, L.J. Godoy, C.M. Ortiz, F. Ramirez and M.D. Hill. and Hosp. Episcopal San Lucas, PR.


719. EXTRACELLULAR MATRICES IN HEALTH AND DISEASE I

(Poster Session II scheduled on Tuesday)

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER,
EXHIBIT HALLS A & B

Presentation time: 12:05 PM–1:35 PM

A227 719.1 Three-Dimensional Collagen IV and Hormone Proglin Regulate Breast Cancer Cell Invasion: Role of PAK1 and Matrix Metalloproteinases M. Diakonova, P. Oladimeji and L. Rider. Univ. of Toledo.


A229 719.3 Extracellular Matrix Fibronectin Attenuates PDGF-Induced Intracellular Calcium Release C.S. Farrar and D.C. Hocking. Univ. of Rochester.


A231 719.5 Trimeric G Protein Activation by the Non-receptor Protein GIV/ Girdin Is Required for Integrin Signaling A. Leyme, L. Perez-Gutierrez, L.T. Nguyen and M. Garcia-Marcos. Boston Univ.


A233 719.7 MAP1S-Enhanced Autophagy Alleviates Tissue Fibrosis and Sustains Mouse Survival under Stress Imposed by LC3-Induced Overexpression of Fibronectin L. Liu. Texas A&M Hlth. Sci. Ctr., Houston and College Station.


A241 719.15 Matricellular Protein Cyr61 Is a Key Mediator of Platelet-Derived Growth Factor-Induced Cell Migration M-Z. Cui, F. Zhang, F. Hao, D. An, L. Zeng and X. Xu. Univ. of Tennessee, Knoxville.


A244 719.18 Integrin Dysregulation as a Driver of Matrix Remodeling in a Model of Congenital Muscular Dystrophy A. Accorsi, T. Mehuron, A. Kumar, Y. Rhee and M. Girgenrath. Sargent Col., Boston Univ.


A248 719.22 CXCL12/SDF-1 Stimulates Megakaryocyte β-1,4-Galactosyltransferase 1 Activity to Enhance Platelet Production In Vivo S. Giannini, M. Adelman, A. Jurak Begonja and K.M. Hoffmeister. Brigham and Women’s Hosp. and Harvard Med. Sch. and Univ. of Rijeka, Croatia.
720. ENZYME EVOLUTION

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:05 PM–1:35 PM


A251 720.3 De Novo Protein Provides Life-Sustaining Enzymatic Function in Auxotrophic E. coli A. Mularz, B. Smith and M. Hecht. Princeton Univ.


A253 720.5 Physiological Characterization of Arginine Kinase Found in Caenorhabditis elegans M.R. Chin and D.J. Simonis. The Col. of Wooster.

A254 720.6 Conservation of Lipid Storage Droplet Proteins in Evolution of Animalia J. Bowman and J.T. Tansey. Otterbein Univ., OH.


721. ENZYME INHIBITION

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:05 PM–1:35 PM


A257 721.2 Effect of Curcumin and Silymarin in Combination Exerts Synergistic Inhibition of Colon Cancer Cell Proliferation A. Montgomery, N. Daniel and U. Ezekiel. Saint Louis Univ.

A258 721.3 Selective and Bioavailable Inhibitors of Collagen Prollyl 4-Hydroxylase J.D. Vasta, K.A. Andersen and R.T. Raines. Univ. of Wisconsin-Madison.


A263 721.8 Curcumin Inhibits DLD-1 Colorectal Cancer Cell Proliferation by Modulating MicroRNA and Tumor Suppressor Gene Expression T.A. Adeyeni, K. Vattathara, R. Duggirala, V. Selvamani and U.R. Ezekiel. Saint Louis Univ.

A264 721.9 AraL from Bacillus subtilis, a Phosphatase Member of the Nitropheryl Phosphatase Family of the HAD Superfamily J.T. Armeli, M. Madaio, J. Hill and S. O’Handley. Sch. of Chem. and Mat. Sci., Rochester Inst. of Technol.


A277 721.22 Targeting the AKT Pathway in Glioma by Using Bioinformatics Tools K. Bardhi, K. Bardhi, P.A. Craig and H.J. Bernstein, Rochester Inst. of Technol. and Dowling Col., NY.
A281 721.26 Inhibition of Neisseria meningitidis Group X N-Acetylglucosamine-1-Phosphotransferase by Donor Substrate Analogues E. Cottman-Thomas, S. Ming, L. Tedaldi, G. Wagner, Y. Chen, X. Chen, C. Cai, R. Linhardt and W. Vann. FDA, Silver Spring, MD; King’s Col. London; Univ. of California, Davis and Rensselaer Polytech Inst.
A294 721.39 Biochemical Reactivities of 1,2-Dehydro-N-[α-Alanyldopamine and the Mode of Action of Bioactive 1,2-Dehydrodopep peptides H. Barek, J. Evans and M. Sugumaran. Univ. of Massachusetts Boston.
A298 721.43 Whole Ethanolic Moringa oleifera Leaf Extract Exerts Anti-bacterial Activities against Escherichia coli Comparable to Tetracycline and Ciprofloxacine B.E. Smith, J. Emrani, J. Idassi, S. Jesmin and C. Mowa. Appalachian State Univ.; North Carolina A&T State Univ.; Univ. of Johannesburg; Univ. of Tsukuba Sch. of Med. and Univ. of Witwatersand, South Africa.
A299 721.44 Identifying Activators of the Mobile Element L1 Endonuclease J. Meyers, L. Darthard, G. Servant, V. Streva and C. DeFrecce. Xavier Univ. of Louisiana; Tulane Univ. and Boston Children’s Hosp.
A300 721.45 Synthesis, Cytotoxicity, and DNA-Binding Studies of the Natural Product Eudistomin U J. Giulietti, P. Tate, C. Roggero, S. Mulcahy and B. Cho. Providence Col. and Univ. of Rhode Island.
A301 721.46 Characterizing Inhibitors of the Human Mobile Element L1 Endonuclease L. Darthard, J. Meyers, G. Servant, V. Streva and C. DeFrecce. Xavier Univ. of Louisiana; Tulane Univ. and Boston Children’s Hosp.
722. ENZYME KINETICS

Poster
Mon. 7:30 AM—Boston Convention & Exhibition Center, Exhibit Halls A & B

Presentation time: 12:05 PM—1:35 PM


A310  722.7 Gemcitabine Is a Competitive Inhibitor of Cytidine-5'-Triphosphate Synthase that Induces Enzyme Filament Polymerization G.D. McCluskey and S.L. Bearne. Dalhousie Univ., Canada.

A311  722.8 Kinetic Characterization of the α-2,9 Polyolsialyltransferase of Neisseria meningitidis S. Ming, D. Peterson and W.F. Vann. FDA, Silver Spring, MD.


723. SMALL MOLECULE TOOLS FOR BIOLOGY

Poster
Mon. 7:30 AM—Boston Convention & Exhibition Center, Exhibit Halls A & B

Presentation time: 12:05 PM—1:35 PM


A320  723.2 Characterization of a Small-Molecule Modulator of IRE1α Activity J. Salami-Oyenuga, K. Raina and C. Crews. Yale Univ.


A322  723.4 Synthesis and Evaluation of Novel Photosolimerizable Small Molecules as Chemical Tools A.J. Engdahl and C.N. Streu. St. Mary's Col. of Maryland.

A323  723.5 Specific Induction of Golgi Stress by Targeted Protein Destabilization Y.V. Serebrenik and C.M. Crews. Yale Univ.


A325  723.7 Identification and Synthesis of D. athabasca Cuticular Hydrocarbons C.E. Bebernitz, J.D. Kehbeck, T. Harvey and R. Yukilevich. Union Col., NY.


A327  723.9 Proton Transfer to Flavin Stabilizes the Signaling State of the Blue Light Receptor Plant Cryptochrome T. Kottke, A. Hense, E. Herman and S. Oldemeyer. Bielefeld Univ., Germany.

A328  723.10 Improving the Uptake of L-Telluromethionine by Escherichia coli DL41(DE3) through the Use of Enhanced Chemically Defined Media B. Cooper, V. Sublett and J.O. Boles. Tennessee Tech Univ.


724. PROTEIN PHOSPHORYLATION AND DEPHOSPHORYLATION

Poster

**MONDAY 7:30 AM—BOston Convention & Exhibition Center, EXhiBit Halls A & B**

**Presentation time:** 12:05 PM–1:35 PM


A335 724.2 Identification of Env7 Phosphorylated Residues E. Garfinkle and E. Ghara'banian. California State Univ., Long Beach.


A337 724.4 PCTAIRE Kinase 3/Cyclin Dependent Kinase 18 Is Activated through Association with Cyclin A and/or Phosphorylation by Protein Kinase AS. Matsuda, K. Kominato, A. Tsuji and K. Yuasa. Univ. of Tokushima Grad. Sch.


A339 724.6 Erbin-Mediated Regulation of Colon Cancer P.D. Stevens, Y.-A. Wen, X. Li and T. Gao. Univ. of Kentucky.

A340 724.7 Reciprocal Regulation of Abi Kinase by CrkII Y251 and Abi1 Controls Cell Motility and Invasion in Glioblastoma S. Kumar, L. Kotula and R.B. Birge. Rutgers Univ. and SUNY Upstate Med. Univ.


A342 724.9 Spatiotemporal Analysis of the Role that Protein Kinase A Phosphorylation Plays in Gap Junction Assembly G. Sosinsky, G. Cavin, J. Solan, M. Kunkel, A. Newton, P. Lampe and A. Cone. UCSD and Fred Hutchinson Cancer Ctr., Seattle.

A343 724.10 Isoform Specificity and Phosphorylation Site Specificity for 14-3-3 Protein Binding to Tyrosine Hydroxylase Studied by Fluorescence Anisotropy and Chemical Cross-Linking S. Daubner, E. Vogt, E. Cruz and A. Rodriguez. St. Mary’s Univ.

A344 724.11 DUSP5 Functions in a Feedback Loop to Suppress Angiotsinen-Dependent Smooth Muscle Cell Proliferation and Pulmonary Arterial Hypertension B.S. Ferguson, K.M. Demos-Davies, M.A. Cavasin, H.N. Horita, M. Weiser-Evans, R.H. McKnight, R.H. Lane and T.A. McKinsey. Univ. of Colorado Denver, Aurora; Univ. of Utah and Med. Col. of Wisconsin.


A347 724.14 Sequential Phosphorylation of SIKE by TBK1 J.E. Bell, T. Kerckhoff, S-H. Kim and J. Bell. Univ. of Richmond and Univ. of San Diego.


A349 724.16 Self-Phosphorylation Primes JNK2 for Activation by MKK4 in Glioblastoma and Non-small Cell Lung Carcinoma T.S. Kaoud and K.N. Dalby. Univ. of Texas at Austin and Minia Univ., Egypt.


A353 724.20 Optogenetic Control of EphB Signaling in Dendrites C. Locke, Q. Yang, A. Taslimi, C. Tucker, Y. Wu and J. Yu. Univ. of Connecticut Hlth. Ctr. and Univ. of Colorado Denver, Aurora.


A355 724.22 Activation and Decay Kinetics of the RET Receptor Tyrosine Kinase S. Li, T.C. Ikezu and A. Whitty. Boston Univ.

A356 724.23 Using Small Molecule Inhibitor to Identify Zipper-Interacting Protein Kinase Substrates in Smooth Muscle Contraction Signaling Pathway A. Al-Ghabkari, M.P. Walsh and J.A. MacDonald. Univ. of Calgary, Canada.


A359 724.26 Casein Kinase 1 Alpha Promotes Nuclear Entry of PERIOD and Represses CLOCK Transcriptional Activity in the Drosophila melanogaster Circadian Clock V.H. Lam, Y.H. Li, K.A. Murphy, R.S. Kwok and J.C. Chiu. Univ. of California, Davis.

A360 724.27 A Newly Uncovered PPDK Regulatory Protein Isoform in Maize Catalyzes Regulatory Phosphorylation but not Dephosphorylation of PPDK C.J. Chastain. Minnesota State Univ. Moorhead.
725. CANCER METABOLISM: WARBURG AT 90

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:55 PM—2:25 PM

A361 725.1 Investigating the Use of Targeted Therapies for Triple-Negative Breast Cancer W. Bindeman, A.B. Redwood, B. Lukose and H. Piwnica-Worms. St. Olaf Col. and Univ. of Texas MD Anderson Cancer Ctr.

A362 725.2 Differential Effects of FAK and FGFR Inhibitors on Motility and Proliferation of L1-Positive versus L1-Negative Glioblastoma Cells H.J. Anderson and D.S. Galileo. Univ. of Delaware.


A364 725.4 Emerging Targets for Network-Based Therapy: End of a Long Futile Campaign Striking Heads of a Hydra P. Ghosh. UCSD.


A367 725.7 Hypoxia-Induced Carbonic Anhydrase IX Facilitates Lactate Transport in Human Breast Cancer Cells by Non-catalytic Interaction H.M. Becker, S. Jamali, M. Klier, L.F. Barros, R. McKenna and J.W. Deitmer. Univ. of Kaiserslautern; Centro de Estudios Científicos (CECS) and Univ. of Florida.


A370 725.10 Evaluating a Dichroacetate and Metformin Combination in a Mouse Model of Metastatic Cancer N.P. Ward, A.M. Poff, A.J. Van Putten, T.N. Seyfried and D.P. D’Agostino. Univ. of South Florida and Boston Col.


A372 725.12 GTP Metabolism Regulates Cancer Cell Invasion M.A. Nikiforov and A. Bianchi-Smiraglia. Roswell Park Cancer Inst.

A373 725.13 Ketosis and Hyperbaric Oxygen Metabolic Therapy Elicits Potent Anti-cancer Effects In Vitro and In Vivo A. Poff, N. Ward, T. Seyfried and D. D’Agostino. Univ. of South Florida and Boston Col.


A375 725.15 Metabolic Actions of Metformin in Cancer Cells and a Distinction of Metformin from the Effects of Rotenone, a Mitochondrial Complex I Inhibitor R. Parakhia, A. Parras, S. Gadhia, F. Barile and R. Ochs. St. John’s Univ., NY.

A376 725.16 Defining the Role of Arylsulfatase B (N-Acetylglucosamine 4-Sulfatase) in Cellular Metabolism S. Bhattacharyya, L. Feferman and J.K. Tobacman. Univ. of Illinois at Chicago and Jesse Brown VA Med. Ctr.


A381 725.21 Tip60 Overexpression Exacerbates Chemotherapeutic Drug Treatment in Breast, Pancreatic, and Lung Cancer Cell Lines P. Ravichandran and D.S. Ginsburg. Long Island Univ.


A385 725.25 Calcineurin Homologous Protein 2 Expression in Non-small Cell Lung Cancer M.F. Tran, M.J. Cain, M.A. Wallert and J.J. Provost. Univ. of San Diego; Mater Dei H.S., Univ. of California, Irvine; Univ. of South Carolina, Columbia.


A387 725.27 The Warburg Effect as a VDAC-Hexokinase-Mediated Electrical Depression of Mitochondrial Energy Metabolism V.V. Lemesheko. Natl. Univ. of Colombia, Medellin.

A388 725.28 Acid Gradient across Plasma Membrane can Drive Phosphate-Bond Synthesis in Cancer Cells: Acidic Tumor Milieu Can Act as a Potential Energy Source G. Dhar, S. Sen and G. Chaudhuri. UCLA.


726. HOMEOSTASIS

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:55 PM—2:25 PM


A394 726.3 Tributyltin Decreases Secretion of Interleukin 6 from Human Immune Cells W.J. Wilburn, S. Brown and M. Whalen. Tennessee State Univ.


A398 726.7 Effects of Tributyltin Exposures on Interleukin 1 Beta Secretion and Production from Human Immune Cells S. Brown and M. Whalen. Tennessee State Univ.

A399 726.8 Induction of Endogenous Interleukin 1 Alpha Limits to One Cycle the Proliferative Response to FGF I. Prudovsky, A. Poole, E. Cooper and D. Kacer. Maine Med. Ctr.


A402 726.11 Investigating the Role of Antioxidants in Protecting Saccharomyces cerevisiae from Oxidative Damage N. Thompson-Van Hook and S. Mordan-McCombs. Franklin Col. of Indiana.

A403 726.12 Investigation of Cysteamine as a Potential Antioxidant Supplement in TRX1 Yeast Mutants A. Hendershot and S. Mordan-McCombs. Franklin Col. of Indiana.


727. NEUROBIOLOGY

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:55 PM—2:25 PM


A410 727.3 Calcyon Regulates Axonal Transport of P14K11a Vesicles in Cultured Rat Sensory Neurons Z. Roth, L. Shi and D. Smith. Univ. of South Carolina.

A411 727.4 Colocalization of CHL1 and ROBO1 during Embryonic Development of Mouse Brain A.G. Wright, S. Sohail and D.T. Hackel. Marymount Univ.

A412 727.5 Western Blot Identification of Dopamine and GABA Receptors in Gill of the Bivalve Crassostrea virginica F. Mondelus, B. Boisette, F. Bess, E.J. Catapane and M.A. Carroll. Medgar Evers Col., Brooklyn.


728. SIGNAL TRANSDUCTION

Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:55 PM—2:25 PM

A425 728.1 MUC1-C Induces the LIN28B→LET-7→HMGA2 Axis to Regulate Self-Renewal in NSCLC. R. Ahmad, M. Alam, H. Rajabi and D. Kufe. King Saud Univ. and Dana-Farber Cancer Inst.


A427 728.3 Loss of agr Quorum Sensing and Virulence Function Leads to Early Growth Advantage in Staphylococcus aureus. Infection. A. Winnett and J. Femling. Univ. of Massachusetts Boston; Univ. of New Mexico Hosp. and Univ. of New Mexico.


A429 728.5 Determining the Genotype-Phenotype Relationship of atg18 Mutants. M.D. Fischer and E.M. Selva. Univ. of Delaware.


A433 728.9 ARD1 Controls Osteoblast Differentiation and Bone Formation as a Feedback Regulator of Runx2. H. Yoon and J-W. Park. Seoul Natl. Univ. Col. of Med.

A434 728.10 Improved Purification of Proglucagon and Major Proglucagon Fragment and Their Use in a PCSK1 Cleavage Assay. R.B. Mackin. Creighton Univ.


A438 728.14 Cell Type-Specific Expression of the Human RAP1A and RAP1B Genes J.L. Cruise, A. Niemela, R. Augustin, M. Painter and M. Hindt. Univ. of St. Thomas, MN.


A444 728.20 Regulation of cAMP-Dependent Protein Kinase A by Src Family Tyrosine Kinases. J. Mann and M. Weir. Univ. of Vermont.


A452 728.28 Identification of Fyn-Induced PKA Binding Partners Using Quantitative Proteomics M.E. Weir, J.E. Mann, B.A. Ballif and P.B. Deming. Univ. of Vermont.

A453 728.29 All-Atom Folding Simulations of Insulin B-Chain and its Mimetic Peptide H. Mohammadiarani and H. Vashisth. Univ. of New Hampshire.

A454 728.30 Developing Reagents and Methodologies to Measure Post-translational Modification of G Protein-Coupled Receptor Kinase 2 J. Keyoskey, A. Shareef, A. Grogan, T. Tagliafierro and R. Sterne-Marr. Siena Col., NY.

A455 728.31 Apoptotic and Inflammatory Role of TNF-α in Adult Rat Testis upon Ethylene Dimethane Sulfonate Treatment B. Singhal and N. Mills. Texas Woman’s Univ.


A458 728.34 C. elegans Troponin I Peptides from Helix 4 and the COOH-Terminus Bind Troponin C In Vitro: Novel Implications for the Structural Basis of Troponin’s Regulatory Mechanism D.E. Barnes and S. Ono. Emory Univ.


A460 728.36 A Novel Mechanism for 2-Deoxyglucose Toxicity Is Mediated by Glucose Transporter Endocytosis Regulated by Arrestins and AMP-Activated Protein Kinase M.C. Schmidt and A.F. O’Donnell. Univ. of Pittsburgh Sch. of Med. and Duquesne Univ.

A461 728.37 An Optogenetic Approach to Delineate Spatial Regulation of Plexin Signaling A. Deb Roy, T. Yin and Y. Wu. Univ. of Connecticut Hlth. Ctr.
729. GLOBAL NUTRITION: MICRONUTRIENTS

Poster

(Sponsored by: Global Nutrition Council (GNC))

MON 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)


C8 II 729.8 Serum Cytokine Levels in Healthy Mongolian School-Age Children Randomized to Either Vitamin D or Placebo G. Davaasambuu, Y. Enkhbold, N. Boldbaatar and J. Furtado. Harvard Sch. of Publ. Hlth.; Brigham and Women’s Hosp. and Harvard Med. Sch.; Univ. of Calgary, Canada and Boston Univ. Sch. of Publ. Hlth.

C9 I 729.9 Sociocultural Factors Affecting Sun Seeking Behavior for Infants Living in Rural or Urban Communities in Southern Ethiopia R.M. Larson, M. Girma and B.J. Stoecker. Oklahoma State Univ. and Hassawa Univ., Ethiopia.


C19 I 729.19 Breast Milk Iodine Concentration Correlated with Urinary Iodine Concentration of Infants from Southern Ethiopia T. Gebreeziabher and B.J. Stoecker. Hassawa Univ., Ethiopia and Oklahoma State Univ.


730. NUTRITION AND SUSTAINABILITY

Poster

Mon. 7:30 am—Boston Convention & Exhibition Center, Exhibit Halls A & B

Presentation time: 12:45 pm–1:45 pm (I); 1:45 pm–2:45 pm (II)

C24 II 730.1 Evaluation of Physical and Chemical Characteristics of Major Camel Muscles A.N. Al-Owaimer. King Saud Univ.


731. NUTRITION EDUCATION: CHILDHOOD OBESITY PREVENTION

Poster

(Sponsored by: Nutrition Education and Behavior Science RIS)

Mon. 7:30 am—Boston Convention & Exhibition Center, Exhibit Halls A & B

Presentation time: 12:45 pm–1:45 pm (I); 1:45 pm–2:45 pm (II)

C32 II 731.1 Behavioral and Predictive Validation of a Self-Assessment of Parenting Style in Low-Income Parents of Young Children L. Ontai, C. Sutter, M. Shilts and M.S. Townsend. Univ. of California, Davis.


C35 I 731.4 Effectiveness of a Multicomponent Environmental Intervention on Adiposity and Behavioural Measures in Middle School Adolescents: A Randomized School-Based Controlled Study M.M. Corsi Romanelli, F. Ermetici, S. Briganti, R. Zelaschi, E. Dozio, L. Moricone and A.E. Malavazos. Univ. of Milan and IRCCS Policlinico San Donato, Milan.


C37 I 731.6 Fast Food, Fat and Sugar Sweetened Beverage Items are Related to Children's Dietary Energy Density M.K. Shilts, D. Styne, C. Drake, C. Aden and M.S. Townsend. Univ. of California, Davis; California State Univ. Sacramento and Univ. of California, Davis Med. Sch.

C38 II 731.7 Short Pictorial Vegetable Behavioral Scale Demonstrates Convergent Validity with MyPlate Cup Equivalents of Vegetables M.S. Townsend, M. Shilts, D. Styne, C. Drake, C. Aden and L. Ontai. Univ. of California, Davis; California State Univ. Sacramento and Univ. of California Davis Med. Sch.

C39 I 731.8 Factors Associated with Meeting Public Health Recommendations for Beverage Intake in Young Children T. Mesa, J.A. Wright and A.C. Lindsay. Univ. of Massachusetts Boston and Harvard Sch. of Publ. Hlth.
C40 II 731.9 Using Random Forest Method to Select Most Valued Items on a Healthy Weight [Obesity Risk] Survey for Young Children C. Aden, C. Drake, M. Shilts and M.S. Townsend. Univ. of California, Davis and California State Univ. Sacramento.

C41 I 731.10 Examining Junior High and High School Students’ Willingness to Consume Foods and Beverages Recommended by the 2010 Dietary Guidelines for Americans B. Zawodniak, M. Cater, D. Miketinas and G. Tuuri. LSU and LSU Agr. Ctr., Baton Rouge.

C42 II 731.11 Relationships between Adiposity and Fasting Blood Lipids, Glucose, and Insulin in 4th-Grade Children Participating in the Shaping Healthy Choices Program L.M. Nguyen, R.E. Scherr, J.D. Linnell, C.L. Keen, S. Miyamoto, F.M. Steinberg, H.M. Young and S. Zidenberg-Cherr. Univ. of California, Davis.

C43 I 731.12 Preventing Childhood Obesity through Healthy Diet, Physical, and Stress-Reduction Activities G.R. Nondi, J.F. Houston and E.A. Frongillo. Univ. of South Carolina.

C44 II 731.13 Short Pictorial Sweetened Beverage Scale Demonstrates Convergent Validity with Diet Logs M.S. Townsend, M. Shilts, D. Styne, C. Aden and C. Drake. Univ. of California, Davis; Univ. of California, Davis Med. Sch. and California State Univ. Sacramento.


732. NUTRITION EDUCATION: DEVELOPING HEALTHY EATING AND PHYSICAL ACTIVITY BEHAVIORS ACROSS THE LIFESPAN

Poster

(Sponsored by: Nutrition Education and Behavior Science RIS)

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)

733. SPORTS NUTRITION: NUTRITION, DIETARY SUPPLEMENTS AND HUMAN PERFORMANCE

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)

C60 II 733.1 Eating Habits and Patterns of Female College Athletes S. Markovic, J. Phelps, T. Crook and R. Hakkak. Univ. of Arkansas for Med. Sci.


C62 II 733.3 A Novel Cell-Based Screening Assay to Assess the Effects of Diverse Protein Sources on Muscle Protein Signaling D.A. Roeseler, N.J. McGraw, D.N. Butteiger, N. Napawan, J. Hall-Porter and E.S. KruI. DuPont, St. Louis.


C65 I 733.6 The Majority of Athletes Participating in Winter Multisport Events and Ironman Fail to Meet Recommended Intakes for Endurance Sports G. Masson and B. Lamarche. Laval Univ., Canada.


C70 II 733.11 Effects of Acai Berry Supplementation on Exercise Adaptation of Mice H. Minagawa, Y. Matsunaga, N. Takei and H. Hatta. The Univ. of Tokyo.

C71 I 733.12 Effect of Dietary Intake on Subjective Condition of and Oxidative Stress in Endurance-Trained Athletes Y. Okumura, E. Maeshima and S. Tomokane. Osaka Univ. of Hlth. and Sport Sci.

C72 II 733.13 Behaviors Associated with Muscularity Dissatisfaction of Male High School Students in the Bangkok Metropolitan Region P. Chongwatpol and G. Gates. Oklahoma State Univ.


C76 II 733.17 Examining the Relationships between Dietary Intake, Iron Status, and Physical Performance in Female Collegiate Rowers D.M. DellaValle, D.C. Rousseau, S. Wadsten and J.D. Haas. Med. Univ. of South Carolina; Univ. of Georgia and Cornell Univ.


C78 II 733.19 Health Benefits of a Pulse-Based Diet for Soccer Players during Regular Season Play A. Hanifi, E. Mizelman, D. Michel, M. Kaviani, P. Chillibeck and G. Zello. Univ. of Saskatchewan.

C79 I 733.20 Differences in Bone Turnover and 25(OH)D Change in Indoor Athletes C.R. Teager, M. Redzic, E.P. Cassidy and D.T. Thomas. Univ. of Kentucky.

C80 II 733.21 Body Composition Assessment of Nutritional Status Using Near-Infrared Spectroscopy, Bioelectrical Impedance and Air Displacement Plethysmograph in Young Athletes A.N. Mendoza, M.J. Aviles and C.P. Sanchez. UPAEP, Puebla, Mexico.

C81 I 733.22 Prevalence of Performance-Enhancing Protein Supplements and Anabolic-Androgenic Steroid Use among Young Kuwaiti Males Attending Gym T.A. Zafar. Kuwait Univ.

734. DAIRY AND YOGURT: HEALTH AND NUTRITION EFFECTS

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)

C82 II 734.1 Effects of Camel Casein Hydrolysate Addition on Microbiological and Rheological Properties of Yoghurt A. Alsaleh, A. Metwalli, E. Ismail and A. Alkhaliha. King Saud Univ.


C84 II 734.3 Chemical Composition, Probiotic Survivability and Shelf Life Studies of Symbiotic Buttermilk D. Zhang, X. Wang and M. Guo. Univ. of Vermont.
735. NUTRITION EPIDEMIOLOGY: EPIDEMIOLOGIC METHODS IN EXAMINING HEALTH OUTCOMES IN DIVERSE POPULATIONS

Poster

(Sponsored by: Nutritional Epidemiology RIS)
(Cosponsored by: Minority and Diversity Affairs Committee)
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)

C97 I 735.1 Double Sampling with Multiple Imputation to Answer Large Sample Meta-Research Questions: Introduction and Illustration by Evaluating Adherence to Two Simple CONSORT Guidelines P.L. Capers, A.W. Brown, J. Dawson and D.B. Allison. Univ. of Alabama at Birmingham

C98 II 735.2 Associations of Parathyroid Hormone Concentration among Alaska Natives of Western Alaska B. Luick, A. Bersamin and J.S. Stern. Univ. of Alaska Fairbanks and Univ. of California, Davis.


736. NUTRITION EPIDEMIOLOGY: EPIDEMIOLOGICAL RESEARCH ADDRESSING DIET AND HEALTH OUTCOMES

Poster

(Sponsored by: Nutritional Epidemiology RIS)

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)


C105 I 736.5 American Minor Dietary Patterns and Age-Related Macular Degeneration C.-J. Chiu, M.-L. Chang, T. Li, G. Gensler and A. Taylor. USDA at Tufts Univ.; Tufts Univ., Boston; Harvard Univ. and The Emmes Corp., Rockville, MD.


C108 II 736.8 Association between Phosphorus Intake and Bone Health in the NHANES Population S.S. Cho and A.W. Lee. NutraSource Inc., Clarksville, MD and Royal Oak, MI.


C110 I 736.10 Validity of Food Frequency Questionnaire May Be Improved by Factoring Gender in Development Stage H. Lee, J.E. Shim and H.Y. Paik. Seoul Natl. Univ. and Daejeon Univ., South Korea.

C111 II 736.11 Association of Nut Consumption and Lung Cancer Risk in a Large Population-Based Case-Control Study J.T. Lee, T.K. Lam, D. Consonni, A.C. Pesatori, P.A. Bertazzi and M.T. Landi. NCI, NIH and Univ. of Milan.


C116 II 736.16 Maternal Mental Health Symptoms are Positively Related to Emotional and Restrained Eating Attitudes in a Statewide Sample of WIC Participants J.A. Emerson, K.M. Hurley, L.E. Caulfield and M.M. Black. Johns Hopkins Bloomberg Sch. of Publ. Hlth. and Univ. of Maryland Sch. of Med.

C117 II 736.17 Mediterranean Diet Is Associated with Glycemic Control and Cardiovascular Risk Factors in Youth with Type 1 Diabetes: The SEARCH Nutrition Ancillary Study V.W. Zhong, A. Lamicchane, J. Crandell, S. Couch, A. Liese, N. The, D. Dabelea, J. Lawrence, G. Kim, S. Marcovina and E. Mayer-Davis. Univ. of North Carolina at Chapel Hill; Univ. of Cincinnati; Univ. of South Carolina; Furman Univ.; Univ. of Colorado; Kaiser Permanente Southern California; Seattle Children's Hosp. and Univ. of Washington.


C121 II 736.21 Association between Fructose, Uric Acid and Blood Pressure G.G.C. Kuhnle, N. Tasevska and K-T. Khaw. Univ. of Reading; Univ. of Cambridge and Arizona State Univ.


C124 II 736.24 The Role of Food in Low-Level Arsenic Exposure among Children from Montevideo, Uruguay K. Kordas, F. Peregalli, E.I. Queirolo, N. Manay and M. Vahter. Univ. of Bristol; Pereira Rossell Hosp., Montevideo; Catholic Univ. of Uruguay; Univ. of the Republic, Uruguay and Karolinska Inst.


C129 II 736.29 Risk of Gestational Diabetes Mellitus Associated with Dietary Patterns during Pregnancy May Not Be Mediated by Inflammation D. Shin and W.O. Song. Michigan State Univ.


C133 II 736.33 Standardization of Food Composition Database in Latin American Nutrition and Health Study (ELANS): Preliminary Data I. Koválskys, M. Fisberg, G. Gómez, A. Rigotti, Y. Cortés, M. Yezes, R. Pareja, M. Herrera, R. Fisberg, V. Guajardo, I. Zimberg, N. França, P. Amigo and G. Echeverría. ILSI, Argentina; Fed. Univ. of São Paulo; H.Sabara, Brazil; Univ. of Costa Rica; Pontifical Catholic Univ. of Chile; Pontifical Xavierian Univ., Colombia; Univ. San Francisco , , Quito; Nutr. Res. Inst., Peru; Central Univ. of Venezuela and Univ. of São Paulo.


C140 II 737.2 mTORC1 Nutrient Signaling and Autophagy in Young and Older Skeletal Muscle after Bed Rest and Rehabilitation R. Tanner, L. Brunker, J. Agergaard, O-S. Kwon, K. Barrows, D. McClain and M. Drummond. Univ. of Utah.


738. AGING: NUTRITION AND OSTEOPOROSIS

Poster
(Sponsored by: Aging and Chronic Disease RIS)

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)

C144 II 738.1 The Effect of a Symbiotic Diet on Bone Structure in Aging Male Mice M.T. Choman, C. Blanton and A. Gabaldón. Colorado State Univ. – Pueblo and Idaho State Univ.

C145 I 738.2 Assessing Nutritional and Vitamin D Status of Postmenopausal Obese and Osteosarcopenic Obese Women J.E. Inglis, O.J. Kelly and J.Z. Ilich. Florida State Univ. and Abbott Nutr., Columbus.

C146 II 738.3 Do Food Group Intake and Physical Activity during Growth Spurt Have Impact on Bone Health during Adulthood E. Movassagh and H. Vatanparats. Univ. of Saskatchewan.

C147 II 738.4 Adipokines as Mediators of Bone Density in Overweight/Obese Postmenopausal Women after 6-Month Weight Loss Program P. Jafarinasabian, Y-C. Chi and J.Z. Ilich. Florida State Univ.


737. AGING: NUTRITION AND SARCOPENIA

Poster
(Sponsored by: Aging and Chronic Disease RIS)

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)

C151 I 738.8 Effect of Total Protein Intake on Bone Health in Overweight and Obese Adults following a 36-Week Exercise and Diet Intervention C.S. Wright, E.M. Weihenmeyer-Haus and W.W. Campbell. Purdue Univ.

C152 II 738.9 Validation of a Food Frequency-Screening Instrument to Assess Dietary Calcium Insufficiency in a Large Population in South Korea M-H. Kim and Y-J. Bae. Korea Natl. Univ. of Transportation and Shinhan Univ., South Korea.

C153 I 738.10 Effect of Adding Tai Chi to a Dietary Weight Loss Program on Bone Mineral Density in Obese Older Women C.E. Paulin, M. Benson, N. Beebe, L. Katakowski, F. Xu, M.J. Delmonico and I.E. Lofgren. Univ. of Rhode Island.


739. NUTRITION TRANSLATION: NUTRITION SCIENCE FOR PUBLIC POLICY, PRACTICE AND THE CONSUMER

Poster

(Sponsored by: Nutrition Translation Ris)

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM—1:45 PM (I); 1:45 PM—2:45 PM (II)

C158 II 739.1 Total Vegetable and White Potato Consumption of Women of Childbearing Age M.L. Storey and P.A. Anderson. Alliance for Potato Res. and Educ., McLean, VA.


C160 II 739.3 Variability of Portion Sizes within Popular Italian Restaurant Chains M. Nickle and P. Pehrsson. USDA, Beltsville.
741. NUTRITION POLICIES AND PROGRAMS: IMPLEMENTATION, EVALUATION, AND MONITORING

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)

C174 II 741.1 FDA’s Evaluations of GRAS Food Ingredients J. Dausch. FDA, College Park, MD.


C177 I 741.4 Defining Protein Foods J. Hess and J. Slavin. Univ. of Minnesota.


C184 I 741.11 The Center for Nutrition, Learning, & Memory: Together Addressing a Grand Challenge C. Moulton, E. Wee, M. Kuchan, K. Garleb and N. Cohen. Abbott Labs., Champaign, IL; Abbott Labs., Columbus, OH and Univ. of Illinois at Urbana-Champaign.

C185 II 741.12 Impact of Milk Packaging Changes on Children’s Milk Consumption B. Yon. Univ. of Vermont.

742. ENERGY AND MACRONUTRIENT METABOLISM: PROTEIN AND AMINO ACID METABOLISM

Poster

(Sponsored by: Energy & Macronutrient Metabolism RIS)

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)


C191 I 742.2 The Role of Heparin in Metabolic Adaptation under High-Protein Diet T. Chalvon-Demersay, P.C. Even, B. Viollet, C. Chaumontet, D. Tomé, M. Forzet and D. Azzout-Marniche. AgroParisTech, INRA; INSERM U1016; CNRS and Univ. Paris Descartes.


C198 II 742.9 Protein Requirements in Children with Phenylketonuria A. Turki, K. Ueda, B. Cheng, A. Giez, S. Stockler and R. Elango. BC Children’s Hosp., Vancouver and Univ. of British Columbia.


C200 II 742.11 Nonessential Amino Acids as Nitrogen Sources in Adult Men Examined Using the Indicator Amino Acid Oxidation Technique L. Cooper, R. Ball, P. Pencharz, R. Sakai and R. Elango. Univ. of British Columbia; Ajinomoto Co. Inc., Kawasaki; Hosp. for Sick Children, Toronto and Univ. of Alberta.

C201 I 742.12 Acute Effect of Whey Protein Microgels on Whole Body Protein Turnover in Overweight Adults J-P. Godin and A. Kassis. Nestlé, Lausanne.


C205 II 742.16 Leucine and Omega-3 Fatty Acids Regulate Cell Bioenergetics via mTOR J.L. Baum, S.A. Shouse, K. Lassiter, W.G. Bottje and S. Dridi. Univ. of Arkansas.

473. ENERGY AND MACRONUTRIENT METABOLISM: LIPID AND FATTY ACID METABOLISM AND TRANSPORT

Poster
(Sponsored by: Energy & Macronutrient Metabolism RIS)
MON. 7:30 AM — BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM – 1:45 PM (I), 1:45 PM – 2:45 PM (II)

C206 II 743.1 Adipocyte Ablation of Long-Chain Acyl-CoA Synthetase-4 (ACSL4) Protects against Diet-Induced Obesity E.A. Killion, M-J. Lee, R.A. Coleman and A.S. Greenberg. USDA at Tufts Univ.; Boston Univ. Sch. of Med. and Univ. of North Carolina at Chapel Hill.


C208 II 743.3 Relative VO2 max Correlates with Lipoprotein Subfractions in Response to Four Different Exercise Modalities A. Kieffer, B. Lambert, S. Crouse and R. Walzem. Texas A&M Univ.

C209 I 743.4 SCD1 Inhibition Modifies Fatty Acid Regulation of Adipocyte Inflammation and Lipid Content J.C. Ralston, A.H. Metherel, K.D. Stark and D.M. Mitch. Univ. of Guelph and Univ. of Waterloo, Canada.


C212 II 743.7 Differential Effects of Sphingomyelins Derived from Milk and Egg on Response to a High-Fat Diet G.H. Norris, N.J. Farrell and C.N. Blesso. Univ. of Connecticut.

C213 I 743.8 Delta-6 Desaturase Substrate Competition between 16:0 and 18:2n-6 or 18:3n-3 May Limit the Accumulation of 16:1n-10 H.G. Park, K. Kothapalli, W.J. Park, P. Lawrence, L. Liu and J.T. Brenna. Cornell Univ. and Gangneung-Wonju Natl. Univ., South Korea.

C214 II 743.9 Attenuation of mTORC1-Driven Overproduction of ApoB-Containing Lipoproteins by Aromatic Fatty Acid Phenylbutyric Acid J.L. Roberts and R. Moreau. Univ. of Nebraska-Lincoln.


C219 I 743.14 Lipid Emulsion Halts the Progression of Non-alcoholic Fatty Liver Disease in Nonobese Mice Fed a Liquid High Carbohydrate Diet K-H. Huang, L. Hao, P.B. Smith, A.D. Patterson and A.C. Ross. Penn State.


744. ENERGY AND MACRONUTRIENT METABOLISM: ENERGY AND MACRONUTRIENT METABOLISM AND THE GUT

Poster

(Sponsored by: Energy & Macronutrient Metabolism RIS)

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)


C226 II 744.5 Impact of High and Low- FODMAP Interventions on Free-Living Subjective Appetite E.W. Kerr and K.J. Melanson. Univ. of Rhode Island.

C227 I 744.6 Short Chain Fatty Acid Production and Glucose Responses by Methane Producers B. Rust, I. Gray, D. Kieffer, J.W. Newman, D. Cooper, L. Welch, W. Horn, M. Marco, C. Pelkman and N. Keim. Univ. of California, Davis; USDA, Davis and Ingredion, IL.

C228 II 744.7 Slower Rate of Fat Absorption at Dinner versus Lunch Is Associated with Lower Concentrations of Triacylglycerols the Following Morning M. Jacome-Sosa, Q. Hu, C. Manrique and E.J. Parks. Univ. of Missouri-Columbia.

C229 I 744.8 AMPKα1 Subunit Is Required for Proper Intestinal Epithelial Differentiation X. Sun, Q. Yang, X. Fu, X. Liang, C.J. Rogers, M. Du and M. Zhu. Sch. of Food Sci., Washington State Univ.; Sch. of Food Sci., Univ. of Idaho and Washington State Univ.

745. ENERGY AND MACRONUTRIENT METABOLISM: METABOLIC PHENOTYPING, METABOLICOMICS AND BIOMARKERS

Poster

(Sponsored by: Energy & Macronutrient Metabolism RIS)

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)


C231 I 745.2 NMR-Based Metabolomics Analysis in Muscle and Serum of Middle-Aged Ovariectomized Rats Supplemented with 6-Month Green Tea Polyphenols F. Assadi-Porter, E. Selen and C. Shen. Univ. of Wisconsin-Madison and Texas Tech Univ. Hlth. Sci. Ctr.


C235 II 745.6 Effects of Polyphenols on the Endogenous Formation of Nitroso Compounds in Simulated Gastric Conditions V. Sági-Kiss, M. Pitzalis and G.G. Kuhnle. Univ. of Reading, U.K.

747. OBESITY: BODY COMPOSITION

Poster

(Sponsored by: Obesity RIS)

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIB HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)


C244 I 747.3 Thigh Volume Ratios Assessed via Stereovision Body Imaging as a Predictor of Visceral Adiposity Measured by Magnetic Resonance Imaging J. Freeland-Graves, J.J. Lee and B. Xu. Univ. of Texas at Austin.


C246 I 747.5 Body Composition and Its Relationship with Metabolic Profile in School-Age Children C. Nápoli, S. Videueros, I. Fernandez, A. Paganini, G. Tarducci and A. Pallaro. Sch. of Pharm. and Biochemistry. Univ. of Buenos Aires and Univ. of La Plata, Argentina.


C250 I 747.9 Validation of Self-Reported Obesity Measurements from the Guam Youth Risk Behavior Surveillance System Y.C. Paulino, M.L. Rosadino and A.A. Uncango. Sch. of Nursing and Hlth. Sci., Univ. of Guam; Guam Behav. Hlth. and Wellness Ctr. and Dept. of Publ. Hlth. and Soc. Svcs., Mangilao, Guam.


C252 I 747.11 Regional Fat Mass Estimations in Caucasian Adults from Regional Subcutaneous Fat Thickness Measured by Ultrasound M. Wall, A.B. Welk and R.T. Davidson. Logan Univ., MO.

C253 II 747.12 Diet Quality and Adiposity in Adolescents K. Mellendick, L. Shanahan, L. Wideman, S. Calkins, S. Keane and C. Lovelady. Univ. of North Carolina at Greensboro and Univ. of North Carolina at Chapel Hill.

C254 I 747.13 The Impact of Coconut and Safflower Oils on Body Composition M. Harris, L. Fryda and A. Hutchins. Univ. of Colorado Colorado Springs.


C257 II 747.16 Using Multiple Frequency Bioelectrical Impedance to Determine Regional Body Composition R.T. Davidson, B.A. Jones and G.W. Danhoff. Logan Univ., MO and Missouri Baptist Univ.


C260 I 747.19 Adiposity Predicts Vitamin D Status of Children C.E. Moore and Y. Liu. Texas Woman’s Univ. and CNRC, Baylor Col. of Med.

C261 II 747.20 The Impact of Sugar Sweetened Beverage Intake on Hunger and Satiety in Minority Adolescents G.E. Shearer, G.A. O’Reilly, B. Belcher, M.J. Daniels, M.I. Goran, D. Spruijt-Metz and J.N. Davis. Univ. of Texas at Austin; Univ. of So. California and NCI, NIH.


C263 II 747.22 Prevalence of Food Addiction in Overweight/Obese Adolescents as Measured by the Yale Food Addiction Scale E. Yakes Jimenez, A. Harris, S. Sanders, M. Bodo, S. Feldstein Ewing and A. Kong. Univ. of New Mexico.

748. NUTRIENT-GENE INTERACTIONS: GENOMICS, PROTEOMICS, AND METABOLOMICS

Poster

(Sponsored by: Nutrient-Gene Interactions RIS)

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)


C266 II 748.2 Arginine Silicate Supplementation Decreases Markers of Cardiovascular, Renal and Metabolic Dysfunction and Increases Markers of Vasodilation and Cardiovascular Health in Healthy Adult Males J. Komorowski, S. Rood-Ojalso and A. El-Sohemy. Nutr. 21 LLC, Purchase, NY and Univ. of Toronto.


C268 II 748.4 A Non-targeted Metabolomic Approach to Identify Potential Plasma Lipophilic Biomarkers of Inadequate Vitamin B₆ Status, Induced by Low B₆ Intake, Exposure to the Anti-B₆ Factor 1-Amino D-Proline, or Their Interaction, in a S. Mayengbam, J.D. House and M. Aliani. Univ. of Manitoba and St. Boniface Hosp. Res. Ctr., Univ. of Manitoba.

C269 I 748.5 Increased Accumulation of Long-Chain Fatty Acids in Skeletal Muscle May Contribute Insulin Resistance in Znt7 Knockout Mice S. Tepaamorndech, C. Kirschke, T. Pedersen, W. Keyes, J. Newman and L. Huang. USDA, Davis and Univ. of California, Davis.


C271 I 748.7 Integrated datasets characterize metabolic interactions between mouse’s colonic mucosa, colonic-cecal contents and feces H. Zeng, D. Grapov, M. Jackson, J. Fahrmann, O. Fiehn and G. Combs, Jr. USDA, Grand Forks; Univ. of California, Davis and Hill's Pet Nutr. Inc., Topeka.

749. NUTRIENT-GENE INTERACTIONS: EPIGENETICS

Poster

(Sponsored by: Nutrient-Gene Interactions RIS)

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)


C281 I 749.10 Effects of In Utero Nutrition Perturbation on Epigenetic Reprogramming in Sperm Cells J. Xue and F.Y. Ideraanabullah. Univ. of North Carolina at Chapel Hill, Kannapolis and Univ. of North Carolina at Chapel Hill.
750. NUTRIENT-GENE INTERACTIONS: OBESITY AND INFLAMMATION

Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)

C282 II 750.1 Effect of n-3 Fatty Acids and Their Derivatives on the Expression of Inflammatory Genes in Cultured THP1 Macrophages B. Allam-Ndoul, M-C. Vohl, F. Guénard and O. Barbier, Laval Univ., Canada.

C283 I 750.2 Effect of Agar-Free Gelidium amansii on Obesity in DIO C57BL/6J Mice Model S. Choi, H. Oh, J. Jung, S. Park, Y.I. Park, S. Bak and M. Lee. Sungshin Women’s Univ. and Gachon Univ., South Korea.

C284 II 750.3 Inhibition of Acetyl-CoA Carboxylase Activity Prevents Adipocyte Differentiation in 3T3-L1 Cells E.L. Cordonier, S. Jarecke, F.E. Hollinger and J. Zempleni. Univ. of Nebraska-Lincoln.


C290 II 750.9 Eicosapentaenoic Acid Increases Brown Adipose Tissue Thermogenic Markers in High Fat Fed Mice M. Pahlavani, F. Razafimanjato, N.S. Kalupahana, S. Scoggin, L. Ramalingam and N. Moustaid-Moussa. Texas Tech Univ. and Univ. of Peradeniya, Sri Lanka.

C291 I 750.10 Effects of Plasma Phospholipid Fatty Acid Composition and PPAR-α L162V Polymorphism on C-Reactive Protein Levels in Response to an n-3 Fatty Acid Supplementation B.L. Tremblay, I. Rudkowska, S. Lemieux, P. Couture and M-C. Vohl. Laval Univ. and CHU Quebec Res. Ctr.

751. NUTRIENT-GENE INTERACTIONS: BIOMARKERS

Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)

C292 II 751.1 Common rs3808607 Polymorphism in the Cholesterol 7α-Hydroxylase (CYP7A1) Gene Determines the Degree of Responsiveness of Circulating Cholesterol Concentrations to Dietary Consumption M. Abdullah, P. Eck, P. Couture, B. Lamarche and P. Jones. Univ. of Manitoba and Laval Univ., Quebec.


C295 I 751.4 Biomarkers of Oxidative Stress Induced by Leafchates from Lagos, Nigeria as Indicators of Environmental Pollution in African Cat Fish (Clarias gariepinus) F.I. Osuala, A.A. Ottololo and N.M. Igwo-Ezikpe. Univ. of Lagos and Col. of Med., Lagos, Nigeria.

C296 II 751.5 Ranges of Phenotypic Flexibility in 100 Healthy Subjects S. Wopereis, G. Bakker, C. de Jong-Rubingh, A. Dijk-Stroee, T. van den Broek, B. van Ommen and M. van Erk. TNO, Zeist, Netherlands.

752. DIET AND CANCER: MOLECULAR TARGETS

Poster
(Sponsored by: Diet and Cancer RIS)
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)

C297 I 752.1 Induction of Autophagy and Inhibition of Oncoprotein Aurora-A Activity in Curcumin-Enhanced Chemosensitivibity of Grade III Human Bladder Cancer T24 Cells to FDA-Approved Anticancer Drugs C-L. Su and Y-W. Fan. Natl. Taiwan Normal Univ.


C300 II 752.4 Butyrate and Deoxycholic Acid Play Common and Distinct Roles in HCT116 Human Colon Cell Proliferation H. Zeng, K. Claycombe and K. Reindl. USDA, Grand Forks and North Dakota State Univ.

C302 II 752.6 Synergistic Impact of δ-δ-Tocotrienol and Geranylgeraniol in Human DU145 Prostate Carcinoma Cells H. Yeganehjoo, R. DeBose-Boyd and H. Mo. Texas Woman's Univ.; HHMI, Univ. of Texas Southwestern Med. Ctr. and Georgia State Univ.


C305 I 752.9 Effects of Black Chokeberry (Aronia melanocarpa) Extracts on Adhesion, Invasion and Migration in SK-Hep1 Human Hepatoma Cancer Cells E-S. Hwang and N. Do Thi. Hankyong Natl. Univ., South Korea.

C306 II 752.10 Walnut Phenol Extracts Inhibit Stemness of Colon Cancer Stem Cells In Vitro Y-S. Kim, S-W. Choi, S.J. Min, J. Lee and Y. Kim. Ewha Womans Univ. and CHA Univ.


C311 I 752.15 Black Raspberry Constituents and Genistein Do Not Alter the Effectiveness of Taxane Chemotherapy in Human Prostate Cancer Cells J.N. Eskra, A. Dodge and M.C. Bosland. Univ. of Illinois at Chicago.

C312 II 752.16 Docosahexaenoic Acid and Doxorubicin Act Synergistically to Disrupt Cell Cycle and Increase Cell Death of MDA-MB-231 Breast Cancer Cells M. Newell, V. Mazurak and C.J. Field. Univ. of Alberta.

C313 I 752.17 Selenoprotein W Inhibits the c-Met Oncogene by Regulating Receptor Ubiquitination C.R. Wilcox, Z. Alkan and W.C. Hawkes. Univ. of California, Davis and USDA, Davis.

C314 II 752.18 Delta Tocotrienol Inhibits MMP-9 Dependent Invasion and Metastasis of Non-Small Cell Lung Cancer Cell by Suppressing Notch-1 Mediated NF-kB and uPA Pathways L.D. Rajasinghe, R.S.H. Pindiprolu, N. Razalli, Y. Wu and S.V. Gupta. Wayne State Univ.

C315 I 752.19 Thymoquinone from Nigella sativa Seeds Promotes the Antitumor Activity of Topotecan in Human Colorectal Cancer Cell Lines S. Rizk, R. Khalifeh, M.H. Hodroj and R. Fakhoury. Lebanese Amer. Univ. and Beirut Arab Univ.

C316 II 745.6 Effects of Polyphenols on the Endogenous Formation of Nitroso Compounds in Simulated Gastric Conditions V. Sági-Kiss, M. Pitzalis and G.G. Kuhnle. Univ. of Reading, U.K.


753. DIET AND CANCER: ANIMAL STUDIES

Poster

(Sponsored by: Diet and Cancer RIS)

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM—1:45 PM (I); 1:45 PM—2:45 PM (II)


C323 I 753.5 Inhibition of Colon Carcinogenesis by 5-Demethylnobiletin in Azoxymethane-Treated Rats M. Song, X. Wu, M. Wang and H. Xiao. Univ. of Massachusetts Amherst.


C327 I 753.9 Relationships of Prostaglandin E\(_2\) with Fatty Acid Concentrations and Gene Expression in Colon of Individuals at Increased Risk of Colon Cancer E.H. Sidahmed, A. Sen, J. Ren, K. Turgeon, M. Ruffin, D. Brenner and Z. Djuric. Univ. of Michigan.

C328 II 753.10 Promotion of Inflammation-Associated Colon Tumorigenesis by the Total Western Diet in the APC\(^{min}\)-Mouse D.P. Larson, K.J. Hintze, R.E. Ward, M. Lefevere, A. Hunter, S. Quarnberg and A.D. Benninghoff. Utah State Univ.

C329 I 753.11 Anti-carcinogenic Properties of Camel Milk Protein, β-Casein, against Azoxymethane-Induced Cancer in Rat Colon A. Al-Alawi and M. Waly. Sultan Qaboos Univ., Oman.


C334 II 753.16 Obesity-Induced Intestinal Tumorigenesis Is Associated with Inflammatory Cytokines and Activation of Pro-tumorigenic Signaling Pathways in the Colon A.C. Pfalzer, L. Iyer, L.D. Parnell, A. Tai, Z. Liu, J.B. Mason and J. Crott. USDA at Tufts Univ.; Tufts Univ. Sch. of Med.; Tufts Univ.; Univ. of Massachusetts Amherst and USDA, Boston.

### 754. EXPERIMENTAL ANIMAL NUTRITION: ANIMAL MODELS OF FETAL NUTRITION, PROGRAMMING AND NEONATAL DEVELOPMENT

**Poster**

*(Sponsored by: Experimental Animal Nutrition RIS)*

**Mon. 7:30 AM—Boston Convention & Exhibition Center, Exhibit Halls A & B**

**Presentation time:** 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)


C336 II 754.2 Choline and Betaine Supplementation Affects Biomarkers in Mice with Gestational Diabetes J. Nam and X. Jiang. Brooklyn Col.

C337 I 754.3 Impact of Prenatal Exposure to Humanized High Fat Diets on Murine Metabolic Phenotype E.H. Marchlewicz, Z. Djuric, B.N. Sanchez, K.E. Peterson and D.C. Dolinoy. Univ. of Michigan.

C338 II 754.4 Neonatal Pig Femur Integrity Responses to Dietary Vitamin D and P Depend on Maternal Dietary Vitamin D L.A. Amundson and T.D. Crenshaw. Univ. of Wisconsin-Madison.


C340 II 754.6 Dendritic Spine Density of Rat Hippocampal Neurons Is Increased following Consumption of Diet Containing a Prebiotic Blend and Bioactive Whey Protein Fractions R.V. Waworuntu, T. Hanania, C. Rex and B.M. Berg, Mead Johnson Nutr., Evansville, IN; PsychoGenics Inc., Tarrytown, NY and Afraxis Inc., La Jolla.


C343 I 754.9 Early Exposure to Phytoestrogens Protects Offspring from Hypercholesterolemia Induced by Maternal Cholesterol Feeding in Syrian Golden Hamsters J. Liu, A. Raslawsky, C. Movsesian, M.S. Patel and T.C. Rideout. SUNY at Buffalo.


C351 I 754.17 A Prebiotic Blend of Polydextrose and Galactooligosaccharides with Bioactive Whey Protein Fractions Ameliorates Stress-Evoked Disruptions in Sleep States R.S. Thompson, R. Roller, A. Mika, B.N. Greenwood, M. Chichlowski, B.M. Berg and M. Flesher. Univ. of Colorado Boulder; Mead Johnson, Evansville, IN and Univ. of Colorado.

C352 II 754.18 Effect of Maternal Iron Overload on Offspring’s Liver Injury in Rats A. Ma, J. Cui, Y. Jiang, Y. Sun, X. Han, J. Cai and D. Wu. Med. Col. of Qingdao Univ., China and USDA at Tufts Univ.

C353 I 754.19 Maternal Supplementation of Phytosterols to a High Cholesterol Diet during Pregnancy and Lactation Favorably Modulates Lipid and Lipoprotein Metabolism in Offspring C. Movsesian, A. Raslawsky, J. Liu, M.S. Patel and T.C. Rideout. Univ. at Buffalo, SUNY.


C359 I 754.25 Tissue Distribution of Oxidases and Transaminases mRNA in Broiler Chickens Fed with Methionine Isomers or Precursors S. Zhang, B. Saremı, E. Gilbert and E. Wong. Virginia Tech and Evonik Industries AG, Hanau, Germany.


755. EXPERIMENTAL ANIMAL NUTRITION: ANIMAL MODELS OF NUTRITION AND DISEASE

Poster
(Sponsored by: Experimental Animal Nutrition RIS)

MONDAY


C364 II 755.4 The Effect of Dietary Saturated and Unsaturated Fatty Acid on Gene Expression and Fatty Acid Composition of Various Tissues in Pre-ruminant Calves C-Y. Tsai, W.I. Loucks, K.C. Ramsey, C.M. Scholte, M.E. Doumit and P. Rezamand. Univ. of Idaho.

C365 I 755.5 Formulation of the Total Western Diet for Pigs and Phenotypic Differences after a 12-Week Feeding Trial K.J. Hintze, L. Cox, S. Kellen and S.C. Isom. Utah State Univ.

C366 II 755.6 Effects of Contaminated Fish Oil on Hepatic FAS and HMGCR Gene Expression and Liver Function Enzyme Activities J.C. Lumibao and M.Y. Hong. San Diego State Univ.


C373  I  755.13 Increased Circulating Estradiol in Mice Fed a High-Fat Diet Does Not Attenuate Ovariectomy-Induced Bone Structural Deterioration J.J. Cao. USDA, Grand Forks.


C375  I  755.15 Vitamin D3 Supplementation at 50x the Adequate Intake Attenuates Disease Pathophysiology in the Spinal Cord of Male, but Is Toxic in Female, G93A Mouse Model of Amyotrophic Lateral Sclerosis E. Moghimi, S. Thampinathan, J.A. Solomon, A. Gianforcaro and M.J. Hamadeh. York Univ., Canada.


C380  II  755.20 Hormonal Profile in Overweight Cats: Retrospective Study C. Amato, L. Jaillardon, V. Leray, P. Nguyen and B. Siliart. Oniris, Nantes.

C381  I  755.21 Effects of Soybean Embryo on Lipid Metabolism of Non-alcoholic Fatty Liver Disease in C57BL/6 Mice Fed a High Cholesterol and High Fat Diet J. Hong and H-S. Kim. Col. of Human Ecol., Sookmyung Women’s Univ., South Korea.

756. EXPERIMENTAL ANIMAL NUTRITION: ANIMAL MODELS FOR NUTRITION ACROSS PHYSIOLOGICAL STATES

Poster

(Sponsored by: Experimental Animal Nutrition RIS)

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B


C385  II  756.4 The Effect of Lactoferrin on Immunomodulatory in OVA-Induced Immunocompromised Mice Y-T. Lin, C-H. Chan and H-Y. Huang. Shih-Chien Univ., Taiwan.

C386  I  756.5 Anti-hyperglycemia Effect of Lactobacillus reuteri GMNL-89 through Modulating ofPPARs and Energy Metabolism Related Genes Expression in Insulin-Resistant Rats M-H. Fan, W-K. Huang, C-H. Chan and H-Y. Huang. Shih-Chien Univ.

C387  II  756.6 Daily Administration of Lactobacillus reuteri263 Suppresses Body Fat Synthesis and Alters the Body Composition on High Fat Diet-Induced Obese SD Rats S-P. Tsao, Y-T. Lin and H-Y. Huang. Shih-Chien Univ., Taiwan.


C390  I  756.9 Heat Stress and LPS Activate Multiple Signaling Pathways to Regulate Cytokine Expression in Macrophages K. Ajuwon and Z. Hua. Purdue Univ. and Sichuan Agr. Univ., China.

C391  II  756.10 GLP2 and EGF Stimulated EC Proliferation of TPN-Derived Enteroids Y. Feng, F. Demehri and D.H. Teitelbaum. Univ. of Michigan.
757. NUTRITION IMMUNOLOGY: NUTRITION AND INFECTION

Poster

(Sponsored by: Nutritional Immunology RIS)

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)


758. VITAMINS AND MINERALS: WATER AND FAT SOLUBLE VITAMINS AND CHRONIC DISEASE

Poster

(Sponsored by: Vitamins and Minerals RIS)

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)

C401 II 758.1 γ-Carboxyethyl Hydroxychroman Preserves Nitric Oxide Bioavailability by Attenuating Oxidative Stress and Inflammation in Endothelial Cells Treated with High Glucose Y. Li, L. Bharath, Y. Quan, E. Mah, Y. Guo, M. Hawkins, R.S. Bruno, P.V.A. Babu, T. Jaili and J.D. Symons. Univ. of Utah and The Ohio State Univ.


C404 I 758.4 α-Tocopherol Bioavailability Is Lower in Adults with Metabolic Syndrome Regardless of Dairy Fat Consumption E. Mah, T.N. Sapper, S.W. Leonard, M.G. Traber and R.S. Bruno. The Ohio State Univ. and Oregon State Univ.


C406 I 758.6 Maintenance of Vitamin D Status in Zucker Diabetic Fatty Rats by Dietary Resistant Starch Is Dependent on Colonic Fermentation G.Y. Koh, S.E. Leow, L. Reed, E. Wisecup and M.J. Rowling. Iowa State Univ.

C407 II 758.7 Vitamin D Deficiency in Early Life Leads to Food Allergy by Down-regulating Treg Cells in BALB/c Mice K. Yang, J. Wu, Y. Zhong and W. Cai. Shanghai Jiao Tong Univ. and The Ohio State Univ.


C409 II 758.9 Effect of High-Dose Vitamin D Supplementation on Bone Density in Youth with Osteogenesis Imperfecta: A Randomized Controlled Trial L. Plante, L-N. Veilleux, H. Weiler and F. Rauch. McGill Univ. and Shriners Hosp. for Children, Montreal.
759. VITAMINS AND MINERALS: SELENIUM

Poster

(Sponsored by: Vitamins and Minerals RIS)

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)


C411 II 758.11 Effect of Phylloquinone Supplementation on Inflammatory Markers in High-Fat Diet-Induced Obese Mice C. Sohn and M. Kim. Wonkwang Univ., South Korea.


C415 II 758.15 Whole Egg Consumption Completely Prevents Vitamin D Deficiency in Type 2 Diabetic Rats S.K. Jones and K.L. Schalinske. Iowa State Univ.


C422 I 759.7 Modulation of Intestinal Microbiota by Dietary Selenium and 15kDa Selenoprotein Expression in Inflammatory Colon Cancer J.A. Canter, S. Scheckells, C.V. Saylor, A. Patterson, B.A. Carlson, V.N. Gladyshnev, Y. Yu, L. Cao, M. May, C.D. Davis, D.L. Hatfield and P.A. Tsuji. Towson Univ; NCI, NIH; Brigham and Women's Hosp., Harvard Med. Sch.; NCI, NIH; Univ. of New England and ODS, NIH.

C423 II 759.8 Effect of Dietary Bioactive Compounds on Thioredoxin Reductase 1 and 15kDa Selenoprotein Expression in Colon Cancer Cells L.E. Rosso, S.E. Galinn, B.A. Carlson, R. Tobe, S. Naranjo-Suarez and P.A. Tsuji. Towson Univ.; NCI, NIH and Johns Hopkins Univ.

C424 I 759.9 The 15kDa Selenoprotein Expression May Be Regulated through the AhR Pathway S.E. Galinn, L.E. Rosso, B.A. Carlson, R. Tobe, S. Naranjo-Suarez and P.A. Tsuji. Towson Univ; NCI, NIH and Johns Hopkins Univ.


C428 II 759.13 Effect of Long-Term Dietary Selenium Deprivation and Aging on Selenoprotein Transcriptome in Short Telomere Mice L. Cao, R.T.Y. Wu and W-H. Cheng. Mississippi State Univ. and Univ. of Maryland College Park.


760. VITAMINS AND MINERALS: MICRONUTRIENT BIOAVAILABILITY AND ANTIOXIDANT FUNCTION

Poster

(Sponsored by: Vitamins and Minerals RIS)

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)

C431 II 760.1 Stability of Whole Blood Antioxidants during Overnight Storage at 4°C S.W. Leonard, G. Bobe and M.G. Traber. Oregon State Univ.

C432 I 760.2 The Higher Calcium Absorption Associated with a High Fat Diet Is Not Due to Intestinal Calcium Availability E. Bandali, M. Rogers and S. Shapses. Rutgers Univ.


761. VITAMINS AND MINERALS: ZINC

Poster

(Sponsored by: Vitamins and Minerals RIS)

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)


C440 I 761.4 Increased Oxidative Stress and Vascular Aging by Zinc Deficiency in Mice G. Salazar, Y. Zhao and R.G. Feresin. Florida State Univ.

C441 II 761.5 mir-548n Expression in HEPG2 and HEP2 Cells Is Affected by the Culture Medium Zinc Concentration A. Grider, R.D. Lewis, E.M. Laing, A.A. Bakre and R.A. Tripp. Univ. of Georgia and Univ. of Georgia Col. of Vet. Med.

C442 I 761.6 Zinc Overload Increases ROS Production and Induces Senescence by a Nox1-Dependent Mechanism in Vascular Smooth Muscle Cells Y. Zhao, R.G. Faresin and G. Salazar. Florida State Univ.

Pathology

762. IMAGING AND BIOINFORMATICS

Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 11:45 AM–1:45 PM


D370 762.2 Napsin A and Thyroid Transcription Factor-1 Immunohistochemistry in the Diagnosis of Canine Pulmonary Carcinomas J. Beck, M. Miller, C. Frank, D. DuSold and J. Ramos-Vara. Purdue Univ.; Multimedia Univ., Malaysia and Nationwide Children’s Hosp., Columbus.


763. THE INFLAMMATORY RESPONSE: RECRUITMENT AND ACTIVATION

Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 11:45 AM–1:45 PM


D376 763.3 Effects of the NOD2 Mutations E600A, T605P, and T605N on NF-kB Activation A.M. Domina, E. Stiles, R. Ewer, C. Bocian, S. Lee and M. Saab. Husson Univ. Sch. of Pharm., ME.


D380 763.7 Inhibition of Glutathione Production by L-Buthionine-(S,R)-Sulfoximine Induces Macrophage CD36 Expression X. Yang, Y. Chen, L. Sun, Y. Duan and J. Han. Nankai Univ., China.


764. CARDIAC PATHOBIOLOGY

Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 11:45 AM–1:45 PM


D386 764.5 Role of Receptor for Advanced Glycation End Products in the Regulation of Human Epicardial Fat (EAT) Mechanisms in the Mitral Valve following Prolonged Angiotensin II Infusion E. Vianello, M.G. Marazzi and E. Dozio. Univ. of Milan and IRCCS. Policlin. San Donato, Milan.

PATHOLOGY MONDAY

765. GENETIC DISEASES AND GENE EXPRESSION
Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 11:45 AM–1:45 PM


766. HOST MEETS ENVIRONMENT: INJURY (HAVOC) AND HOST RESPONSES ENSUE
Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 11:45 AM–1:45 PM


D392  766.2  Effects of Cryptococcus neoformans and Minocycline on NK Cell CD69 and CD38 Expression as Surrogates for Activation O.O. Lawal, C. Paige, A. Toney and W.H. Carr. Medgar Evers Col., CUNY.


D399  766.9  Mechanism of Na-H Exchanger-1 Expression in Experimental Colitis: Role of Carbonic Anhydrase I. Khan and A. Al-Shamali. Kuwait Univ.

D400  766.10  Loss of α(1,3)-Fucosyltransferases 4 and 7 Exacerbates DSS-Induced Colitis L.C. Mackey, J. Rose and J.W. Homeister. Univ. of North Carolina at Chapel Hill.

D401  766.11  Aquaporin 3 Promotes Intestinal Epithelial Proliferation and Inhibits Cytokine-Induced Apoptosis E.E. Morgan, M.A. Peplowski and W.K. MacNaughton. Univ. of Calgary, Canada.


D403  766.13  Withdrawn.


767. METABOLICOMICS AND DISEASE
Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 11:45 AM–1:45 PM

D407  767.1  Glucotoxicity Caused by Change in Hepatic Metabolic Pathways Leading to Type 2 Diabetes D. Kapuria, B. Herndon and A. Molteni. Univ. of Missouri-Kansas City.

D408  767.2  Maspin Expression of Pancreatic Inflammation in an Obese Strain of Mice L. Haldiman, A. Glazyrin, B. Herndon, D. Kapuria and A. Molteni. Univ. of Missouri-Kansas City Sch. of Med.


Pharmacology

768. NEUROPHARMACOLOGICAL EFFECTS OF DRUGS OF ABUSE

Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B
Presentation time: 12:30 PM–2:30 PM

D1 768.1 Nicotine, Methamphetamine-Induced Dopaminergic Deficits, and the Impact on α4β2 and α6β2 Nicotinic Receptors. P.L. Vieira-Brock, L.M. McFadden, J. McIntosh, G.R. Hanson and A.E. Fleckenstein. Univ. of Utah.


D3 768.3 The Function of Cholinergic Input to the Ventral Tegmental Area J. Santini, D. MacLaren and S. Clark. Univ. at Buffalo, SUNY.

D4 768.4 Dopamine Transporter Expression and Transport Capacity Is Regulated by Palmitoylation D.E. Rastedt, J.D. Foster and R.A. Vaughan. Univ. of North Dakota.

D5 768.5 Sigma-1 Receptor Attenuates Methamphetamine Stimulation of Dopamine Transporter Activity D. Sambo, M. Lin and H. Khoshbouei. Univ. of Florida.


D8 768.8 Role of Ventral Tegmental Area TORC2 Signaling in Stress-Induced Morphine Reward S. Kaska, M. Kechner and M.S. Mazei-Robison. Michigan State Univ.


D11 768.11 A High Fat Diet Reduces Dopamine Terminal Function and Increases Behavioral Sensitization to Amphetamine in C57BL/6 Mice S. Fordahl and S. Jones. Wake Forest Sch. of Med.


D14 768.14 Role of Hippocampal p21 in Reward-Induced Behaviors N.E. Scholpa, S. Hammond, J.J. Wagner and B.S. Cummings. Univ. of Georgia.


D16 768.16 Novel CNS-Permeant PKC Inhibitor and Tamoxifen Analog Reduces Amphetamine Neurochemical and Behavioral Effects C. Carpenter, S. Mikelman and M. Gnegy. Univ. of Michigan.


D18 768.18 Influence of Dopamine D2 Receptor Availability during Abstinence from Long-Term Cocaine Exposure in Female Cynomolgus Monkeys M. Nader, S. Nader, M. Rowe and A. Adler. Wake Forest Sch. of Med.
770. PAIN MECHANISMS: INFLAMMATION AND CANNABINOIDS

Poster

**Presentation time:** 12:30 PM–2:30 PM


D27 770.1 Involvement of CaMKIIα in Multiple Sclerosis-Associated Pain X. H. Fu, F. Huang and Z. J. Wang. Univ. of Illinois at Chicago.


D29 770.3 Group A Streptococcus Induces Caspase-Independent IL-1 Signaling C. N. LaRock, J. Todd, J. Olson, H. Hoffman and V. Nizet. UCSD.


D31 770.5 Protective Effects of Resveratrol on Social Stress-Induced Neuroinflammation and Depressive-Like Behavior J. E. Finnell, C. M. Lombard, N. Singh, M. Nagarkatti, P. Nagarkatti, C. S. Wood and S. K. Wood. Univ. of South Carolina Sch. of Med.


D33 770.7 N-(Pyridine-3-ylmethyl)oleamide as a New Inhibitor of Fatty Acid Amide Hydrolase A. Alafnan, H. Wu, M. Bohlke, T. J. Maher and A. J. Pino-Figueroa. MCPHS Univ., Boston.


D40 770.14 Effects of Nicotinic Acetylcholine Receptor Positive Allosteric Modulator on Microglia Activation following Lipopolysaccharide-Induced Neuropathic Pain M. Abbas and S. Rahman. Col. of Pharm., South Dakota State Univ.

771. NEURODEGENERATION AND NEUROTOXICOLOGY

Poster

**Presentation time:** 12:30 PM–2:30 PM

D41 771.1 Traumatic Brain Injury Leads to Later Development of Parkinson’s Disease in Mice D. Impellizzeri, G. Bruschetta, M. Cordaro, R. Crupi, S. Cuzzocrea and E. Esposito. Univ. of Messina and Saint Louis Univ.


D44 771.4 Nimodipine: A Novel Protective Calcium Channel Blocker against 3-Nitropropionic Acid-Induced Huntington's Disease A. S. Khail, S. Saleh and N. N. Nassar. Fac. of Pharm., Cairo Univ.


D46 771.6 Protective Effects of Phytochemicals, Quercetin and Ferrulic Acid, on Transthyretin Fibril-Induced Amyloidosis in Neuronal Cells R. S. Narla and K. E. Benzeroual. Long Island Univ.
D47 771.7 Behavioural and Cognitive Assessment of Aldehyde Dehydrogenase 2 Null Mice: A New, Oxidative Stress-Based Model of Age-Related Alzheimer’s Disease A. Elharram, Y. D’Souza and B. Bennett. Queen’s Univ., Canada.


D52 771.12 Chronic L-DOPA Induced 5-HT Neuron Loss and Behavioral Impairments in the Rat B.J. Stanisley and B.K. Yamamoto. Univ. of Toledo Col. of Med.


D56 771.16 Phosphorylation State Modulates the Interaction between Neurofilament Medium and Spinophilin A.C. Hiday, M.C. Edler, Jr., T.J. Rentz and A.J. Baucom II. Indiana Univ.-Purdue Univ. Indianapolis and Vanderbilt Univ. Sch. of Med.


772. GPCR PHARMACOLOGY

Poster

Mon. 7:30 am — Boston Convention & Exhibition Center, Exhibit Halls A & B

Presentation time: 12:30 pm — 2:30 pm

D60 772.1 Bias in the 4th Dimension: The Influence of Ligand Binding Kinetics upon the Quantification of Biased Agonism at G Protein-Coupled Receptors J.D. Lane. Monash Inst. of Pharmaceut. Sci., Australia.


D64 772.5 Allosteric Modulation of the Mu-Opioid Receptor: Probe Dependence and Role of Na+ Ions K.E. Livingston and J.R. Traylor. Univ. of Michigan.


D66 772.7 Biased Signalling Might Be the Answer to the Inconsistent Pharmacology of GPR55 Y. Zeng, R.F. Irvine and C.R. Hiley. Univ. of Cambridge.

D67 772.8 α1B- and α2-Adrenoceptors Mediate Contractions of Mouse and Rat Spleen: Pharmacological and Gene Knockout Data J.R. Docherty and C. Daly. Royal Col. of Surgeons in Ireland and Sch. of Life Sci., Glasgow Univ.


D69 772.10 Comparison of Parathyroid Hormone (PTH) (1-34) and PTH (7-34) Effects on Cell Signaling and Proliferation in Saos-2 Osteoblast-Like Cells G. Mamidanna and J.A. Cole. Univ. of Memphis.


D73 772.14 Free Fatty Acid Receptor 4 Mediates the Inhibitory Effects of Omega-3 Fatty Acids on Growth Factor-Mediated Proliferation and Migration in Human Prostate Cancer Cells M.M. Hopkins and K.E. Meier. Washington State Univ.


D75 772.16 The G Protein-Coupled Estrogen Receptor GPR30 Controls Immune Function by Regulating Neutrophil Extracellular Trap Formation R. Flores, S. Döhmann, V. Nizet and R. Corriden. UCSD and San Diego State Univ.


773. NATURAL PRODUCTS I

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:30 PM–2:30 PM


D82 773.6 The Methanol Extract of Garcinia kola Seed Blunts Lipopolysaccharide- and Angiotensin II-Induced Cell Proliferation as well as Nitric Oxide Production in In Vitro Vascular Smooth Muscle Cells Assay A.A. Adedapo, T.O. Omobowale, A.A. Oyagbemi, M.O. Yakubu and A.O. Oyekan. Texas Southern Univ.


D93  **774.2** Nitrogen Mustard-Induced Lung Fibrosis Is Associated with Altered Lipid Metabolism and Foam Cell Formation. A. Venosa, A. Gow, J.D. Laskin and D.L. Laskin. Rutgers Univ., Piscataway.


**775. PULMONARY DISEASE AND TOXICOLOGY**

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

*Presentation time: 12:30 PM–2:30 PM*

D96  **775.1** Examination of the Effects of Inhalation Exposure of Rats to Work Site Fracking Sand Dust on Ion Transport in Tracheal Epithelium. In Vitro. J.S. Fedan, W. McKinney, A.M. Cumpston, M.C. Jackson and J.A. Thompson. NIOSH, Morgantown, WV.


D98  **775.3** Bone Marrow and Spleen as Sources of Inflammatory Macrophages Responding to Ozone-Induced Lung Injury. M. Francis, M. Mandal, J. Cervelli, H. Choi, J.D. Laskin and D.L. Laskin. Rutgers Univ., Piscataway.


D100  **775.5** The Effect of Stimulatory Compounds on Baseline and Impaired Mucociliary Clearance in the Guinea Pig. A. Young, E. Sadler, P. Nath and V. Russell. Argenta Discovery, Oxford, U.K.


D102  **775.7** Initial Characterization of a Mouse Model of Severe Asthma. A. Young, E. Sadler, P. Nath and V. Russell. Argenta Discovery, Oxford.

**776. PESTICIDES**

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

*Presentation time: 12:30 PM–2:30 PM*

D103  **776.1** HPLC Uv-Vis Analysis of Multiple Pesticides Extracted from Biological Tissues: Effects of Atrazine on Detection. J.A. Tran, M. Naidu and M.A. Yakubu. Texas Southern Univ.


**777. MITOCHONDRIAL PHYSIOLOGY/PHARMACOLOGY/TOXICOLOGY**

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

*Presentation time: 12:30 PM–2:30 PM*


D109  **777.3** Caveolin-3/AdipoR1 Dependent Mitochondrial STAT3 Activation in Ischemic Postconditioning Cardioprotection. H. Li, M.G. Irwin and Z. Xia. The Univ. of Hong Kong.
778. THE BIOPHYSICS AND REGULATION OF CYTOCHROMES P450

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:30 PM–2:30 PM


D120 778.3 CYP1A2 and CYP2B4 Form Complexes Associated with Altered Catalytic Activity J.P. Connick, J.R. Reed and W.L. Backes. LSU Hlth. Sci. Ctr., New Orleans.


D125 778.8 GW4064, an Agonist of Farnesoid X Receptor, Represses CYP3A4 Expression in Human Hepatocytes S. Zhang, X. Pan and H. Jeong. Col. of Pharm. Univ. of Illinois at Chicago.

D126 778.9 Inducers of Small Heterodimer Partner Expression Lead to Decreased CYP2D6 Expression and Activity X. Pan and H. Jeong. Univ. of Illinois at Chicago.

D136 779.9 All-trans-Retinoic Acid Enhances Mitochondrial Biogenesis in Models of Human Liver S. Tripathy, R.S. Foti and N. Isoherranen. Univ. of Washington and Amgen Inc., Seattle.


D138 779.11 Study of Biodistribution and Biocompatibility of CdS-1D Nanoparticles In Vivo I. Gutiérrez-Sancha, P. Rodríguez-Fragoso, J. Reyes-Esparza and L. Rodríguez-Fragoso. Autonomous Univ. of State of Morelos, Cuernavaca and CINVESTAV-IPN, Mexico City.


780. CEREBROVASCULAR SIGNALING
Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:30 PM–2:30 PM

D140 780.1 Effects of Ang II on Angiotensin Converting Enzyme mRNA Levels in Cultured Rat Astrocytes Y. Vudhya Gowrisankar and M.A. Clark. Nova Southeastern Univ.

D141 780.2 Differential Interleukin-6 Protein and mRNA Expression Levels in Angiotensin II-Treated Cultured Rat Astrocytes Y. Vudhya Gowrisankar and M.A. Clark. Nova Southeastern Univ., FL.

D142 780.3 Sex-Differences in Mitochondrial Respiration in Rat Cerebral Arteries I. Rutkai, S. Dutta, P. Katakam and D. Busija. Tulane Univ.


D146 780.7 Rho Kinase Regulates Myogenic Depolarization of Cerebral Parenchymal Arterioles Y. Li and J.E. Brayden. Univ. of Vermont.

781. CARDIAC HYPERTROPHY

Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:30 PM–2:30 PM


D148 781.2 Chronic Blockade of Class I PI3-Kinase Attenuates Ang II-Induced Cardiac Hypertrophy and Autophagic Alteration L. Guo, L. Sun, S. O'Rourke and C. Sun. Jilin Univ., China and North Dakota State Univ.


D150 781.4 Human Cardiac Hypertrophy Induced by Thrombin/COX-2 Is Mediated through a c-Src/Pyk2/EGFR/CREB-Dependent Pathway T-Y. Chien and C-M. Yang. Chang Gung Univ., Taiwan.


782. VASCULAR PHARMACOLOGY – SMOOTH MUSCLE

Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:30 PM–2:30 PM


D156 782.4 Effect of Angiostatin III on ERK1/2 and p38 Mitogen Activated Protein Kinases in Wistar Rat VSMCs A.Z. Alanazi and M.A. Clark. Nova Southeastern Univ.
D157 782.5 Caveolin-1 as a Potential Regulator of Transforming Growth Factor-β and Angiotensin II Type 1 Receptor Signaling in Primary Human Aortic Smooth Muscle Cells J. Harmon, L. Leung, M. Esfandiarei and J. Vallejo. Midwestern Univ., AZ.

D158 782.6 Early Transient Sarcoplasmic Reticulum Calcium Decrease Prior to Initiation of Unfolded Protein Response in Vascular Smooth Muscle Cells G. Ziomek, C. van Breemen and M. Esfandiarei. Univ. of British Columbia and Midwestern Univ., AZ.

D159 782.7 Comparison of High Fructose and Glucose Consumption on the Impairment of Mesenteric Arterial Function in Female Rats S. Shaligram, G. Sangüesa, F. Akther, M. Alegret, J.C. Laguna and R. Rahimian. Thomas J. Long Sch. of Pharm. and Hlth. Sci., Univ. of the Pacific and Univ. of Barcelona Inst. of Biomed.

D160 782.8 Consumption of High Fructose and Glucose Impairs Aortic Function in Female Rats F. Akther, G. Sangüesa, S. Shaligram, M. Alegret, J.C. Laguna and R. Rahimian. Thomas J. Long Sch. of Pharm. and Hlth. Sci., Univ. of the Pacific and Sch. of Pharm., Univ. of Barcelona.

D161 782.9 Possible Role of MCPIP1 in Insulin-Enhanced Vascular Injury-Induced Restenosis C. Naik and Y. Chang. A.T. Still Univ. of Hlth. Sci., MO.


D169 783.6 Effects of Resveratrol on Contractions of the Rat Tail Artery J.D. Peuler, S.M. Stom and L.E. Phelps. Midwestern Univ., IL.


D174 783.11 Contribution of P62 to the Phenotype Transition of Coronary Arterial Myocytes from Mice Lacking CD38 Gene J-X. Bao, G-B. Li, X. Li, A.L. Pitzer, Y. Zhang and P-L. Li. Med. Col. of Virginia at VCU.

**784. KIDNEY PHARMACOLOGY**

**Poster**

**Presentation time**: 12:30 PM–2:30 PM


D181 784.7 Nimesulide Toxicity of Kidneys of Prepubertal Rats P.U. Agbasi, E. Obi and N. Abasi. Fed., Univ. of Technol; Nnamdi Azikiwe Univ. and Abia State Univ., Nigeria.

785. CANCER THERAPEUTICS I: OVERCOMING TREATMENT RESISTANCE AND TOXICITY

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:30 PM–2:30 PM

D182 785.1 Y15 Enhances the Cytotoxic Profile of Cisplatin, Paclitaxel and Vitamin E in Platinum-Resistant Ovarian Cancer Cells M.P. Reboe, A.S. Levy, S. Dhandyuthapani and A. Rathanavelu. Univ. of the West Indies and Nova South Eastern Univ.


D184 785.3 Transport of 4-Boronophenylalanine, a BNCT Delivery Agent, by L-Type Amino Acid Transporters 1 and 2 P. Jutabha, M. Ouchi, N. Otani and N. Anzai. Dokkyo Med. Univ. Sch. of Pharm., Kaohsiung Med. Univ., Taiwan.


D188 785.7 Reversal of Chemoresistance in Ovarian Cancer by Co-delivery of MDR Inhibitors and Paclitaxel Using a Targeted Liposomal Platform S.K. Sriraman, Y. Zhang, E. Lengyel and V. Torchilin. Northeastern Univ. and Univ. of Chicago.

D189 785.8 Overcoming Chemoresistance in Pancreatic Cancer: Targeting the Apoptotic Protein Machinery Using Raloxifene P. Chaudhury, J. Ho, E. Burunova, T. Kardasheva and A. Malhotra. Col. of Arts and Sci., Pacific Univ. and Sch. of Pharm., Col. of Hlth. Professions, Pacific Univ.

D190 785.9 Effect of Growth Hormone on Testicular Dysfunction Induced by Methotrexate in Rats H. Serati-Nouri and Y. Azarmi. Tabriz Univ. of Med. Sci. and Fac. of Pharm., Univ. of Med. Sci., Tabriz, Iran.

D191 785.10 Withdrawn.


D196 785.15 Betulinic Acid, a Pentacyclic Triterpene, Inhibits Prosurvival Endoplasmic Reticulum Chaperone GRP78/BIP Expression and Induces Mitochondrial-Dependent Apoptosis in Gastric Cancer Cells M-W. Lin, C-Y. Hsieh, F-R. Chang, D-C. Wu, C-L. Chen and Y-B. Huang. Sch. of Pharm., Kaohsiung Med. Univ.

---

**Poster Presenters: Upload Your Poster**

Where: E-Poster Counter, Lobby D

Deadline: Wed., April 1, 3:00 PM

Uploaded posters will be available online to all registered attendees following the meeting at [www.experimentalbiology.org](http://www.experimentalbiology.org)
**Physiology**

### 786. MICROVASCULAR DEVELOPMENT AND AGING

**Poster**

*(Sponsored by: The Microcirculatory Society)*

**MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B**

**Presentation time:** 12:45 PM–3:00 PM

**B1 786.1** Advanced Age Increases the Amplitude of ATP-Sensitive K⁺ Channel Currents in Murine Resistance Artery Smooth Muscle Cells S. Hayoz, B. Mullan, C. Washington, S.S. Segal and W.F. Jackson. Michigan State Univ. and Univ. of Missouri-Columbia.


**B3 786.3** Deficiency of the T-Type Calcium Channel Ca, 3.1 Attenuates Endothelial Dysfunction in Aging Mice P.B.L. Hansen, K. Andersen, P.M. Vanhoutte and A.D. Thuesen. Univ. of Southern Denmark and Li Ka Shing Fac. of Med., Univ. of Hong Kong.

**B4 786.4** Age-Related Phenotype of Diabetic and Obese Mouse Models J.E. Vigilance, B. Song and M.D. Frame. Stony Brook Univ. and Univ. of the West Indies, Barbados.

**B5 786.5** Endothelial Dysfunction with Nano-silica Oxide Exposure Differs in Diabetic versus Old Mice B. Song, J.E. Vigilance and M.D. Frame. Stony Brook Univ. and Univ. of The West Indies, Barbados.

**B6 786.6** Age-Related Changes in Circulating MicroRNA Profile and Brain Endothelial Microvascular Cell Response to Oxidative Insult M. Shaul, B. Shukitt-Hale and I. Rosenberg. USDA at Tufts Univ.

**B7 786.7** Comparison of Network Resistances in Aged versus Adult Microvascular Networks D.C. Sloas, S.A. Stewart, R.S. Sweat and W.L. Murfee. Tulane Univ.

### 787. MICROVASCULAR FLOW REGULATION/OXYGEN DELIVERY

**Poster**

*(Sponsored by: The Microcirculatory Society)*

**MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B**

**Presentation time:** 12:45 PM–3:00 PM

**B8 787.1** Effects of Light Sources and Intensity on Blood Physiological Variables of Broilers Grown to Heavy Weights H.A. Olanrewaju, J.L. Purswell, S.D. Collier and S.L. Branton. USDA, Starkville, MS.

**B9 787.2** The Effect of Gap Junction Blockade on Renal Autoregulation and Phase Synchronization of Autoregulation Dynamics N. Mitrou, B. Braam and W.A. Cupples. Simon Fraser Univ., Canada and Univ. of Alberta.


**B11 787.4** Effects of Breathing O₂ at Different Concentrations on Reactive Oxygen Species and Endothelium-Dependent Dilatation J.M. Marshall, R.T. Junefo, F. D’Souza and C.J. Ray. Univ. of Birmingham, U.K.


**B14 787.7** Microscopic Study of PO₂ and VO₂ Kinetics in Contracting Rat Spinotrapezoid Muscle A.S. Golub, W.H. Nugent, B.K. Song and R.N. Pittman. Virginia Commonwealth Univ.

**B15 787.8** Level of Sympathetically Mediated Arteriolar Control Is Inversely Dependent on Arteriolar Segment Length in Rat Gluteus Maximus Microvascular Networks M. Al Tarhuni, B.K. Al-Khazraj, N. Omorouwa and D.N. Jackson. Univ. of Western Ontario Schulich Sch. of Med. & Dent.


### 788. MICROVASCULAR MECHANICS/HEMODYNAMICS

**Poster**

*(Sponsored by: The Microcirculatory Society)*

**MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B**

**Presentation time:** 12:45 PM–3:00 PM

**B19 788.1** Thermally Induced Erythrocyte Aggregation in Mammals G. Gunter, H.S. Seidner and M.D. Frame. Stony Brook Univ.

**B20 788.2** Flux Flow Split in Microchannels with Varying Bifurcation Angles at Low Re S. Darvishi, A.A. Kadam and M.D. Frame. Stony Brook Univ.
789. MICROVASCULAR PATHOLOGY AND TRANSLATIONAL BIOLOGY

Presentation time: 12:45 PM–3:00 PM


B28 789.8 Quantification of Breast Cancer Cell Transmigration across Brain and Lung Microvascular Endothelium B.M. Fu and J. Fan. City Col. of CUNY.


B35 789.15 In Vivo Inhibition of NFAT Signaling Restores Microvascular Endothelial Function in Diabetic Mice E. Garcia Vaz, A. McNeilly, J. Gallagher, R. McCMricon, M.F. Gomez and F. Khan. Lund Univ. and Ninewells Hosp., Univ. of Dundee.

790. PERICYTES AND STEM CELLS

Presentation time: 12:45 PM–3:00 PM


791. PERMEABILITY/FLUID AND SOLUTE EXCHANGE/GLYCOCALYX

Presentation time: 12:45 PM–3:00 PM

B38 791.1 A Novel Isolated Glomerular Albumin Permeability Assay Based on Quantitative Fluorescence Microscopy S. Desideri, A. Salmon, S. Satchell and B. Foster. Sch. of Physiol. and Pharmacol., Univ. of Bristol.

B39 791.2 The Development and Functional Validation of Engineered Microvessels Using Microfluidic Devices S. Xu, X. Li, Y. Liu and P. He. Penn State Col. of Med. and West Virginia Univ.

B40 791.3 Sphingosine-1-Phosphate-Induced Activation of RhoA and Enhancement of Endothelial Barrier Integrity X. Zhang, S.P. Adderley and J.W. Breslin. Univ. of South Florida.

B41 791.4 Histamine-Induced Endothelial Barrier Dysfunction Requires p38 MAPK-Mediated Actin Cytoskeleton Reorganization S. Adderley and J. Breslin. Univ. of South Florida.
792. TISSUE-MICROVESSEL INTERACTIONS/ EXTRACELLULAR MATRIX

Poster

(Sponsored by: The Microcirculatory Society)

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B47 792.1 Effect of Electrospin Scaffold Fiber Alignment on Platelet Functions J. Han, I. Soaita, J. O’Hara, W. Yin and D.A. Rubenstein. Stony Brook Univ.


793. VASOMOTOR CONTROL

Poster

(Sponsored by: The Microcirculatory Society)

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B51 793.1 Integrated Capillary Responses to Multiple Vasodilators: Implications for Redundancy in Active Hyperaemia I.R. Lamb and C.L. Murrant. Univ. of Guelph, Canada.

795. KALEY LECTURE POSTER SESSION

Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B70 795.7 Does the Side Matter? Mitochondrial Respiration in Rat Cerebral Arteries following Experimental Stroke I. Rutkai, S. Dutta, K. Walter, P. Katakam and D. Busija. Tulane Univ.


B73 795.10 Loss of Hydrogen Sulfide-Stimulated Ca2+ Spark Activity in Arteries from Rats with Intermittent Hypoxia-Induced Hypertension N.L. Kanagy, J.M. Osmond and V.S. Naik. Univ. of New Mexico.

796. ANGIOGENESIS AND VASCULAR GROWTH II

Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B74 796.1 Patterning of renal medullary vasa recta bundles takes place in a narrow developmental window in rats and humans and is dependent on Angiotensin II AT1 receptors A.R. Tinning, B.L. Jensen, I.G. Johnsen, D. Chen, T.M. Coffman and K. Madsen. Univ. of Southern Denmark; Odense Univ. Hosp. and Duke Univ. and Durham VA Med. Ctrs.


B76 796.3 LMO2 Regulates Angiogenesis through TGFβ1 and HGF S. Meng, W.T. Wong and J.P. Cooke. Houston Methodist Res. Inst.

B77 796.4 Cleaved Flt1 Ectodomain Antagonizes VEGF-A Signaling while Uncleaved Flt1 Facilitates KDR Signaling N.S. Raikwar, K.Z. Liu and C.P. Thomas. Univ. of Iowa Carver Col. of Med. and VA Med. Ctr.


B80 796.7 Nox4 and HO-1 Mediate Effects of Fluid Shear Stress on PLGF in an In Vitro Model of the Vessel Wall N.A. Rashdan and P.G. Lloyd. Oklahoma State Univ.

B81 796.8 MMP-2 and MT1-MMP Silencing Induces the Differentiation of Porcine Adipose-Derived Mesenchymal Stem Cells to Endothelial Cells S.G. Almaiki, Y. Llamas and D.K. Agrawal. Creighton Univ.

797. ENDOTHELIAL CELL BIOLOGY II

Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B83 797.2 Role of Albumin-Induced RalA Activation and PLD2-Mediated Phosphatidic Acid Production in Caveolae-Mediated Endocytosis and Trafficking in Endothelial Cells Y. Jiang, M.S. Sverdlov, P. Toth, Y. Liu, V. Natarajan and R.D. Minshall. Univ. of Illinois at Chicago and Univ. of Electronic Sci. and Technol. of China.
B84 797.3 Oxidant-Induced Endothelial Dysfunction
Is a failure of the Mitochondria to Process Cytosolic ROS
E. Shafique, A. Torina, Y. Liu, J. Feng, L. Benjamin, E.

B85 797.4 Enhanced NLPR3 Inflammamasome Activation
by Impairment of Impaired Membrane Resealing in Endothelial
Cells Y. Chen, M. Yuan, M. Xia and P-L. Li. Virginia
Commonwealth Univ.

B86 797.5 Focal Adhesion Kinase Leads Paxonlin in the Assembly of Naive Focal Adhesions in Lamellipodial
Protrusions of Migrating Endothelial Cells Y-L. Hu, S. Lu, K.W.
Szeto, J. Sun, Y. Wang, J.C. Lasher and S. Chien. UCSD and Univ. of Illinois at Urbana-Champaign.

B87 797.6 Generation and Utilization of Human-Induced Pluripotent Stem Cells from Primary Endothelial Cells for Studying Endothelial Gene Regulation M. Nakhaei-Nejad,
A.G. Murray and N. Jahroudi. Univ. of Alberta.

B88 797.7 Autocrine and Paracrine Effects of VEGF-A on
PLGF in an In Vitro Model of the Vessel Wall N.A. Rashdan and P.G. Lloyd. Oklahoma State Univ.

B89 797.8 Activation of Endothelial NLPR3 Inflammamasones Associated with Acid Sphinomyelinsase-Dependent Formation of Membrane Ract Redox Signaling Platforms M. Xia, K.M. Boini, Y. Chen, Y. Zhang and P-L. Li.
Virginia Commonwealth Univ.

B90 797.9 The Role of Myosin Phosphatase in Pulmonary Vascular Endothelial Barrier Preservation In Vivo A. Kasa, B.
Gorshkov, S. Kumar, C. Dimitropoulou, J.D. Catravas, S.M. Black and A.D. Verin. Georgia Regents Univ.

798. MYOCARDIAL ISCHEMIA/METABOLISM I

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER,
EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B91 798.1 Macrophage-Secreted Ceramides are Necessary for Myocardial Mitochondrial Disruption with LPS Treatments R. Saito, M. Hansen and B. Bikman. Brigham Young Univ.

B92 798.2 Effects of T3 (Tri-iodothyronine) on Myocardial Remodeling and Functional Recovery after Ischemia/Reperfusion S. Seitter, C. Pol, V. Rajagopalan, Y. Zhang, Y.
Chen and A.M. Gerdes. NYIT Col. of Osteo. Med.

B93 798.3 The Novel Contribution of the ER/SR Ca2+
Sensor STIM1 to Cardiac Function and Metabolism H.E.
Collins, B.M. Pat, S.H. Litovsky, M.E. Young and J.C.
Chatham. Univ. of Alabama at Birmingham.

B94 798.4 The Effects of NAD on Glucose Deprivation
Induced Activation of Protein O-GlcnAcylation, ER Stress and Autophagy Mediated by CD38 and cADPR L. Kou, R.B.
Marchase and J.C. Chatham. Univ. of Alabama at Birmingham.

B95 798.5 Safe Therapeutic Effect on Post-infarct Cardiac Remodeling and Pathophysiology following Low-Dose Oral Triiodo-L-Thyronine (T3) Treatment V. Rajagopalan, Y. Zhang,
A. Pingitore, Y. Chen, C.J. Pol, Y. Wang, D. Saunders, K.
Balasubramanian, R. Towner, K. Ojamaa and A.M. Gerdes.

B96 798.6 The Association of Depressed Angiogenic Factors with Reduced Capillary Density in Rhesus Monkey Model of Myocardial Ischemic Infarction W. Zhang, X. Zhao, Y.
Xiao, P. Han and J.Y. Kang. Sichuan Univ. West China Hosp. and Univ. of Louisville Sch. of Med.

B97 798.7 Spatial Implications of a Steep Relationship between Intracellular Na+ and Spontaneous Calcium Wave Frequency K.L. Ford, P. Swietach and R.D. Vaughan-Jones.
Univ. of Oxford.

B98 798.8 Ubiquitin Proteasome System Inhibition Ameliorates Cardiac Dysfunction following Ischemia-Reperfusion under Hyperglycemic Conditions R.F. Mapanga,

B99 798.9 The Effect of Inhibition of Glycolysis on Susceptibility to Ischemia-Induced Ventricular Fibrillation in the Isolated Rat Heart H. Clements-Jewery and G. Endler. West Virginia Sch. of Osteo. Med.

799. CARDIAC FUNCTION AND DYNAMICS I

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER,
EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B100 799.1 Assessment of Human Physiological Oscillations with Interferometry C. Haselby, J.L. Smith, R.
Murphy, K.P. Hinkeing and K.K. Henderson. Midwestern Univ., IL.

B101 799.2 Transgenic rat model overexpressing endothelial β3-adrenoceptor. a new model for heart failure with preserved ejection fraction V. Prat, D. Roul, M. Ferron,
N. Pirio, D. Guijarro, A. Grabherr, V. Aillerie, A. Erraud,
B. Lauzier, B. Rocco and C. Gauthier. INSERM UMR 1087/ CNRS UMR 6291 and Nantes-Lannenc Hosp.

B102 799.3 Acute Hemodynamic Effects of Intravenous Triiodothyronine in Normal Swine and Swine with Ischemic Cardiomyopathy B.R. Weil, G. Suzuki, R.F. Young,

B103 799.4 Residual Strain in the Left Ventricular Ex Vivo C57BL/6 Myocardium S. Angeli, M. Michaelides and C.
Constantinides. Chi Biomedl Ltd., Nicosia, Cyprus and Univ. of Cyprus.

B104 799.5 Left Ventricular Diastolic Elastance Is Higher in Women Compared to Men, and Elevated with Beta-Blockade P.L. Kerkhof, J.K. Li, J.Y. Kresh and G.R. Heyndrickx.
Ameliorates Cardiac Dysfunction following Ischemia- Reperfusion under Hyperglycemic Conditions B. Lauzier, B. Rozec and C. Gauthier. INSERM UMR 1087/ CNRS UMR 6291 and Nantes-Lannenc Hosp.

B105 799.6 Improvement in Fractional Shortening in Aortic Regurgitation Rats: Cardiac Muscle Network A.C.M. Omoto,
G.J. Fernandez, L.N. Moraes, M.G. Roscani, R.F. Carvalho
and J.I.F. De Gobbi. São Paulo State Univ. and Fed. Univ. of São Carlos, Brazil.

B106 799.7 Rho Kinase Inhibition Improves Cardiac Cross-Bridge Dynamics in Early Diabetic Cardiomyopathy M.T.
Waddington, A.J. Edgley, A. Astolfo, T. Inagaki, Y. Fujii,
Univ. of Melbourne; Paul Scherrer Inst., Swiss Light Source;
Natl. Cerebral and Cardiovasc Res. Inst., Osaka; JASRI,
SPRING-8, Hyogo and Monash Univ., Australia.


B110 799.11 Altered Structure and Function in Aging Synemin-Null Murine Heart K.P. Garcia-Pelagio, L. Chen, L. Lund, M. Bond and R.J. Bloch. Univ. of Maryland Baltimore; Merrick Sch. of Business, Univ. of Baltimore and Col. of Sci. and Hlth. Professions, Cleveland State Univ.

B111 799.12 Heart Rate Variability as a Measure of Autonomic Regulation of Cardiac Activity during Mental Stress E.V. Saperova and D.A. Dimitriev. Chuvash State Pedagogical Univ., Russian Fed.

800. CARDIOVASCULAR CONSEQUENCES OF TRAUMA

Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B
Presentation time: 12:45 PM–3:00 PM

B112 800.1 Protective Effects of the Somatostatin Analogue (Octetriotide) versus Ischemic Preconditioning on Cardiac Dysfunction Induced by Ischemia Reperfusion Injury in Hypothyroid Rats M.H. El saidy. Ain Shams Univ., Egypt.

B113 800.2 Coenzyme Q10 but Not Resveratrol Protects against the Sequelae of Myocardial Infarction: Profoundly Reduces Infarct Area, Inflammation, and Oxidative Stress; Normalizes Hemodynamics; and Recommences Homeostatic Apoptosis F. AL-Hashem, S. Eleawa and M. Alkhateeb. King Khalid Univ. Col. of Med., Saudi Arabia and Col. of Hlth. Sci., Kuwait.

B114 800.3 Inhibitory Effect of Meclofenamate Sodium on Proteasome Activity in the Cardiac Cells and Reversal of Its Effect by Antioxidants R. Ghosh, S.M. Hwang and A.V. Gomes. Univ. of California, Davis.


B116 800.5 Mast Cells Distinctly Regulate Inflammatory Response in Wild-Type and H1R Null Mice D.D. Smith, V.V. Raveendran and K.N. Dileepan. Univ. of Kansas Med. Ctr.


801. CELLULAR MEMBRANE REPAIR IN CARDIOVASCULAR PHYSIOLOGY AND PATHOPHYSIOLOGY

Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B126 801.4 Neutrophil Polarization following Myocardial Infarction in Mice Y. Ma, A. DeCoux, A. Yabluchanskiy, R. Clark, Y-F. Jin and M.L. Lindsey. Univ. of Mississippi Med. Ctr. and Univ. of Texas at San Antonio.


802. VASCULAR ENDOTHELIAL CELL INSULIN RESISTANCE: A NEW TARGET FOR REDUCING VASCULAR RISK IN DIABETES?

Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B131 802.2 PTP1B Deletion Enhances Endothelial Cyclooxygenase 2 Expression and Protects Mice from Type 1 Diabetes-Induced Endothelial Dysfunction J.B. Norman, D.J. Herren, R. Anderson, A-C. Huby and E.J. Belin de Chantemele. Georgia Regents Univ.


B134 802.5 Sodium Salicylate Prevents TNF Alpha-Induced Reductions in Insulin-Stimulated eNOS\(^{\text{Ser1177}}\) Phosphorylation but Not Akt in Human Aortic Endothelial Cells R.A. Younatham, K.J. Siefers, L.J. Wegman-Points and G.L. Pierce. Univ. of Iowa.

B135 802.6 COX Inhibitor Indomethacin Attenuates Phenylephrine-Induced Vasoconstriction: Differences in OLETF and LETO Vascular Response B.S. Ferguson, T.D. Oliver, R.D. Sheldon, M.A. Linden, C.A. Emter, R.S. Rector and M.H. Laughlin. Univ. of Missouri-Columbia.


804. VASCULAR SMOOTH MUSCLE I

Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B150 804.1 High Activity of Large-Conductance Ca\textsuperscript{2+}-Activated K\textsuperscript{+} Channels Underlies Weak Myogenic Tone of Rat Mesenteric Arteries in Comparison of Cerebral Artery E.Y. Seo, M.C. Yun, Y.H. Zhang and S.J. Kim. Seoul Natl. Univ. Coll. of Med.


B158 804.9 Arterial Smooth Muscle Proliferative Responses to ET-1 Are Subject to Hypoxic Pre-conditioning in Term Fetal Lamb Arteries D. Kim, J. Silpanisong, M. Hubbell and W.J. Pearce. Loma Linda Univ.

805. DIABETES AND INSULIN RESISTANCE I

Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B159 805.1 Gestational Chronic Intermittent Hypoxia Impairs Hepatic Gluconeogenesis in the Offspring J. Cirillo, W. Iqbal and D.B. Hardy. Univ. of Western Ontario.


B163 805.5 Antiglycemic Benefits of Enhanced External Counterpulsation in Patients with Type II Diabetes Mellitus P.D. Sardina, J.C. Avery, J.S. Martin and R.W. Braith. Univ. of Florida and Quinnipiac Univ., CT.

B164 805.6 Plasma from Type 2 Diabetes Patients Increase Monocyte-Derived Superoxide Production via ER Stress-NADPH Oxidase Pathway S.H. Deo, J. Padilla and P.J. Fadel. Univ. of Missouri-Columbia.

B165 805.7 P2Y2 Receptor Facilitates High-Fat Diet Induced Insulin Resistance B.K. Kishore, Y. Zhang, K.M. Heiney and C.M. Ecelbarger. Univ. of Utah/VA Med Ctr and Georgetown Univ.


B167 805.9 Short-Term Moderate Sleep Restriction Increases Insulin Concentration following Oral Glucose Tolerance Test X. Wang, J. Greer, R. Porter, K. Kaur, S.D. Youngstedt and R. Fayad. Univ. of South Carolina and Arizona State Univ.

Visit the Exhibits
March 29 – March 31
Exhibit Hours
Sunday – Tuesday
9:00 AM – 4:00 PM
806. SYMPATHETIC MECHANISMS IN DIABETES AND OBESITY

Poster

MON, 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B168  806.1 Anoctamins are Determinants of Reduced Cholecystokinin Sensitivity of Vagal Afferents and Impaired Satiety in Obese Mice on High Fat Diet Y. Lu, R. Wang, M.Z. Cicha, M.W. Chapleau and F.M. Abboud. Univ. of Iowa and VA Med. Ctr.


B173  806.6 Effect of Stress on Glucose Uptake in Skeletal Muscles: Roles of Beta Adrenergic Receptors Y. Li. Univ. of South Dakota.

807. ACUTE KIDNEY INJURY

Poster

MON, 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B175  807.2 Endothelin-1 and the Recovery of Renal Perfusion Post-ischemia E.I. Boesen. Univ. of Nebraska Med. Ctr.


B178  807.5 Endolyn/CD164 Regulates Proximal Tubule Cell Survival P.E. Mattila. Univ. of Pittsburgh.


B180  807.7 Hydrodynamic Isotonic Fluid Delivery Ameliorates Moderate Ischemia/Reperfusion Injury in Rat Kidneys P.R. Corridon, G.J. Rhodes, S.J. Atkinson and R.L. Bacalla. Australian Col. of Kuwait; Sch. of Med., Indiana Univ. and Indiana Univ.-Purdue Univ. Indianapolis.


B182  807.9 Deregulation of miR-21 Contributes to Differential Macrophage Activation in Acute Kidney Injury in Aged Mice S. Pushpakumar, S. Kundu, S. Givvimani and U. Sen. Univ. of Louisville.


B184  807.11 Meprin Interactions with the Catalytic Subunit of Protein Kinase A in Ischemia Reperfusion-Induced Renal Injury J-M. Niyitegeka and E.M. Ongeri. North Carolina A&T State Univ.

808. RENAL HEMODYNAMICS

Poster

MON, 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B190  808.6 Natriuretic Peptides Exert Marked Renoprotective Effects via Activation of the Natriuretic Peptide Receptor GC-A in Podocytes J. Staffell, D. Valletta, A. Federlein, M. Kuhn and F. Schweda. Univ. of Regensburg and Univ. of Würzburg.
B191 808.7 Urotensin II-Induced Store-Operated Ca\(^{2+}\) Entry Stimulates CAMKII/CREB-Dependent Glomerular Mesangial Cell Proliferation and Extracellular Matrix Accumulation. H. Soni and A. Adiabi. Univ. of Tennessee Hlth. Sci. Ctr., Memphis.

B192 808.8 ET\(_a\) Receptors in High Salt Diet-Induced Decline of Renal Autoregulation in Rats. Z. Guan, D.M. Pollock and E.W. Inscho. Univ. of Alabama at Birmingham.


B195 808.11 Luminal Perfusion of In Situ Vasa Recta Capillaries with Calcineurin Inhibitors Enhances Pericyte-mediated Vasodilation. M.C. Kelly, S.S.P. Wildman and C.M. Peppiatt-Wildman. Sch. of Pharm., Univs. of Kent and Greenwich at Medway, U.K.


B201 808.17 Systemic Administration of a Biopolymer-Delivered VEGF Improved Renal Hemodynamics and Microvascular Rarefaction in Renal Artery Stenosis. A.R. Chade, T.W. Harvey and G.L. Bidwell. Univ. of Mississippi Med. Ctr.

B202 808.18 Two-Photon Imaging of Intracellular Ca\(^{2+}\) Handling and Nitric Oxide Production in Endothelial and Smooth Muscle Cells of Isolated Rat Vessels. O. Palygin, B. Stoches, B. Miller, A. Sorokin, A. Geurts and A. Staruschenko. Med. Col. of Wisconsin.

B203 808.19 Implications of Increased Renal Venous Pressure for Renal Hemodynamic and Reabsorptive Function Studied by a Mathematical Model of the Kidney. A. Baird, B. Braam and A. Layton. Duke Univ. and Univ. of Alberta.

B204 808.20 Role of Hemodynamic Factors in the Progression of CKD following AKI. A. Polichnowski, K. Griffin, M. Picken, J. Long, G. Williamson and A. Bidani. Hines VA Hosp./Loyola Univ. and Illinois Inst. of Technol.


809. RENAL TRANSPORT AND REGULATION II

Poster

MON, 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIB HALLS A & B

Presentation time: 12:45 PM—3:00 PM


B212 809.4 Shear Stress Dependent Regulation of Apical Endocytosis in Renal Proximal Tubule Epithelia. V. Raghavan, R. Rbaifi, F. Carattino, M.D. Carattino and O.A. Weisz. Univ. of Pittsburgh.


B214 809.6 Increase in Tubular Flow Directly Induces Hypertrophy of Proximal Tubular Cells. D. Valletta, A. Schreiber, I.M. Schießl and F. Schweda. Univ. of Regensburg, Germany.


B219 809.11 AMPK Phosphorylates Urea Transporter A1 and Aquaporin 2 in Rat Inner Medullary Collecting Ducts J.A. Ruiz, P.A. Molina, L. LaRocque, J.D. Klein and J.M. Sands. Emory Univ.


B228 809.20 FDA-Approved PDE4 Inhibitor Rolflumilast Enhances Vasopressin-Induced Aquaporin-2 Phosphorylation Changes in Renal Collecting Duct E. Umejiego, C-L. Chou and M.A. Knepper. NHLBI, NIH.


B231 809.23 Elucidating the Physiological Role of Gprc5c, a Novel Orphan GPCR in the Kidney P. Rajkumar and J.L. Pluznick. Johns Hopkins Sch. of Med.


810. BLOOD PRESSURE AND FLUID VOLUME REGULATION IN PREGNANCY AND DEVELOPMENTAL PROGRAMMING

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIB HALLS A & B

Presentation time: 12:45 PM–3:00 PM
811. HYPERTENSION: DEVELOPING CONCEPTS

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM—3:00 PM


B251  811.4 Hypertension Causing Mutations in Cullin3 Decrease RhoA Ubiquitination and Sequester Substrate Adaptors S-R.C. Ibeawuchi, L.N. Agbor, F.W. Quelle and C.D. Sigmund. Univ. of Iowa.

B252  811.5 Short Chain Fatty Acid Metabolites Lower Blood Pressure via Endothelial Gpr41 N. Natarajan and J.L. Pluznick. Johns Hopkins Univ. Sch. of Med.


B256  811.9 Endothelial Cell-Derived Endothelin-1 Regulates Skin Na+ Storage: Evidence for Sex Differences J.S. Speed and D.M. Pollock. Univ. of Alabama at Birmingham.

B257  811.10 Angiotensin-II Induced Hypertensive Renal Injury Is Mediated through HMGB1-TLR4 Signaling in Rat Tubulo-Epithelial Cells A.R. Nair, P.J. Ebenezer and J. Francis. LSU, Baton Rouge.


B265  811.18 Leptin-Induced Hypertension Is Aldosterone Dependent in Obese Females A-C. Huby, M. Cortez-Coope, J. Cannon and E.J. Belin De Chantemele. Georgia Regents Univ. and Georgia Regents Univ. Col. of Allied Hlth. Sci.


B268  811.21 Intratracheal Growth Restriction Induced by Reduced Uterine Perfusion in the Mouse Programs Impaired Glucose Homeostasis in Female Offspring S. Intapad. Univ. of Mississippi Med. Ctr.

B269  811.22 Melanocortin-4 Receptor Deficiency Promotes Increases in High-Fat Diet-Induced Body Weight Gain and Visceral Fat, but Not Hypertension, during Pregnancy F.T. Spradley, A.C. Palei and J.P. Granger. Univ. of Mississippi Med. Ctr.

812.26 Renal Denervation Does Not Affect Blood Pressure in Mice with Renal-Specific Downregulation of Dopamine D2 Receptors A. Crusan, L. Asico, P. Konkalmatt, C. Escano, Y. Yang, D. Louis, P. Jose and I. Armando. Univ. of Maryland Sch. of Med.

813. SEX DIFFERENCES IN BLOOD PRESSURE AND FLUID VOLUME HOMEOSTASIS

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


814. GENE EDITING, NON-CODING RNA, AND SYSTEMS BIOLOGY/BIOINFORMATICS

Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B291 814.1 A CRISPR/Cas9 System Based Targeted Disruption of a Novel Rat Long Non-coding RNA in a Rat Genetic Model of Hypertension X. Cheng, S. Miller, W. Filipiak, B. Mell, T. Saunders and B. Joe. Univ. of Toledo; Washington Univ. in St. Louis and Univ. of Michigan.

B292 814.2 A Report for Applying CRISPR/Cas9 Genome Editing Technologies on Mouse Zygotes from Taiwan Transgenic Mouse Model Core Facility S-K. Chang, I-S. Yu, Y.C. Hsu, M-S. Tsai, C-Y. Chen, C-L. Hong and S-W. Lin. Ministry of Sci. and Technol., Taipei; Natl. Taiwan Univ. and Natl. Taiwan Univ. Col. of Med.

B293 814.3 Development of a Novel Gper-1 Knockout Rat Model Using a Modified CRISPR/Cas9 Technology H. Waghuide, S. Miller, W. Filipak, B. Mell, T. Saunders and B. Joe. Univ. of Toledo; Washington Univ. and Univ. of Michigan.


B298 814.8 miRNA-Mediated Regulation of mTORC1 Is Important for the Growth of Proximal Tubules in the Mouse Metanephric Kidney V. Kamar, J. Hassey, D. Romaker and O. Wessley. Lerner Res. Inst., Cleveland Clinic and Med. Col. of Wisconsin.

B299 814.9 Analysis of MicroRNA-22 on Cardiac Hypertrophy Induced by High Fat Diet E.C. Guedes and G.P. Diniz. Univ. of São Paulo.


815. AGING AND MUSCLE FUNCTION

Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


815. AGING AND MUSCLE FUNCTION
B313  815.7  Tendon Cells Demonstrate Store-Operated Calcium Entry Capacity and Differences in Calcium Signaling through Aging. K. Johnson, J. Vallejo, M. Broto and E. Abreu. Univ. of Missouri-Kansas City


816.  SMOOTH MUSCLE PHYSIOLOGY/PHARMACOLOGY

Poster

Mon. 7:30 AM—Boston Convention & Exhibition Center, Exhibit Halls A & B

Presentation time: 12:45 PM—3:00 PM


B320  816.3  Functional oles for Kᵥ7.2 and Kᵥ7.3 channels in guinea pig urinary bladder smooth muscle revealed by the novel Kᵥ7.2/Kᵥ7.3 channel opener ICA-069673. A. Provence, J. Malysz and G.V. Petkov. Univ. of South Carolina.

817.  NUTRITION AND NUTRIENT METABOLISM

Poster

Mon. 7:30 AM—Boston Convention & Exhibition Center, Exhibit Halls A & B

Presentation time: 12:45 PM—3:00 PM


B325  817.5  Impaired Glucose Handling Is Revealed in Prostate Cancer Patients. K.M. Di Sebastiano, K.E. Bell, P. Fortin, R. Rachakonda and M. Mourtzakis. Univ. of Waterloo; McMaster Univ. and Grand River Reg. Cancer Ctr., Ont., Canada.


B329  817.9  Possible Mechanism for Synaptamide-Induced Neuritogenesis. S. Sonti, R. Duclos, R. Loring and S. Gatley. Northeastern Univ.

818. OBESITY AND SATIETY

Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER,
EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B331  818.1  High Protein Meals Decrease the Ratio of Acyl and Desacyl Ghrelin to Peptide YY in Children with Prader-Willi Syndrome S.A. Loehr, M.L. MacKenzie, B. Gaylinn, M.O. Thorner and A.M. Haqq. Univ. of Alberta and Univ. of Virginia Sch. of Med.

B332  818.2  Diet-Induced Obesity and Hepatic ER Stress Increase Mig6 and Dampen EGFR Activity A.J. Lutkewitte, Y-C. Chen, J.L. Hansen and F.T. Patrick. Indiana Univ. Sch. of Med.

B333  818.3  Metabolic Effects of Temporarily Targeted Food Restriction in Female Rats with or without Estrogen R.J. Naukam and K.S. Curtis. Oklahoma State Univ. Ctr. for Hlth. Sci.


B337  818.7  Estrogen Effects on Food and Fluid Intake by Ovariectomized Rats during Chronic Dehydration D. Sloan and K. Curtis. Oklahoma State Univ. Ctr. for Hlth. Sci.


B341  818.11  Mechanisms Responsible for Ceramide-Induced Vascular Dysfunction Observed In Vivo are Operational In Vivo L. Bharath, T. Ruan, Y. Li, Q. Zhang, E.D. Abel and J.D. Symons. Univ. of Utah and Univ. of Iowa.

819. EXERCISE AND MUSCLE AND BONE METABOLISM

Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER,
EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B343  819.2  L-Leucine Increases Skeletal Muscle IGF-1 Peptide but Has no Effect on Akt/mTOR Signaling in Response to Resistance Exercise in Trained Men D.D. Church, N.A. Schwarz, M. Spillane, S.K. McKinley, T.L. Andre, J.R. Stout, J.R. Hoffman and D.S. Willoughby. Univ. of Central Florida; Baylor Univ. and Univ. of South Alabama.


B345  819.4  Effects of Novel Multi-nodal Micro-vibration at Multiple Frequencies on Bone Turnover Markers and Bone Strengthen in Ovariectomized Rats S. Liu, R. Moncada, V. Schetter and B. Ezenwa. Univ. of Wisconsin-La Crosse and BEzenwa Biomed. Engin. LLC, Mequon, WI.


B349  819.8  The Effects of Endurance Exercise and Caloric Restriction on Geometry and Densitometry of Cortical Bone in Adult Male Rats C-Y. Tsai and T-H. Huang. Natl. Cheng Kung Univ., Taiwan.


820. SEX HORMONE EFFECTS ON AUTONOMIC AND ENDOTHELIAL FUNCTION

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B355 820.4 Sex Differences in GABAergic Neurotransmission to Gastric-Projecting DMV Neurons T. Babic. Penn State Hershey Col. of Med.


B358 820.7 Elevated Cardiac Vagal Tone in Hypoestrogenic Active Premenopausal Women with Functional Hypothalamic Amenorrhea E. O’Donnell, J.M. Goodman, B.L. Morris, J.S. Flores and P.J. Harvey. Univ. of Toronto; Mount Sinai Hosp., Univ. of Toronto and Women’s Col. Hosp., Univ. of Toronto.


821. AUTOPHAGY IN MUSCLE

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B360 821.1 Autophagosome-Proteolysis Contribute to CKD-Induced Muscle Atrophy M. Li, W.E. Mitch and X.H. Wang. Emory Univ. and Baylor Col. of Med.


B365 821.6 Loss of Ulk1 in Skeletal Muscle and Heart Prevents Exercise Protection against Diet-Induced Insulin Resistance V.A. Lira, J.A. Call, R.C. Laker, A.K. Lira, M. Zhang and Z. Yan. Univ. of Iowa; Univ. of Georgia and Univ. of Virginia.


B368 821.9 Ulk1 Is Required for Lysosome Targeting to Damaged Mitochondria following Acute Exercise R.C. Laker, V.A. Lira, R.J. Wilson, M. Zhang and Z. Yan. Univ. of Virginia and Univ. of Iowa.


822. EROGENICS AND DETECTION

Poster

**MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B**

**Presentation time:** 12:45 PM–3:00 PM


823. FLUID BALANCE, BLOOD VOLUME REGULATION AND TRAUMA

Poster

**MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B**

**Presentation time:** 12:45 PM–3:00 PM


B379 823.7 Reproducibility of Near Infrared Spectroscopy-Derived Peripheral Muscle Oxygenation Measurements at Rest and during Central Hypovolemia G. Pham, V.L. Kay and C.A. Rickards. Univ. of North Texas Hlth. Sci. Ctr.


824. METABOLISM AND ENERGETICS OF MUSCLE AND RELATED TISSUES

Poster

**MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B**

**Presentation time:** 12:45 PM–3:00 PM


B384 824.4 Ceramide-induced Mitochondrial Fission Is Necessary for Sidestream Cigarette Smoke-Induced Cardiometabolic Disruption B. Bikman. Brigham Young Univ.


B387 824.7 The Role of Nrf2 in Muscle Phenotype and Mitochondrial Function M.J. Crilly and D.A. Hood. Sch. of Kinesiol. and Hlth. Sci., York Univ., Canada.

B388 824.8 Late-Onset Caloric Restriction Alters Skeletal Muscle Metabolism by Modulating Pyruvate Metabolism J-X. Yu, S-Y. Lin, Z-J. Li and C-N. Chen. Chang Gung Univ., Taiwan.


825. MUSCLE ATROPHY AND HYPERTROPHY

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B400 825.1 Acupuncture Plus Low-Frequency Electrical Stimulation Attenuates Diabetic Myopathy by Enhancing MuscleRegeneration A. Robinson, J.D. Klein and X.H. Wang. Emory Univ. and Xavier Univ. of Louisiana.


B403 825.4 Effect of Resveratrol on Chemokine-Induced Atrophy R. McCormick, C. Ford, M. Jackson, A. McArdle and A. Vasilaki. Univ. of Liverpool.


B405 825.6 Effects of Quercetin on Muscle Function during IL-6-Induced Cancer Cachexia C. Davenport, K. Hetzler and J. Carson. Winthrop Univ. and Univ. of South Carolina.


B409 825.10 Long-Term Capsaicin Administration Effects on Skeletal Muscle Function in Aging Mice M. Benson, C. Receno, A. Le, S. Ruby, C. Liang, L. DeRuisseau and K. DeRuisseau. Syracuse Univ. and Le Moyne Col., NY.


B411 825.12 Transcriptional Activation of Zing Finger Protein 593 during Neurogenic Skeletal Muscle Atrophy H.C. Orschech and D.S. Waddell. Univ. of North Florida.

B412 825.13 Delayed Activation of Muscle Protein Synthesis following Resistance Exercise in Mice Is mTORC1-Dependent N.W. Aguirre and K. Baar. Univ. of California, Davis.

B413 825.14 Transcriptional Activation of Neuromuscular Junction Genes Is Altered in Muscle RING Finger 1 Null Mice D. Tran and D. Waddell. Univ. of North Florida.

B414 825.15 Neurogenic Atrophy-Induced Nicotinic Acetylcholine Receptor ε γ Subunit Switching Is Impaired in Muscle RING Finger 1 Null Mice H. George and D. Waddell. Univ. of North Florida.


B417 825.18 Lack of REDD1 Limitsinsulin Action on Skeletal Muscle mTORC1 and TSC2 D.L. Williamson, D.C. Wright and C.M. Dungan. Univ. at Buffalo.


B419 825.20 Lewis Lung Carcinoma Regulation of Mechanical Stretch-Induced Protein Synthesis in Cultured Myotubes S. Gao and J.A. Carson. Univ. of South Carolina.
826. MUSCLE PLASTICITY AND GENE REGULATION/_EXPRESSION

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B428 826.6 C/EBPα and C/EBPβ Have Unique Functions during Early Myogenesis E. Cavanaugh and J.X. DiMario. Rosalind Franklin Univ. of Med. and Sci.

B429 826.7 Identifying the Role of ERX2 and the Network of EMX2-Sensitive Genes in Cell Lineage-Dependent Muscle Fiber Type Specification K. Weimer and J.X. DiMario. Rosalind Franklin Univ. of Med. and Sci.


B431 826.9 Effect of Doxorubicin Treatment on Myogenic Regulatory Factor Protein Expression in Skeletal Muscle C.J. Quinn, E.C. Bredahl, R. Hayward and D.S. Hydock. Univ. of Northern Colorado.


827. AUTONOMIC ADJUSTMENTS TO EXERCISE

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B435 827.1 Potassium Channel Dysfunction in Dorsal Root Ganglia Contributes to the Exaggerated Exercise Pressor Reflex in Heart Failure H. Wang, G.J. Rozanski and I.H. Zucker. Univ. of Nebraska Med. Ctr.


B441 827.7 Augmented Skeletal Muscle Metaboreflex Activation in Patients with Type 2 Diabetes Mellitus S.W. Holwerda, R.M. Restaino, J.P. Fisher and P.J. Fadel. Univ. of Missouri-Columbia and Univ. of Birmingham Sch. of Sport, Exer. and Rehab. Sci.
828. HYPOTHALAMIC AUTONOMIC CONTROL OF METABOLISM

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B442 828.1 Specific Control of Resting Metabolism by Angiotensin AT1A Receptors in Leptin-Sensitive Cells K.E. Claflin and J.L. Grobe. Univ. of Iowa.


B445 828.4 The Role of the Hypothalamus in the Seasonal Response to Adenosine A1 Receptor Agonist-Induced Hibernation C. Frare and K.L. Drew. Univ. of Alaska Fairbanks.

B446 828.5 Differential Involvement of POMC and AgRP Neurons in the Regional Sympathetic Responses to Leptin B.B. Bell, S.M. Harlan, D.A. Morgan and K. Rahmouni. Univ. of Iowa.


829. SYMPATHETIC MECHANISMS IN HEART FAILURE

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B450 829.2 Reduced miR-133a Results in Upregulation of Angiotensinogen in the Paraventricular Nucleus of Rats with Chronic Heart Failure N.M. Sharma, S.S. Nandi, H. Zheng, P.K. Mishra and K.P. Patel. Univ. of Nebraska Med. Ctr.

B451 829.3 Reduced Carotid Body KLF2 Expression Contributes to Autonomic and Respiratory Dysfunction in Chronic Heart Failure N.J. Marcus, Y. Ding, R. Del Rio and H.D. Schultz. Univ. of Nebraska Med. Ctr.; Univ. of North Texas and Autonomous Univ. of Chile, Santiago.

B452 829.4 In Heart Failure, Can Renal Denervation Attenuate the Increased Cardiac Sympathetic Drive? M.I. Pinkham, G. Whalley, S-J. Guild and C. Barrett. Fac. of Soc. and Hlth. Sci., Unitec Inst. of Technol. and Univ. of Auckland.


830. SYMPATHETIC MECHANISMS IN HYPERTENSION

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B461 830.8 Increased Renal Pelvic Pressure Elicits Excitatory or Inhibitory Responses in Rat Renal Afferent Nerves that Is Reduced by Renal Nerve Ablation L. Janks and M.M. Knueper. St. Louis Univ. Sch. of Med.
831. SYMPATHETIC REGULATION IN DISEASE

Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B464 831.3 Tonic Effects and Vascular Reactivity in Rats Submitted to Parkinsonism by Infusion of Bilateral 6-OHDA in Substantia Nigra D. Ariza, C. Higashi, J.G. Gameiro, G.S. Ceravolo, C.C. Crestani and M.C. Martins-Pinge. State Univ. of Londrina, Brazil and State Univ. of São Paulo.

B465 831.4 Primary PCI Is Associated with Different Cardiac Autonomic Patterns in Relation to the Site of Myocardial Infarction E. Tobaldini, E.M. Fiorelli, M. Prado, A. Queiroz, T. Kara, G. Costantino, A. Belloni, L. Campi, P. Danna, R. Sala, M. Vieccia and N. Montano. Univ. of Milan; Sch. of Phys. Educ. and Sport, Univ. of São Paulo; St. Anne’s Univ. Hosp., Brno, Czech Republic and L. Sacco Hosp., Milan.


B471 831.10 Reduced Ability to Maintain Cardiac Output and Arterial Pressure during Coronary Artery Occlusion in Conscious Paraplegic Mice H.L. Lujan and S.E. DiCarlo. Wayne State Univ. Sch. of Med.


832. CEREBRAL CIRCULATION II

Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B473 832.1 The Angiotensin II Type-1 Receptor Is a Mechanosensor in Cerebral Parenchymal Arteriole Smooth Muscle Cells P.W. Pires and S. Earley. Univ. of Nevada Sch. of Med.


B475 832.3 Pulse Pressure Reveals Shear Stress-Dependent eNOS Activity in Mice Cerebral Arteries A. Raignault, V. Bolduc, F. Lesage and E. Thorin. Univ. of Montreal; Montreal Heart Inst. and Ecole Polytech de Montreal.

B476 832.4 Aldosterone Decreases Nitric Oxide Mediated Dilatation through a Histamine H2 Dependent Mechanism in Intracerebral Arteries from Human and Mice K.S. Lyngsø, F.R. Poulsen and P.B.L. Hansen. Univ. of So. Denmark and Odense Univ. Hosp.


B481 832.9 Unique Ion Channel Properties of Brain Capillary Endothelial Cells T. Longden and M. Nelson. Univ. of Vermont and Univ. of Manchester, U.K.


B483 832.11 Vertebrobasilar Remodeling in Hypertension: Cause or Consequence D. Wals and J.F. Paton. Univ. of Bristol.
833. BAROREFLEX AND CHEMOREFLEX CONTROLS OF THE HUMAN CEREBRAL CIRCULATION

Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B488 833.5 Acute Natural Cocoa Consumption Improves Cerebral Vasodilatory Capacity in Obese Individuals C. Hurr, M.L. Harrison and R.M. Brothers. Univ. of Texas at Austin.

B489 833.6 Inter-individual Relationships between Sympathetic Arterial Baroreflex Function and Cerebral Perfusion Control in Healthy Males T.G. Witter, C. Taylor, T. O'Donnell, J. Kusel, P. Allan, M. Berry, B. Walker and Y.C. Tzeng. Univ. of Otago and Univ. of Western Sydney.


B491 833.8 Evidence for Bi-directional Feedback Regulation of Blood Pressure and Cerebral Blood Flow in Humans Y-C. Tzeng. Univ. of Otago, New Zealand.

834. BLOOD BRAIN BARRIER, BRAIN BLOOD FLOW AND METABOLISM

Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B492 834.1 SERT and the Blood-Brain Barrier: An In-Depth Analysis of the Male Rat Brain L.W. Young, E.S. Darios and S.W. Watts. Michigan State Univ.


B495 834.4 Hydrogen Sulfide Inhibits Homocysteine-Induced Synaptic Remodeling in Mice Hippocampus via. NMDA Receptor P.K. Kamat, A. Kalani and N. Tyagi. Univ. of Louisville.

835. NEUROINFLAMMATION/NEUROPROTECTION/ISCHEMIA

Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B498 835.3 Early Serum and Microglial Expression of Tumor Necrosis Factor-α after Experimental Traumatic Brain Injury Contributes to Behavioral Deficits C-C. Wang, C-C. Chio and C-P. Chang. Chi Mei Med. Ctr., Tainan and Southern Taiwan Univ. of Sci. and Technol.

B499 835.4 Calycosin May Improve Outcomes of Ischemic Stroke in Rats by Inhibiting Activated Microglia in Brain T-W. Kuo and C-P. Chang. Southern Taiwan Univ. of Sci. and Technol.

B500 835.5 Exposure to Optogenetic Blue Light Attenuates Inflammatory Gene Expression in Non-transgenic Murine Microglia K.P. Cheng, J.C. Williams, K. Eliceiri and J. Watters. Univ. of Wisconsin-Madison.

B501 835.6 Quantification of TGFβ1 and Inflammatory Cytokines in Neurons Exposed to Astrocytes Transfected with Nef N. Martínez-Orengo, B. Velázquez, V. Vargas and R. Noel. Ponce Hlth. Sci. Univ. and Univ. of Puerto Rico-Ponce.
**MONDAY PHYSIOLOGY**

**837. NEUROTRANSMISSION AND SIGNALING MOLECULES**

**Poster**

**MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B**

**Presentation time: 12:45 PM–3:00 PM**

B511 837.5 Pentylentetrazol-Induced Seizures during Placental Ischemia: A Potential Model of Eclampsia? J.P. Warrington. Univ. of Mississippi Med Ctr.

B512 838.1 Cytokine Expression Profiles and Electrophysiological Recordings of Dorsal Root Ganglion Cells in an In Vitro Model of Chronic Pain C. Staunton, R. Barrett-Jolley, L. Djourhri and T. Tchippeswamy. Univ. of Liverpool; Iowa State Univ. and King Faisal Univ.


B515 838.4 Activation of the Ghrelin Receptor Mediates NMDA Receptor Phosphorylation at the NR1 Subunit in the Rat Hippocampus B.G. Muniz and M. Isokawa. Univ. of Texas at Brownsville.

**839. ASTROCYTE AND NEUROGLIAL INERRATIONS**

**Poster**

**MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B**

**Presentation time: 12:45 PM–3:00 PM**


B518 839.3 Astrocytic S100B Protein Modulates Glutamate Uptake and Neutrophil Migration In Vitro P. Vig, R. Kuwar, A. Leis and D. Stokic. Univ. of Mississippi Med. Ctr. and Mississippi Methodist Rehab Ctr.


840. COGNITION AND BEHAVIOR

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B521 840.1 The Effects of Spinal Cord Injury on Learning and Memory in Rats J.M. Tieu and M.B. Zimmer. Ferris State Univ., MI.

B522 840.2 The Effects of Perinatal Androgen Deprivation on Body Weight and Spatial Working Memory in Male Rats B. Shah, A. Yn, T. Khan, D. Fickes, P. Vang, K. Jeong, F. Yousaf, G. Taylor, C. Gopalan and C. Gaebelien. St. Louis Col. of Pharm. and Univ. of Missouri-St. Louis.

B523 840.3 Exercise Enhances Following Sleep in Mice Y. Yoshioka, S. Chikahisa, N. Shimizu, T. Shiuchi and H. Sei. Univ. of Tokushima Grad. Sch. and Univ. of Tokushima, Japan.


B525 840.5 The Role of Angiotensin Receptor Type 1 on Corticotropin Releasing Factor Expressing Neurons in Auditory Fear Conditioning R.C. Hurt, O.P. Keifer, K.J. Ressler and P.J. Marvar. George Washington Univ.; Emory Univ. and HHMI, Chevy Chase, MD.


B529 840.9 Effects of Mthfd1 Gene on Mouse Behavior E. Pjetri and S.H. Zeisel. Univ. of North Carolina at Chapel Hill, Kannapolis.


841. COMPARATIVE NEUROBIOLOGY

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B535 841.1 Cultured Chick Forebrain Neurons are Functionally Similar to Rodent Counterpart S.Y. Kuang and B.Z. Gao, Oakland Univ. William Beaumont Sch. of Med. and Clemson Univ.


B539 841.5 Histamine Receptors in Gill of the Bivalve Crassostrea virginica and Actions of Histamine at Gill Interfilamental Junctions A. Harris, J. Harrison, F. Mondelus, E.J. Catapane and M.A. Carroll. Medgar Evers Col., Brooklyn.


842. COMPARATIVE MUSCLE, BEHAVIORAL, AND NUTRITIONAL PHYSIOLOGY

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B542 842.2 Developmental and Behavioral Effects of Altered Microbiome in Drosophila melanogaster Using Antibiotics and Antifungal Treatments A.N. Schein and S.A. Blatch. Stevenson Univ., MD.
843. COMPARATIVE OSMOIC, IONIC, AND ACID-BASE REGULATION

Poster

**MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B**

**Presentation time:** 12:45 PM—3:00 PM

B544  **843.1** Cardiac pH Regulation and Buffering of the Western Painted Turtle (Chrysemys picta bellii) M.J. Oxendine and D.E. Warren. Saint Louis Univ.


B548  **843.5** Hormonal Control of Aquaporin 3 in Tilapia Gill: Direct Actions of Prolactin and Cortisol J.P. Breves, M. Inokuchi, Y. Yamaguchi, A.P. Seale, S. Watanabe, D.T. Lerner, T. Kaneko and E.G. Grau. Skidmore Col., NY; Univ. of Hawaii, Kanehoe; Univ. of Tokyo and Univ. of Hawaii, Honolulu.

B549  **843.6** Gill Ion Transporter Transcript and Protein Abundance during Developmental Increases in Salinity Tolerance of Atlantic Salmon Smolts A.K. Christensen, A.M. Regish and S.D. McCormick. Univ. of Massachusetts Amherst and USGS, Turners Falls, MA.

B550  **843.7** Expression Pattern and RNAi Inhibition of Putative Sodium-Coupled Cation-Chloride Cotransporters in the Mosquito Aedes aegypti C.M. Gillen, D.C. Akuma and P.M. Piermarini. Kenyon Col. and The Ohio State Univ.


B552  **843.9** Sequencing and Gene Expression of HC-9, an Aquaporin-9 Homolog, in Freeze-Tolerant Cope’s Gray Treefrog B. Stogsdill, P.T. Tsou, J. Frisbie and D. Goldstein. Wright State Univ.

B566 844.14 Role of Plasma Dyslipidemia in Regulation of Macrophage K+ Channels: Distinct Role of oxLDL and acLDL C. Osborn, Y. Epshtein and I. Levitan. Univ. of Illinois at Chicago.


B569 844.17 Correlation of Mesenchymal Differentiation and Ion-Channel Activity in Radiation-Induced Resistant Human Glioblastoma Cell Line C-C. Liu, Y-M. Huang, S-N. Wu and C-I. Sze. Natl. Cheng Kung Univ., Taiwan.

B570 844.18 The α2 Isoform of Na,K-ATPase Modulates Vascular Tone via Activation of Src Kinase Signaling Pathway: A Lesion from Mouse Model for Familial Hemiplegic Migraine Type 2 V.V. Matchkov, L. Hangaard, C. Staehr, K. Lykke-Hartmann, Z. Xie and C. Aalkjaer. Aarhus Univ., Denmark and Marshall Univ.


845. ION CHANNELS, TRANSPORTERS AND PUMPS IN HEALTH AND DISEASE

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B577 845.2 Effect of Insulin on Transepithelial Na+ Transport in Renal Principal Cells Grown under Normoglycemic, Hyperinsulinemic Conditions E. Maue, M. Brands and B.L. Blazer-Yost. Indiana Univ.-Purdue Univ. Indianapolis and Georgia Regents Univ.


B580 845.5 Molecular Determinants of the Trafficking of the Cold-Activated Transient Receptor Potential Ion Channel TRPM8 D. Ghosh, G. Owsiannik, S. Pinto, R. Vennekens, A. Segal, P.V. Berghoe, J. Viens and T. Voets. Katholieke Univ. Leuven, Belgium.


B584 845.9 Specific Activation of KCa Channels Contribute to Omega 3 Fatty Acid -Induced Pulmonary Vasodilation N. Chandran, B. Tang, P. Jain and A. Olschewski. Ludwig Boltzmann Inst., Graz and Med. Univ. of Graz, Austria.

B585 845.10 Aldosterone and β-Adrenergic Activation of Colonic K+ Secretion Requires BK Channels (KCa1.1) S. Halm and D. Halm. Wright State Univ. Boonshoft Sch. of Med.

B587 845.12 Plasma Membrane Insertion of KCa2.3 (SK3) Is Dependent upon the SNARE Proteins. Syntaxin-4 and SNAP-23. S.B. Condiffe, C.A. Bertuccio and D.C. Devor. Univ. of Otago, New Zealand and Univ. of Pittsburgh.


B595 845.20 Computational Modeling Suggests a Mechanism of Inhibition of SPAK/OSR1 by a Known RF Pocket Inhibitor. T.M. Austin, S.L. Deluca, J. Meiler and E. Delpierre. Vanderbilt Univ.


B606 845.31 Ouabain Signaling Requires Angiotensin II Type 1 Receptor Activation. C.D. Conner, M. Duijssels, E.D. Lederer and S.J. Khundmiri. Robley Rex VA Med. Ctr. and Univ. of Louisville.


846. ALCOHOLIC AND NONALCOHOLIC FATTY LIVER DISEASE

Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM—3:00 PM


B610 846.3 mTORC1 Inhibition Reduces ER Stress and Ameliorates Alcoholic Liver Injury. S-S. Li, F.A. Ladhani, B. Gao and M. Zang. Boston Univ. Sch. of Med. and NIAAA, NIH.


**847. EFFECTS OF DIET AND METABOLITES ON MUCOSAL IMMUNOLOGY**

**Poster**
**MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B**

**Presentation time: 12:45 PM–3:00 PM**


**848. EFFECTS OF DIET ON GI AND LIVER PHYSIOLOGY**

**Poster**
**MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B**

**Presentation time: 12:45 PM–3:00 PM**


B618 848.4 Regulation of the Primary Intestinal Fructose Transporter GLUT5 Is Dependent on Metabolism by FK and on Trafficking by Rab11a-Dependent Endosomes C. Patel, V. Douard, N. Gao, S. Yu and R.P. Ferraris. Rutgers New Jersey Med. Sch. and Rutgers Univ Newark.

B619 848.5 Sex Differences in Jejunal Mucosal 5-HT (Serotonin) Availability in a Diet-Induced Obesity Mouse Model M. France, J. Galligan and G. Swain. Michigan State Univ.

**849. GASTRIC PHYSIOLOGY AND PATHOPHYSIOLOGY**

**Poster**
**MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B**

**Presentation time: 12:45 PM–3:00 PM**


B622 849.3 Corticotropin Releasing Hormone Expression in an Animal Model of Visceral Hypersensitivity A.A. Mecca, N. El-Ayache and J.J. Galligan. Michigan State Univ.


B624 849.5 CD44 Plays a Functional Role in Helicobacter pylori-Induced Epithelial Cell Proliferation N. Bertaux-Skeirik, R. Feng, M.A. Schumacher, J. Li, M.M. Mahe, A.C. Engevik, R.M. Peek, K. Ottemann, V. Orian-Rousseau, G. Bolivin, M.A. Helmrath and Y. Zavros. Univ. of Cincinnati; Cincinnati Children's Hosp.; Vanderbilt Univ.; Univ. of California Santa Cruz; Karlsruhe Inst. of Technol. and Wright State Univ.


B627 849.8 Chronic CO2 Retention Stimulates Gastric Acid Secretion and Induces Gastric Mucosal Hyperplasia in Rats J.W. Sherwood, C.S. Landon and J.B. Dean. Univ. of South Florida.
MONDAY

850. GASTROINTESTINAL NUTRIENT SENSORS
Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B
Presentation time: 12:45 PM–3:00 PM

B628 850.1 Neurotensin Partially Mediates the Monosodium Glutamate-Induced Peristaltic Reflex D.M. Kendig, V. Bala, K.S. Murthy and J.R. Grider. Virginia Commonwealth Univ.

B629 850.2 The Effect of Obesogens on the Microbiota and Systemic Health in Zebrafish K.D. Tousignant and J.K. Uno. Elon Univ.

B630 850.3 Glucose Modulation of Vagal Sensory Signaling Is Compromised in a Mouse Model of Type 2 Diabetes K. Browning. Penn State Col. of Med.

851. GI HORMONES, PEPTIDES AND RECEPTORS
Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B
Presentation time: 12:45 PM–3:00 PM


B635 851.3 5-HT3 Receptor Signaling in a Rat Model of Sex-Specific Visceral Hypersensitivity N. El-Ayache and J.J. Galligan. Michigan State Univ.


852. GROWTH FACTORS, PROLIFERATION, DIFFERENTIATION AND APOPTOSIS
Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B
Presentation time: 12:45 PM–3:00 PM

B637 852.1 The Neuregulin Receptors ErbB3 and ErbB4 Have Opposing Effects on Intestinal Paneth Cells D. Almohazy and M.R. Frey. Univ. of Southern California and Children's Hosp. Los Angeles.

853. IMMUNOLOGY AND MICROBIOLOGY OF THE GUT
Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B
Presentation time: 12:45 PM–3:00 PM


B642 853.5 Protection of Epithelial Barrier Function against Bacterial Infection by the IBD Candidate Gene PTPN2 M. Krishnan, R. Alvarez, K.M. Bennett, M.G. Nair, D.D. Lo and D.F. McCole. Univ. of California Riverside.

854. INTESTINAL INFLAMMATION AND PATHOPHYSIOLOGY

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM—3:00 PM

B644  854.1  Heterogeneity of Subordination of the IL-18/IFNγ Axis to Caspase-1 among Patients with Crohn’s Disease A. Jarry, C. Bossard, A. Bourreille, C. Volteau, L. Droy, G. Meurette, J-F. Mosnier and C.L. Laboisse. Université de Nantes and CHU Nantes.


B646  854.3  The Pregnane X Receptor Attenuates Cytokine-Induced Intestinal Epithelial Barrier Dysfunction, an Effect Associated with Inhibition of JNK Activation and Enhanced Autophagy A. Garg, L. Alston, S. Erickson and S. Hirot. Univ. of Calgary, Canada.


B648  854.5  Increased Serotonin Availability Contributes to Decreased Bone Density in Colitis B. Lavoie, J.A. Roberts, S.N. Spohn, K.A. Sharkey, J.B. Lian and G.M. Mawe. Univ. of Vermont and Univ. of Calgary.

B649  854.6  Mucosal 5-HT4 Receptors: A Novel Therapeutic Target in Colitis S.N. Spohn, B. Lavoie, S.J. MacEachern, J.A. Roberts, R.L. Wilcox, K.A. Sharkey and G.M. Mawe. Univ. of Vermont; Fletcher Allen Hlth. Care, Burlington and Univ. of Calgary.


B654  854.11  Role of G Protein-Coupled Receptor Kinase 2 in TNFα Signaling in Colon Epithelial Cells M. Steury and N. Parameswaran. Michigan State Univ.


855. MECHANISMS OF INTESTINAL NUTRIENT, WATER AND ELECTROLYTE TRANSPORT

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM—3:00 PM


B662  855.5  Phorbol Dibutyrate Regulation of the Cystic Fibrosis Transmembrane Conductance Regulator Does Not Involve MicroRNAs K. Osmani, M. Ao, J. Domingue, J. Sarathy and M. Rao. Univ. of Illinois at Chicago and Benedictine Univ., IL.

856. PANCREATIC PHYSIOLOGY AND PATHOPHYSIOLOGY

Poster

MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM—3:00 PM


B664  856.2  The Lack of Adenylyl Cyclase 1 Impairs the Inhibitory Effects of Cyclic AMP on Cell Migration and Proliferation in Pancreatic Cancer S.N. Quinn, T. Flakes, E. Holcomb, L. Chavez and M.E. Sabbatini. Georgia Regents Univ.
### 857. TARGETING COLONIC CONTENTS FOR TREATMENT OF DISEASE

**Poster**

**Mon. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B**

**Presentation time:** 12:45 PM–3:00 PM

B665 856.3 Effects of Quercetin in IL-6 and TNF-α Levels in Diabetic Rats  

B666 856.4 Effects of Quercetin on L-Arginine-Induced Acute Pancreatitis in Rats  
Covenant Univ., Nigeria.

B667 856.5 Effect of Passion Fruit Peel Flour on the Prognosis of Acute Pancreatitis in Experimental Model of Obesity  

### 858. CAROTID BODY STRUCTURE AND FUNCTION

**Poster**

**Mon. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B**

**Presentation time:** 12:45 PM–3:00 PM

B672 858.1 Severe Hypoxia Activates BK Channel in Rat Carotid Body Glomus Cells  

B673 858.2 Carotid Body Denervation Attenuates Sympathetic Nerve Activity, Shifts the Pressure-Diuresis Curve to the Left and Improves Survival in rats with Hypertensive Heart Failure  

B674 858.3 Carotid Body Denervation Makedly Improves the Survival of Monocrotaline Induced Pulmonary Hypertension Rats  
680. CONTROL OF BREATHING: CHEMORECEPTION

Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIB HALLS A & B
Presentation time: 12:45 PM–3:00 PM

B686 860.1 Positive Interaction between TRPA1 and TRPV1 Channels in Rat Vagal Bronchopulmonary Sensory Neurons C-C. Hsu and L-Y. Lee. Univ. of Kentucky.


B692 860.7 Antagonism of orexin receptor 1 in the locus coeruleus decreases the hypercapnic ventilatory response in unanesthetized rats during wakefulness M.C. Vicente, M.B. Dias, K.C. Bicego and L.H. Gargaglioni. São Paulo State Univ.

B693 860.8 5-HT1A receptors in the caudal nucleus tractus solitarii mediate arousal to hypoxic hyperpnea in male rats J. Vantrease, N. Dudek and K. Scroggin. Loyola Univ. of Chicago, Maywood.

B694 860.9 Assessing the chemosensitivity of a potential bullfrog homologue to the mammalian retrogene M.D. Reed, K.E. Iceman, M.B. Harris and B.E. Taylor. Univ. of Alaska Fairbanks and Univ. of South Florida.


681. CONTROL OF BREATHING: DEVELOPMENT

Poster
MON. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIB HALLS A & B
Presentation time: 12:45 PM–3:00 PM


B711  861.12 Is the Catecholaminergic System an Important Mechanism for Respiratory Regulation during Hypercapnia and Hypoxia in Newborn Rats (P7-8)? L.G. Patrone, A.C. Capalbo, K.C. Bicego and L.H. Gargaglioni. São Paulo State Univ.


862. LUNG BIOLOGY: ALVEOLAR EPITHELIAL CELL BIOLOGY

Poster

MON. 7:30 AM — BOSTON CONVENTION & EXHIBITION CENTER, EXHIB HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B715  862.2 A Novel Ovine Primary Alveolar Type II Cell Culture Approach M.M. Marcinkiewicz, N. Allen, T. Hubert and M.R. Wolfson. Temple Univ. Sch. of Med.

863. LUNG BIOLOGY: INJURY, REPAIR AND REMODELING

Poster

MON. 7:30 AM — BOSTON CONVENTION & EXHIBITION CENTER, EXHIB HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B716  863.1 Sex Differences in the Lung Inflammatory Response to Acute Ozone Exposure P. Silveyra, N. Cabello and J. Flores. Penn State Coll. of Med.

B717  863.2 ATM Regulation of IL-6 in Response to Acute Ozone Exposure U. Sinha, V. Mishra, N. Cabello, S. DiAngelo, Z. Chronoes and P. Silveyra. Penn State Coll. of Med. and Univ. of Waterloo, Canada.


B719  863.4 Redox Regulation of EGFR Signaling in Innate Airway Epithelial Responses to Injury D.E. Hepner, M. Hristofova, A. Habibovic and A. van der Vliet. Univ. of Vermont.


B721  863.6 Role of SphK1/S1P/Snps2/S1P, Signaling in HGF-Mediated Lamellipodia Formation and Migration of Human Lung Endothelial Cells P. Fu, P. Usatyuk, D.L. Ebenezer and V. Natarajan. Univ. of Illinois at Chicago.

B722  863.7 Gut Commensal Flora and the Inflammommasome Modulate the Sterile Inflammatory Response to Ventilated Lung Ischemia Reperfusion A. Prakash, X. Tian and J. Hellman. UCSF.

B723  863.8 Serum/Glucocorticoid-Regulated Kinase 1 and Transient Receptor Potential Vanilloid Channel 4 Mediate Ventilation-Induced Endothelial Ca2+ Influx and Barrier Failure L. Michealick, M. van der Giet, W. Liedtke and W.M. Kuebler. Charité, Berlin; Duke Univ. Med. Ctr. and Univ. of TorontoSt. Michael’S Hosp.


B726  863.11 Abl Family Kinases Differentially Regulate LPS-Induced Endothelial Barrier Dysfunction A.N. Rizzo, E. Letsiou, M. Brown, J.G.N. Garcia and S.M. Dudek. Univ. of Illinois at Chicago and Univ. of Arizona.

B727  863.12 Microparticles from PAH Rats Increase ICAM-1 Expression in Pulmonary Artery Endothelial Cells L.A. Hargett, T. Yarbrough, A. Haven and N.N. Bauer. Univ. of South Alabama.


B734 863.19 DUOX1 Silencing in Lung Cancer Promotes Epithelial-to-Mesenchymal Transition and Increased Drug Resistance. A.C. Little, M. Hristova and A. van der Vliet. Univ. of Vermont.


B741 863.26 Nuclear S1P Lyase Regulates Histone Acetylation in Pseudomonas aeruginosa-Induced Lung Inflammation. D.L. Ebenezer, P. Fu, E.V. Berdyshev and V. Natarajan. Univ. of Illinois at Chicago.
TUESDAY, MARCH 31

Anatomy

864. ANATOMY: FORM AND VARIATION

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:30 PM–2:15 PM


D218 864.4 A Surgically Relevant Celiac Trunk Variant Featuring Retro-portal Blood Supply to the Gallbladder and the Right Lobe of the Liver C. Ramnanan and M. Zeroual. Univ. of Ottawa Fac. of Med.


D225 864.11 Accessory Thyroid Tissue and Its Possible Clinical Implications D.A. Sawant and T. Moore. Alderson Broaddus Univ., WV.


D229 864.15 Age-Related Variation in Common Carotid Artery and Aorta Diameters S.T. Barton, M.T. Bee and M.C. Savoia. UCSD and Univ. of Detroit Mercy.


865. ANATOMY: FUNCTIONAL ANATOMY AND BIOMECHANICS

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:30 PM–2:15 PM

D233 865.1 Bipedally Trained Rats Have an Increased Hindlimb Muscle Force-Generating Capacity Compared to Quadrupedly Trained Rats C.M. Eng, A. Reed and A.D. Foster. Harvard Univ. and Northeast Ohio Med. Univ.


D243 865.11 Male versus Female Horse Riders: Differences in Musculoskeletal Response to the Force Generated by a Horse at the Trot. M.L. Osborn, J.L. Cornille and E.W. Uhl. Col. of Vet. Med., Univ. of Georgia and Sci. of Motion, Eatonton, GA.


D256 866.6 Positional Relationship of the Fibula to Cross-sectional Geometric Properties of the Tibia as Compared in Different Sporting Groups. A.E. Fazlollah, B.M. Auerbach and C. Shaw. Univ. of Tennessee, Knoxville and Univ. of Cambridge.

D257 866.7 Beyond Biomechanics: Bone Strength Properties of Obese Adults. N.M. Reeves. Univ. of West Georgia and Univ. of Tennessee, Knoxville.


867. EVOLUTION AND COMPARATIVE ANATOMY

Poster

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Evolution/Anthropology

Presentation time: 12:30 PM—2:15 PM


D262 867.3 Anatomical Network Analysis of Primate Skull Morphology. B. Esteve-Altava, J. Boughner, R. Diogo and D. Rasskin-Gutman. ICBIBE, Univ. of Valencia, Spain.


D268 867.9 The Process of Cervico-Cephalic Air Sacs and Their Role in the Vocalizations of Songbirds. A.M. Cozic and D.G. Homberger. LSU, Baton Rouge.

868. IMAGING: TECHNOLOGY AND METHODS

Poster

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:30 PM–2:15 PM


869. IMAGING: ANATOMY

Poster

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:30 PM–2:15 PM


D285 869.3 Validating the Biological Activity of Fluorescently-Labeled IGF1 for In Vivo Imaging G. Ion and M.A. Serrat. Marshall Univ.


D287 869.5 Use of High-Resolution Magnetic Resonance Imaging to Reconstruct Recurrent Laryngeal Nerve Structure in 3D N.L. Mason, S. Robison, A. Benvie and J.J. Wisco. Brigham Young Univ.; Utah Valley Univ. and Univ. of Utah Sch. of Med.

870. DEVELOPMENT AND GROWTH: BIRTH DEFECTS

Poster

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Developmental Biology

Presentation time: 12:30 PM–2:15 PM


871. DEVELOPMENT AND GROWTH: LIMBS

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Developmental Biology
Presentation time: 12:30 PM–2:15 PM


872. DEVELOPMENT AND GROWTH: CRANIOFACIAL

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Developmental Biology
Presentation time: 12:30 PM–2:15 PM


873. DEVELOPMENT AND GROWTH: NEURAL CREST AND PLACODES

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Developmental Biology
Presentation time: 12:30 PM–2:15 PM


874. DEVELOPMENT AND GROWTH: GENE AND PROTEIN EXPRESSION

Poster

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Developmental Biology

Presentation time: 12:30 PM–2:15 PM

D312 874.1 Sodium Nitrate Decreases Agrin-Induced AChR Clustering C. White and W.A. Grow. Midwestern Univ., AZ.

D313 874.2 Myostatin Inhibitors Affect MyoD and Myogenin Expression J. Sohn and W.A. Grow. Midwestern Univ., AZ.

D314 874.3 A Novel Approach to Identify the Sex of Marine Turtles B. Tezak and J. Wyneken. Florida Atlantic Univ.

875. DEVELOPMENT AND GROWTH: ORGANOGENESIS

Poster

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Developmental Biology

Presentation time: 12:30 PM–2:15 PM


D316 875.2 The Marsupial Intervertebral Disc: An Anatomical Characterization J.A. Maier, E. Jauregui and K.E. Sears. Univ. of Illinois at Urbana-Champaign.


D318 875.4 The Hapl1na-ECM Influences Sema3d Signal Transduction during Fin Regeneration M.K. Iovine and J. Govindan. Lehigh Univ.


D320 875.6 Change of PACAP Receptor Expressing Cells during the Development of Granular Duct in Male Mouse Submandibular Glands N. Nonaka and M. Nakamura. Showa Univ., Japan.


D322 875.8 Stromally Expressed β-Catenin Modulates Wnt9b in the Ureteric Epithelium D. Bridgewater and F. Boivin. McMaster Univ., Canada.

D323 875.9 Evaluation of the In Vivo Role of Cold-Inducible RNA Binding Protein in Breast Development and Disease D.A. Lujan and R.S. Hartley. Univ. of New Mexico Hlth. Sci. Ctr.

876. REGENERATIVE MEDICINE, STEM CELLS, WOUND HEALING AND BIOENGINEERING

Poster

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Regeneration/Tissue Engineering

Regenerative Medicine (Stem Cells, Tissue Regeneration, Biomaterials)

Presentation time: 12:30 PM–2:15 PM


D334 876.8 Breastmilk Imparts the Mother’s Stem Cells to the Infant F. Hassiotou, A. Moble, D.T. Geddes, P.E. Hartmann and T.M. Wilkie. Sch. of Chem. and Biochem., Univ. of Western Australia and Univ. of Texas Southwestern Med. Ctr.

D335 876.9 Withdrawn.
D336 876.10 Corneal Injury and Repair in the Zebrafish J. Roell, A. Antoine and P.J. Lafontant. DePauw Univ.


Biochemistry and Molecular Biology

877. CHROMATIN STRUCTURE AND GENE EXPRESSION

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:05 PM—1:35 PM


A2 877.2 Role of the MicroRNA-Processing Enzyme Drosha in Vascular Development A. Hata, X. Jiang, G. Lagna and D. Hart. UCSF.


A4 877.4 Unraveling Mechanistic Features of RNA Polymerase II Termination by the 5'-3' Exoribonuclease Rat1 J. Park, M. Kang and M. Kim. Seoul Natl. Univ.


A6 877.6 Role of H3K36me2 in Palmitate Induced Metabolic Memory in Human Podocytes S. Kumar and K. Tikoo. NIPER, SAS Nagar, Punjab, India.


A9 877.9 RNAi and Chromatin Remodeling Pathways Regulate Reproductive Phenotypic Plasticity in C. elegans D.A. Jackson, S.E. Hall and M.C. Ow. Syracuse Univ.


A12 877.12 Peptide Microarrays to Examine RNA Polymerase II Binding Protein Domains A.P. Lothrop, J.R. Cannon and S.M. Fuchs. Tufts Univ.

A13 877.13 Examining Changes to Chromatin during Chronological Aging in Budding Yeast I. Quasem and S.M. Fuchs. Tufts Univ.


A15 877.15 The Brahma Chromatin Remodeling Complex and its Multiple Roles in Regulating Circadian Transcription R.S. Kwok, Y.H. Li and J.C. Chiu. Univ. of California, Davis.

A16 877.16 PAX3-FOXO1 Directed Transcriptional Activation Is Mediated by PAX3 and FOXO1 Recognition Sequences T. Cherlin, M. Bratton and K. Johanson. Xavier Univ. of Louisiana.
A31 878.9 Localization to the Nuclear Pore Complex
Is Required for Stabilizing CAG Repeats X.A. Su, V. Dion,
S.M. Gasser and C.H. Freudenreich. Tufts Univ.: Friedrich

879. SIGNALING REPAIR AND REPAIR MECHANISMS

Poster

Presentation time: 12:05 PM—1:35 PM

A33 879.1 Requirement of Saw1 during Single-Strand
Annealing in Saccharomyces cerevisiae A.D. Miller, L.
Nalbandyan, M. Mrdroosian and P.L. Fischhaber. California
State Univ. Northridge.

A34 879.2 Characterization of hNek10 and hNek5 Kinases
in DNA Damage Response P.F. Papa, T.D.M. Hanchuk and J.
Kobarg, CNPENM and UNICAMP, Campinas, Brazil.

A35 879.3 Structure-Specific Endonuclease XPF-ERCC1
Plays a Critical Role in DNA Interstrand Crosslink Repair that
Is Compromised in Patients with Fanconi Anemia C. Kim, C.
Holland, F. Li, E.Y. Shim and S.E. Lee. Univ. of Texas Hlth.
Sci. Ctr. at San Antonio and Vanderbilt Univ.

A36 879.4 Delta-Tocotrienol Mediates the Cellular
Response to Radiation-Induced DNA Damage through
Upregulation of Anti-apoptotic Effectors in Human Lung
Fibroblast Cell Lines K.M. Folkers, M. Satyamitra and V.

A37 879.5 Sexual Healing: Examining the Role of Meiosis
Genes in DNA Damage Repair E.Y. Jasso, L.A. Hattabaugh
and A.M. Schurko. Hendrix Col., AR.

A38 879.6 The Role of DNA Damage in the Pathogenesis
of Nitrate Tolerance Y. Mikhed, M. Oelze, S. Kröller-Schön, E.
Zinssius, M. Mader, P. Stamm, P. Welschot, T. Münzel and A.
Daiber. Med. Ctr., Johannes Gutenberg Univ. of Mainz.

A39 879.7 Function of the N-terminal Segment of
the RecA-Dependent Nuclease Ref R.H. Dvorak, A.J. Gruber,
T.M. Olsen and M.M. Cox. Univ. of Wisconsin-Madison.

A40 879.8 Interplay between Artemis and TDP1 in
Sensitivity to Radiomimetic Agents A. Kawale, T. Zhou, K.
Akopiants and L. Povirk. Virginia Commonwealth Univ.

A41 879.9 Role of Yeast Rad51 Interface Residue F187A
and DNA Binding Loop 1 Residue F290 in Coordinating DNA
Binding, ATPase, and DNA Strand Exchange Activities M.C.
Silva, N. Villanueva, T.R. Mandigo, X-X. Nguyen and S.W.
Morrical. Univ. of Vermont Col. of Med.

A42 879.10 MCM8-9 Complex Promotes Rescue of
Double-Strand Break Ends by Mre11-Rad50-Nbs1 Complex A.
Dutta and K. Lee. Univ. of Virginia.

A43 879.11 Base Flipping in Lesion Search and Recognition
by the Human Thymine DNA Glycosylase Revealed by Single
Molecule Imaging I. Tessmer, C.N. Buechner, A. Maiit and A.
Drohat. Univ. of Wuerzburg and Univ. of Maryland Baltimore.

A44 879.12 Mismatch Tolerance during Homologous
Recombination in Mammalian Cells S. Li, B.C. Waldman and
A.S. Waldman. Univ. of South Carolina.

878. GENOMIC DIVERSITY AND STABILITY

Poster

Presentation time: 7:30 AM—Boston Convention & ExhiBition Center,
Exhibit Halls A & B

A23 878.1 Characterization of HS29K Nucleoid
Associated DNA Binding Protein with Mn2+- SOD Activity
from Halophilic Archaeon Halobacterium salinarium Strain H3
R.P. Kotipatruni and S. Tangirala. Univ. of Hyderabad and
Washington Univ. in St. Louis.

A24 878.2 Molecular Characterization of
Extrachromosomal MicroDNAs in Human Cancer Cell Lines
Using Synthetic Minicircles D.R. Pan, L.W. Dillon and A.
Dutta. Univ. of Virginia Sch. of Med.

A25 878.3 Characterization of a Putative Fanconi Anemia
D2 Protein Histone-Binding Domain and Chromodomain N.G.
Howlett, P.A. Azzinaro and K.L. Paquin. Univ. of Rhode Island.

A26 878.4 Frequency and Mechanism of Expansion of
the C-terminal Domain of Yeast RPB1 S. Morrill and S. Fuchs.
Tufts Univ.

A27 878.5 Taking the Yeast Genome by “Storm”:
Beginning to Simplify Saccharomyces cerevisiae C. Lin
and A.M. Tartakoff. St. John’s Univ., NY and Case Western
Reserve Univ.

A28 878.6 Unleashing the True Recombination Power of
RecA by Conjugational Screening of Random Mutants in the
MAW Region K.S. Herlambang, T. Kim and M.M. Cox. Univ.
of Wisconsin-Madison.

A29 878.7 Analysis of the Stability of a Type III Secretion
System Containing Pathogenicity Island in the Human
Pathogen Vibrio cholerae M.C. Peters, M.R. Carpenter and F.
Boyd. Univ. of Delaware.

A30 878.8 Repair Proteins and Transcription Factors
Compete S.P.G. Moore, J. Kruchten, K.J. Toomire and P.R.
Strauss. Northeastern Univ.
A45 879.13 Analysis of the Mechanism of DNA Damage and Replication Arrest-Induced Histone mRNA Decay. P. Panomwan and C. Smythe. Univ. of Sheffield.


A47 879.15 Insights into the Northeastern Region of the DNA Damage Response in Acinetobacter baumannii. C. Ching and V.G. Godoy. Northeastern Univ.

A48 879.16 The DNA Damage Response Induces Autophagy via Mec1(�TR) and Tel1( ATM ) to Regulate the Initiation of Anaphase. V.V. Eapen, D.P. Waterman, A. Bernard, J. Ang, D.J. Klionia and J.E. Haber. Brandeis Univ. and Univ. of Michigan.


A51 879.19 Proximal and Distal interactions of Fanconi Anemia Protein FANCD2 with Genomic Interstrand Crosslinks. M. Paramasivam, P.A. Muniandy, W. Wang and M.M. Seidman. NIA, NIH, Baltimore and Univ. of Maryland Sch. of Med.


A54 879.22 Transcriptional Regulator in Vibrio vulnificus. N. Bhattacharyya, T. Lemon and A. Grove. LSU, Baton Rouge.

A55 879.23 Homocysteine Induces DNA Methyltransferase 1 Transcription through the cAMP Response Element in the DNMT1 Promoter. A.M. Alenad. Sch. of Biol. Sci., Southampton Univ., UK.


A57 879.25 The In Vitro Characterization of the Role of Rad57 in Rad51 Catalyzed Homologous Recombination Repair. M. Cusano, C. Ezenduka and M. Sweasy. Univ. of Saint Joseph, CT.

880. TRANSCRIPTIONAL REGULATION

Poster

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIB HALLS A & B

Presentation time: 12:55 PM—2:25 PM

A58 880.1 Insights into Homodimerization of the Transcription Factor ETS1. D. Samorodnitsky, C. Szyjka and G. Koudelka. Univ. at Buffalo.

A59 880.2 Characterization of a PecS Family Transcriptional Regulator in Vibrio vulnificus. N. Bhattacharyya, T. Lemon and A. Grove. LSU, Baton Rouge.

A60 880.3 Homocysteine Induces DNA Methyltransferase 1 Transcription through the cAMP Response Element in the DNMT1 Promoter. A.M. Alenad. Sch. of Biol. Sci., Southampton Univ., UK.


A66 880.9 Transcriptional Regulation of Cell Cycle Promoting Genes by Ikaros in Leukemia. E. Dovat, J.L. Payne, C. Gowda and C. Song. Lebanon Valley Col., PA; Loma Linda Univ. and Penn State Col. of Med.


A69 880.12 Glutamine tRNA<sub>cus</sub>-Dependent, Nitrogen-Responsive Nuclear Gin3 and Gat1 Localization. J.J. Tate, R. Rai and T.G. Cooper. Univ. of Tennessee, Memphis.

A70 880.13 Characterization of RING Finger/SPRY Domain Containing 1 (Rspy1) and NEFA-Interacting Nuclear Protein 30 (Nip30) Transcriptional Regulation. P. Duffin and D. Waddell. Univ. of North Florida.


A73 880.16 Interactions of FOXO1 Truncations with DNA B. McDaniel, A. Weatherpoon, R. Haynes, T. Cherlin, M. Mottamal and K. Johanson. Xavier Univ. of Louisiana.

A74 880.17 Silent Circuit Affects Metabolism in Escherichia coli K12 V.L. McEney and J.E. Lopilato. Simmons Col., MA.


A79 880.22 Mth1 Regulates the Interaction between the Rgt1 Repressor and the Ssn6-Tup1 Corepressor Complex by Modulating PKA-Dependent Phosphorylation of Rgt1. A. Roy and J-H. Kim. Georgia Washington Univ.

A80 880.23 RET-Dependent Transcriptional Changes of Cell Signaling Proteins in Neuroblastoma Cells. E.Y. Flores and Q. Vega. Montclair State Univ.

A81 880.24 Role of Ets and Runx Family Transcription Factors in the Regulation of Human LAT Gene Expression. L. Glowka, M. Easley and T.S. Finco. Agnes Scott Coll., GA.


A83 880.26 Down-regulation of STAT3 by AZT Treatment. Z.M. Garayalde-Batista, K. Marquez and D. Gomez-Garzon. Univ. Metropolitana, San Juan, PR.

A84 880.27 PAF49 Acetylation Affects the Assembly of the PAF49/PAF53 Heterodimer with Pol I. L. Rothblum, Y. Penrod and K. Rothblum. Univ. of Oklahoma Col. of Med. and Oklahoma State Dept. of Hlth.

A85 880.28 Regulation of Chromatin Accessiblity by GPS2-Mediated Inhibition of Ubiquitin Signaling on Selected Promoters. M.D. Cardamone, B. Tanasa, J. Huang, C. Cederquist, M.G. Rosenfeld and V. Perissi. Boston Univ. Sch. of Med. and UCSD.

A86 880.29 Maternal High Fat Programs Hepatic I/II Expression through Differential DNA Methylation in Male Pups. A. Kriska, H. Wang, H. Chen and Y-X. Pan. Univ. of Illinois at Urbana-Champaign.

A87 880.30 Angiogenin Interacts with Heat Shock Factor 1. K.M. Bultman, A.W. Uebersohn and K.A. Dickson. Lawrence Univ., WI and UCSF.


881. INTRINSICALLY DISORDERED PROTEINS, IDPS: PROTEIN FOLDING AS A REGULATORY PHENOMENON III

(Poster Session I scheduled on Sunday; Poster Session II scheduled on Monday)

Poster

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:05 PM—1:35 PM

A89 881.1 Allosteric Functional Switch in Poliovirus 3C Protease. Y.M. Chan and D.D. Bohr. Penn State


A94 881.6 Nuclear Magnetic Resonance Studies of Polyglutamine’s Misfolded Conformation in the Aggregated State. P.C.A. van der Wel. Univ. of Pittsburgh Sch. of Med.


A96 881.8 Macromolecular Crowding Enhances the Efficiency of the Chemical Chaperone, Betaine in Inhibiting Protein Aggregation. S. Mittal and L.R. Singh. ACBR, Univ. of Delhi.


355
A100 881.12 Ca²⁺-Induced Domain-Domain and Protein-Protein Interaction in NADPH Oxidase 5 and Dual Oxidase C.C. Wei and D. Jensen. So. Illinois Univ. Edwardsville.


A103 881.15 Probing the Role of Ser-48 in the Regulation of Deinococcus radiodurans ADP Glucose Pyrophosphorylase L. Ong, A. Le-Pham, M. Mowery and C.R. Meyer. California State Univ. Fullerton.


882. PROTEIN FOLDING AND MISFOLDING

Poster

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:05 PM–1:35 PM

A105 882.1 Refolding of Denatured-Reduced Lysozyme in the Presence of Native Templates S. Kumar, S. Jayanthi and T.K.S. Kumar. Univ. of Arkansas.


A108 882.4 Towards the Quantification of the Proteostasis Capacity of a Cell D.M. Hatters, R. Wood, T. Vöpel, A. Sharma and S. Ebbinghaus. Univ. of Melbourne and Ruhr-Univ. Bochum, Germany.


A111 882.7 Molecular Regulation of G-Protein-Coupled Receptor, Lyosphosphatic Acid Receptor 1, Trafficking to the Cell Surface J. Zhao, J. Wei, R.K. Bowser and Y. Zhao. Univ. of Pittsburgh.


A113 882.9 Use of Gradient Gel Filtration to Simultaneously Exchange Buffer, Purify and Refold Denatured Proteins S. Chaudhry, M. Burnett and O. Odunuga. Stephen F. Austin State Univ.


A115 882.11 Engineering Compartmentalized Optogenetic Protein Misfolding Stress Sensors C.L. Moore, S. Santiago, N.B. Lu and M. Shoulders. MIT.


A117 882.13 Expression and Purification of Wild Type and Variant Ribonuclease Inhibitor Proteins S.M. Prophet, A.W. Uebersohn, G.W. Dods and K.A. Dickson. Lawrence Univ., WI and UCSF.


A119 882.15 Transient Expression of Intrinsically Disordered Proteins Fuels the Emergence of Adaptive Protein-Based Heritable Traits D. Jarosz. Stanford Univ. Sch. of Med.

883. PROTEIN SYNTHESIS AND TURNOVER II

(Poster Session I scheduled on Sunday)

Poster

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:05 PM–1:35 PM

A120 883.1 Analysis of Mutations in the Conserved C-Terminal Diglycine of SUMO Protein in Tetrahymena thermophila R. Louer, J.D. Forney and A.M. Nasir. Purdue Univ.


A123 883.4 The FP Domains of PI31 and Fbxo7 Have the Same Protein Fold but Very Different Modes of Protein–Protein Interaction J. Shang, X. Huang and Z. Du. Southern Illinois Univ. Carbondale.

A124 883.5 Phosphorylation Regulates SLIMB-PERIOD Interactions and Protein Degradation A.J. Contreras, Y. Li, C. Tabuloc and J. Chiu. Univ. of California, Davis.

A125 883.6 Ubiquitination Catalyzed by the Ubiquitin Conjugating Enzyme, Ubch7 Inhibits the Degradation of Proteasome Substrates E.A. Whitcomb and A. Taylor. USDA at Tufts Univ.


884. CELL SYSTEMS AND METABOLISM

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIB HALLS A & B

Presentation time: 12:55 PM–2:25 PM

A135 884.2 Atp10c Heterozygous Mice Represent a Genetic Model of Insulin Resistance Associated with Diet-Induced Obesity and Altered Glucose Uptake via Both Insulin-Dependent and Independent Pathways S.E. Hurst, L. Amelse, L. Zhao and M. Dhar. South Col. Sch. of Pharm.; Col. of Vet. Med., Univ. of Tennessee and Univ. of Tennessee, Knoxville.
A136 884.3 Distinct Pathways of Vincristine Induced Cell Death in Primary Acute Lymphoblastic Leukemia Cells A. Rath, W.N. Hittelman and T.C. Chambers. Univ. of Arkansas for Med. Sci. and MD Anderson Cancer Ctr.
A137 884.4 The Effects and Angiogenic Features of Adrenomedullin in Obese Rats M. Yurekli and A.A. Culum. Inonu Univ., Turkey.
A138 884.5 Ursolic Acid Mediated Inhibition of Human Prostate Cancer Cell Growth In Vitro Involves Alterations in Cell Cycle Related Protein Expression R. Hurta, J. Kim, A. Catalli and C. Neto. Univ. of Prince Edward Island; NRC Canada, Charlottetown and Univ. of Massachusetts Dartmouth.
A139 884.6 NuSAP Governs Centrosome Oscillation by Regulating Kif22 Generated Polar Ejection Force C. Li and Y-C. Liou. Natl. Univ. of Singapore.
A140 884.7 NuSAP Stabilizes Kinetochore Microtubules by Attenuating MCAK Depolymerization C. Li and Y-C. Liou. Natl. Univ. of Singapore.
A141 884.8 TGF-β and Wnt Crosstalk Require SMAD 3 for Msi1 Induction in Colon A.R. Wolfe, F. Blanco, E. Spears, D. Dixon and K. Neufeld. Univ. of Kansas and Univ. of Kansas Med. Ctr.

A159 884.26 Gcn5-Like Protein 1 Regulates Unfolded Protein Response and Hepatic Glucose Production L. Wang, I. Scott, K. Han and M. Sack. NHLBI, NIH and Univ. of Pittsburgh.

A160 884.27 Examination of Metabolism and Cellular Health in a Saccharomyces cerevisiae Model for TPI Deficiency K.M. Squires, C. Barnes, K. Koziarz, I. Fischer, A. Lellock and S. Hrizo. Slippery Rock Univ.

A161 884.28 Differential Effect of High Fat Diet on Male Energy on Intake, Hormones, Cellularity and Morphology of Tissue A. Miller, S. Chakraborty, N. Dong, A. Adhikary and T.R. Chakraborty. Adelphi Univ.; Cross Island Lab., Mineola and New York City Col. of Technol./CUNY.

A162 884.29 Hepatic Metabolism of 3-Hydroxypropionate, a Byproduct in Propionic Acidemia K.A. Wilson, Y. Han, J. Koshy, H. Brunengraber, G.P. Tochtrop and G. Zhang. Case Western Reserve Univ.


A164 884.31 Investigation of Nocardio sp. metabolic, Structural, Biochemical Properties, and Its Potential Role in the Sulfur Cycle K.K. Lachmaya and E. Odurann. Roger Williams Univ.


A169 884.36 Altered ATP Extrusion and Mitochondrial Calcium Transients in Aged Mice A. del Campo, I. Contreras, Y. Utreras and E. Jaimevich. Univ. of Chile.

A170 884.37 Regulation of Betaine Homocysteine Methyltransferase by 3’5’-Adenosine Bisphosphate O. Dorosheva and B. Spiegelberg. Rider Univ., NJ.


A172 884.39 Characterization of Aldolase and Transaldolase Activities in Acidobacterium capsulatum H. Wall, P. Trujillo, A. Broad and L. Sommerville. Fort Lewis Col., CO.

A173 884.40 Chemical Dissection of the Cell Cycle: Identification of Novel Compounds for Dissecting the Mechanisms of Cell Division and Developing Cancer Therapies J. Torres and S. Senese. UCLA.

A174 884.41 The Mid1 and Mid2 Ubiquitin Ligases Associate with Atrin and Regulate Atrin Levels during Cytokinesis to Promote Proper Cell Abscission J. Torres and A. Ghoklar. UCLA.


A182 884.49 Determination of Methods to Separate and Analyze Small and Large Chain Isoprenoids from Mycobacterium tuberculosis A.R. Guthrie and F.M. Mann. Winona State Univ.

A183 884.50 Optimization of a Copper Sulfate Method to Quantify Hemoglobin for Use in Underdeveloped Countries M.S. Stumpf and T. Randolph. Saint Louis Univ.


A185 884.52 MTND1 Mutation Causes Dysfunction of Lactate Turnover by Metabolic Shift from Anabolism to Catabolism in hiPSC-Derived Hepatocytes Y-M. Han, I. Im, J-H. Choi and H. Yoo. KAIST, Daejeon and Asan Med. Ctr. Children’s Hosp., Univ. of Ulsan Col. of Med., South Korea.


A187 884.54 Glycoprotein Labeling with Click Chemistry Z. Wu, X. Huang, A. Burton and K. Swift. Biotechnie, MN and Biotechnie, Bristol, U.K.

A188 884.55 Mutational Analysis of the Cell Division Inhibitor MinC C.J. LaBreck and J.L. Camberg. Univ. of Rhode Island.


A193 884.60 IRBIT Is a Novel Regulator of Ribonucleotide Reductase in Higher Eukaryotes M. Dasso and A. Arnaoutov. NICHD, NIH.


A200 884.67 Hypothetical Protein Synw_0921 and Copper Response in Synechococcus sp. WH8102 A. Gnann, A. George Thompson and M. McEvoy. Univ. of Arizona.


885. LIPID METABOLISM AND DISEASES

Poster
TUES: 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:55 PM–2:25 PM


A203 885.2 Using Yeast to Develop Anti-Tumor Therapeutic Agents That Cause Liponecrotic Death of Cancer Cells by Remodeling Lipid Metabolism V. Titorenko, A. Arlia-Ciommio, A. Leonov and A. Piano. Concordia Univ., Canada.

A204 885.3 Hepatic Carboxylesterase 1 Is Essential for Both Normal and Farnesoid X Receptor-Controlled Lipid Homeostasis J. Xu, Y. Li and Y. Xu. Northeast Ohio Med. Univ.

A205 885.4 Atorvastatin Induces Hepatic Nqo1 Expression by Regulating Geranylgeranylation of Rho Protein W. Zhang, Y. Chen, Y. Duan and J. Han. Nankai Univ., China.


A207 885.6 NEFAs Activate the Oxidative Stress-Mediated NF-κB Signaling Pathway to Induce Inflammatory Response in Calf Hepatocytes X. Li, G. Liu and X. Shi. Jilin Univ., China.


A215 885.14 Novel Regulatory Mechanism in Pancreatic 
A216 885.15 Abiation of Perilipin 1 Alters Whole Body 
Glucose Homeostasis J.-H. Sohn, Y.K. Lee, J.S. Han and J.B. 
A217 885.16 The Effects of Cinnamon Extract on 3T3-
L1 Pre-adipocyte Differentiation and Cell Size A. Stockert, 
D. Kinder, E. Freeh, S. Newstead and A. Aulthouse. Ohio 
Northern Univ.
A218 885.17 Macrophage Very Low Density Lipoprotein 
Receptor Regulates Adipose Tissue Inflammation in Obesity 
A219 885.18 Silibinin Protects Hepatocytes from Lipotoxicity 
by Inducing AMPK Phosphorylation and miRNA130a 
Expression I. Barbagallo, G. Li Volti, L. Vanella, A. Zappalà, 
F. Galvano and F. Salomone. Univ. of Catania and Hosp. of 
Acireale, Italy.
A220 885.19 Sphingosine 1 Phosphate Synthesis Controls 
the Preservation of Epithelial Barrier during MDCK Cell 
Differentiation B.J. Santacreu, N.B. Sterin de Speziale and 
N.O. Favale. Fac. of Pharm. and Biochem., Univ. of 
Buenos Aires.
A221 885.20 Importance of the Sphingolipid Metabolism 
in the Acquisition of Final MDCK Differentiation L.G. Pescio, 
N.O. Favale and N.B. Sterin de Speziale. Fac. of Pharm. and 
Biochem., Univ. of Buenos Aires.
A222 885.21 Alcohol Induces Angiopoietin Like-3 in the 
Liver: Implications for Alcohol-Induced Hypertriglyceridemia P. 
Sadana, J. Burke, A. Jogasuria, A. Darvesh, W. Geldenhuys, 
A223 885.22 Glycerol-3-Phosphate Generation in Liver of 
Mice with Non-alcoholic Fatty Liver Disease Treated with 
Momordica charantia B.S.O. Lemos, M.A.R. Garófalo, I.C. 
Kettelhut and M.E.S.M. Santos. Univ. of São João Del Rei 
and Ribeirão Preto Med. Sch., Univ. of São Paulo.
A224 885.23 Metabolism of 4-Hydroxynonenal in Rat 
Organs in Response to Ethanol Feeding Z. Jin, I. Tsai, X. Sun, 
G. Tochtrop and G. Zhang. Case Western Reserve Univ.
A225 885.24 ATGL-Catalyzed Lipolysis Regulates SIRT1 
to Control PGC-1α/PPAR-α Signaling A. Sathyanarayan, S.A. 
Khan, M.T. Mashek and D.G. Mashek. Univ. of Minnesota.
A226 885.25 Targeting Plasmodium falciparum 
Phosphatidolamine Methyltransferase for Malaria Therapy 
C. Ben Mamoun and V. Kumar. Yale Univ.
A227 885.26 The Association of Lipoprotein Lipase 
and Phosphatidylinositol 3-Kinase with Macrophage Lipid 
Accumulation E.R. Courage, M.N. Fitzpatrick, R.F. Elliott, Y. 
A228 885.27 Monolysocardiolipin/Cardiolipin Ratio of Intact 
Leukocytes as Novel Tool for the Screening of Barth Syndrome 
A. Corcelli, R. Angelini, S. Lobasso, A. Bowron and C.G. 
Steward. Univ. of Bari Aldo Moro; Univ. Hosp. Bristol and 
Bristol Royal Hosp. for Children.

886. PROTEIN-LIPID INTERACTIONS AND LIPID 
BINDING PROTEINS

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, 
EXHIBIT HALLS A & B

Presentation time: 12:55 PM–2:25 PM
A229 886.1 Investigating Membrane Binding Properties of 
Marburg and Ebola Virus Matrix Protein - VP40 K.J. Wijesinghe 
and R.V. Stahelin. Univ. of Notre Dame and IU Sch. of Med.- 
South Bend.
A230 886.2 Hsp70 Associates with Lipid Membranes 
as Part of the Extracellular Export Mechanism A. De Maio, 
V. Lopez, G. Armijo, D.M. Cauvi and N. Arispe. UCSD and 
Uniformed Svcs. Univ. of Hlth. Sci.
A231 886.3 Functional Studies of Ebola Virus Matrix 
Protein VP40 K. Del Vecchio, S. Soni, E. Adu-Gyamfi, E. 
Ollmann Saphire and R. Stahelin. Univ. of Notre Dame; 
Indiana Univ. Sch. of Med. and The Scripps Res. Inst.
A232 886.4 Live-Cell Imaging of Ebola Virus Matrix Protein 
of Notre Dame: The Scripps Res. Inst. and Indiana Univ. Sch. 
of Med., South Bend
A233 886.5 Intracellular Trafficking of Vitamin E by the 
α-Tocopherol Transfer Protein S. Chung, J. Atkinson, R. 
Parker and D. Manor. Case Western Reserve Univ.; Brock 
Univ., Canada and Cornell Univ.
A234 886.6 Investigating the Role of Cellular Lipid 
Recognition in Trafficking and Viral Particle Formation by 
Ebola Virus Matrix Protein VP40 K.A. Johnson and R.V. 
Stahelin. Univ. of Notre Dame and Indiana Univ. Sch. of Med., 
South Bend.
A235 886.7 Discovery of Ceramide 1-Phosphatase Binding 
Proteins C.M. Shirley and R.V. Stahelin. Univ. of Notre Dame 
and Indiana Univ. Sch. of Med., South Bend.
A236 886.8 A Pressure-Dependent Model for the 
Regulation of Lipoprotein Lipase by Apolipoprotein C-II N. 
Meyers, M. Larsson, G. Olivecrona and D.M. Small. Boston 
Univ. Sch. of Med. and Umea Univ., Sweden.
A237 886.9 Serum Amyloid A 1.1 Forms a Conformational 
Temperature Sensor at the Lipid Surface O. Gursky, M. 
Faendrich and S. Jayaraman. Boston Univ. Sch. of Med. and 
Ulm Univ., Germany.
A238 886.10 Characterization of the C-Terminal Domain of 
Human Apolipoprotein A-I via a Novel Apolipoprotein Chimera 
J.V. Horn, R.A. Ellena, J.J. Tran, V. Narayanaswami and P.M. 
Weers. California State Univ. Long Beach.
A239 886.11 Biochemical Characterization of the Interaction 
between Hsp70s and Lipids B. Kdeiss, C. McCallister and N. 
Nikolaidis. California State Univ. Fullerton.
A240 886.12 The Two Faces of Pal: Elucidating the Two 
Orientations of Pal Protein in Escherichia coli B. D’Arcy, J. 
Shaw, M. Pichichero and L.V. Michel. Sch. of Chem. and Mat. 


A243 886.15 Making the Membrane Disappear with Spontaneous Membrane Translocating Peptides W.C. Wimley, T. Fuselier and J. He. Tulane Univ. Sch. of Med.


A245 886.17 High Resolution Field Cycling NMR Relaxometry Identifies Novel Phospholipid Binding Sites on PTEN and the Akt1 PH Domain M.F. Roberts, B. Stec, C.S. Gradziel, Y. Wei and A.G. Redfield. Boston Col. and Brandeis Univ.


A249 886.21 Withdrawn.


A254 887.2 Effects of Metal Ions on Proanthocyanidin-Protein Interactions M.A. Geibel and A.E. Hagerman. Miami Univ.

A255 887.3 Mechanism of Plant Growth Promoting Activity of *Burkholderia* Species V.R. Thakkar and R.R. Patel. BRD Sch. of Biosci., Sardar Patel Univ.

A256 887.4 Histopathology for the Influence of CMV Infection on Tomato Cellular Structures M.S. Montasser and A.M. Al-Ajmy. Univ. of Kuwait.

A257 887.5 Decreasing Ruminant Methane Production through 3-Deoxyproanthocyanidin-Rich Forages R.J. Sepela and A.E. Hagerman. Miami Univ.

A258 887.6 Species-Specific Enzymatic Tolerance of Sulfide Toxicity in Plant Roots and Comparative Susceptibility between Plant and Catfish Tissue N.M. Martin, Y. Kobayashi and B.R. Maricle. Fort Hays State Univ., KS.


A261 887.9 Systems Analysis of Soybean Seed Development: Lipid Body Ontogeny J.A. Miernyk, R.S. Wilson, M.L. Johnston and J.J. Thelen. USDA, Columbia and Univ. of Missouri-Columbia.


A263 887.11 Substrate Specificity for Grape L-Ionate Dehydrogenase S. Steiner and K. McKinley. Hanover Col., IN.


A268 887.16 Cloning and Expression of Cryptochrome Proteins from Sunflower J. Vercellino and J. Dyer. Montclair State Univ.

A269 887.17 Identification and Sequence Comparison of Carbohydrate Oxidase Enzyme from Plant Sources K.R. Daggett and J.A. Maki. The Col. of St. Scholastica, MN.

A270 887.18 The Activation of Dopa Activity in Polyphenol Oxidases by Catechol J.M. McCluskey, M.B. LeMon and P.J. Stein. The Col. of St. Scholastica, MN.


A272 887.20 Isopentenyl Diphosphate Inhibition of Thiamin Diphosphate Enzymes, Especially Deoxyxylulose 5-Phosphate Synthase T.D. Sharkey, A. Banerjee and L.E. Cheaney. Michigan State Univ.


A275 887.23 Engineering High Value Oil Production into Biofuel Crops J. Chappell, C. Kempinski and Z. Jiang. Univ. of Kentucky.


A280 887.28 The Impact of Gene Duplication and Divergence on the Formation of Protein Complexes A.B. Mehrtash, L.D. Holappa and E.M. Kramer. St. Mary’s Univ., TX and Harvard Univ.


A282 887.30 Characterization of Suspected Cyclic di-GMP Metabolizing Genes in Streptomyces scabies B.N. Bickers and J.A. Bennett. Otterbein Univ., OH.

888. MOLECULAR MECHANISMS OF INFECTION AND IMMUNITY III

(Poster Session I scheduled on Sunday; Poster Session II scheduled on Monday)

Poster

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:05 PM–1:35 PM


888.3 Genetic Engineering of the Murine Melanoma D5.1G4 to Express a Model Antigen for Evaluation of Anti-tumor CD8+ T Cell Responses S.L. Woodall and K.M. Hargadon. Hampden-Sydney Col., VA.

888.4 A Cell-Permeable Phosphoantigen Prodrug Increases Response of Vγ9Vδ2 T Cells to Target Cells A.M. Kilcollins, J. Li, C-H.C. Hsiao and A.J. Wiemer. Univ. of Connecticut.


888.6 Acetylation of Human Mitochondrial Citrate Carrier Modulates Citrate/Malate Exchange to Sustain NADPH Production during Macrophage Activation E.M. Palmieri, A. Menga, V. Porcelli, C.L. Pierr, D.C. Hooper and A. Castegna. Univ. of Bari Aldo Moro, Italy and Thomas Jefferson Univ.


888.8 Lectin-Like Domain of Tumor Endothelial Marker 1 Regulates Lipopolysaccharide-Induced Inflammatory Response G-Y. Shi, C-Y. Ma and H-L. Wu. Natl. Cheng Kung Univ., Taiwan.

888.9 The Role of RING Dimerization in the E3 Ubiquitin Ligase Activity of the TRIM5α Retroviral Restriction Factor D. Ivanov, Z. Yudina, R. Johnson, N. Biris, A.B. Taylor, P.J. Hart and B. Demeler. Univ. of Texas Hlth. Ctr. at San Antonio.
A293 888.11 Exploring Suppressor of IKK Epsilon’s Interaction with Cytoskeletal Proteins J.B. Knoblauch, K.F. Lawrence and J.K. Bell. Univ. of San Diego and Virginia Commonwealth Univ.
A298 888.16 Investigate Cigarette Smoke-Induced Interleukin-1β Release and the Underlying Mechanism in Ovarian Cancer Cells W.K. Sumanasekera, K. Truong and T. Beckmann. Sullivan Univ. Col. of Pharm., KY.
A300 888.18 Neurotensin and Corticotropin-Releasing Hormone Synergistically Activate Human Microglia through Mammalian Target of Rapamycin Complex 1 A.B. Patel, I. Tsilioni and T.C. Theoharides. Tufts Univ. Sch. of Med.
A302 888.20 A Novel Mouse Model to Study Chronic-Progressive Multiple Sclerosis F. Gomez-Rivera, I. Raphael and T.G. Forsthuber. Univ. of Puerto Rico at Ponce and Univ. of Texas at San Antonio.
A303 888.21 Drosophila FoxO Promotes Viral Immunity through the RNAi Pathway M. Spellberg and M. Marr. Brandeis Univ.
A305 888.23 Dysregulated Cell Signaling in LPS-Stimulated Macrophages by Myeloid-Specific Conditional Knock Out of the Catalytic Subunit of Protein Phosphatase 2A L. Sun, T. Pham and T.P. Shanley. Univ. of Michigan Med. Sch.

889. SIGNALING IN DISEASE AND THERAPY
Poster

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:05 PM–1:35 PM

A316 889.9 Study of the Structural Composition and Stability of the Critical Interfacial α-Helix in the Negative Regulator Domain of the Notch Receptor W.S. Ma and A. Wo. Wellesley Col.
890. EXTRACELLULAR MATRICES IN HEALTH AND DISEASE II

(Poster Session I scheduled on Monday)

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:55 PM—2:25 PM


A322 890.2 Structure-to-Function Characterization of Saccharomyces cerevisiae STT3 E.M. Ngwa and M. Aebi. ETH Zurich.


A325 890.5 Role of CD47 in Triple Negative Breast Cancer S. Kaur, S.P. Singh, A.G. Elkahloun, W.Wu, T. Song, A. Arora and D.D. Roberts. NCI, NIH; NIAID, NIH and NHGRI, NIH.


A327 890.7 Molecular Characterization and Structural Determination of Nod2, an Innate Immune Receptor M.L. Lauro, C. Grimes and B. Bahnson. Univ. of Delaware.

A328 890.8 Hypo-glycosylated Human Follicle-Stimulating Hormone (hFSH(R)) Exhibits Higher Endocytic Rate for Recombinant hFSH Receptor than Fully-Glycosylated hFSH (hFSH(H)) R.E. Elsaed, V.Y. Butnev, V.Y. Butnev, J.V. May and G.R. Bousfield. Wichita State Univ.


A332 890.12 The Role of the C1q Domain of Zebratinol Otolin 1a in Otolith Morphogenesis O. Das, D. Kadosh, A. Balogun, L. Heng, Y-J. Kang and R. Kollmar. SUNY Downstate Med. Ctr.; Univ. at Buffalo and Univ. of Illinois at Urbana-Champaign.


891. ENZYME ALLSORTERY AND DYNAMICS

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:55 PM—2:25 PM


A343 891.5 Multiwavelength Collisional Quenching to Study Ligand Protein Interactions in Glutamate Dehydrogenase C. Li and J.E. Bell. Univ. of Richmond.
A344 891.6  The Linkage between Folding Cooperativity and Allostery: Glutamate Dehydrogenase A. Tata, G. Kingdom and J.E. Bell. Univ. of Richmond.

A345 891.7  Effect of Allosteric Mutations on Conformational Equilibrium of DHFR M. Okondo, S. Cho and N. Goodey. Montclair State Univ.


A347 891.9  Probing the Mechanism by which Proteins Designed De Novo Function in Living Cells K. Diganantonio and M. Hecht. Princeton Univ.


892. ENZYMOLOGY OF TRANSLATION

Poster

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:55 PM–2:25 PM

A352 892.1  Spermmer specifically inhibits the RRF (ribosome recycling factor) reaction: In its presence, RRF still stimulates protein synthesis N. Iwakura, A. Giuliiodori, A. Kaji and H. Kaji. Jefferson Med. Col.: Sch. of Biosci. and Biotechnol., Univ. of Camerino, Italy and Univ. of Pennsylvania Sch. of Med.

A353 892.2  Use of the Photoconvertible Fluorescent Protein Dendra2 to Track the Fate of Existing and Newly Synthesized Nrf2 under Basal and Induced Conditions in Single Live Cells A. Flores and I. Arinze. Meharry Med. Col.

A354 892.3  Refolding and Purification of Unmodified Human Elongation Factor 2 for the In Vitro Reconstitution of Diphthamide Synthesis N.B. Patel, J.R. Ostovitz and J.E. Weldon. Towson Univ., MD.


A357 892.6  E. coli 16S Ribosomal RNA Degradation Pathways during Starvation and by Quality Control S. Sulthana, G.N. Basturea, S. Tofajjen Hossain and M.P. Deutscher. Univ. of Miami.

A358 892.7  Methionine Misacylation of tRNA on CaMKII in Response to ER Stress X. Wang and T. Pan. Univ. of Chicago.

A359 892.8  Discriminating Nature of the B. anthracis Aspartyl-tRNA Synthetases J. Erskine and K. Sheppard. Skidmore Col., NY.

A360 892.9  Dual Routes for B. subtilis Asparaginyl-tRNA Formation H. Raff and K. Sheppard. Skidmore Col., NY.

A361 892.10  Two Distinct Routes for Asparaginyl-tRNA Formation in B. halodurans N. Nair and K. Sheppard. Skidmore Col., NY.

A362 892.11  Discriminating Nature of the Aspartyl-tRNA Synthetases from Three Human Pathogens M. Islam and K. Sheppard. Skidmore Col., NY.

A363 892.12  Expanding the Genetic Code with Pyroglutamate I. Da Silva and K. Sheppard. Skidmore Col., NY.

A364 892.13  eYFP Reporter System for Pyroglutamate Incorporation M. Calzini, S. Zhen and K. Sheppard. Skidmore Col., NY.


A367 892.16  The Role of RNA Binding by eIF4G in mRNA Recruitment to the Human Ribosome N. Villa and C. Fraser. Univ. of California, Davis.

893. G PROTEINS AND PROTEIN KINASES

Poster

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:55 PM–2:25 PM


A372 893.5  Structural Analysis of the Constitutive Activity of the Chemokine Receptor CCR1 C.T. Gilliland, I. Kufareva and T.M. Handel. Skaggs Sch. of Pharm. and Pharmaceut. Sci., UCSD.


A375 893.8 Lysoosphatidic Acid Signaling Stimulates Cell Growth and Migration through Na⁺-H⁺ Exchanger Isoform 1 Phosphorylation at Multiple Locations W. Swanson, K. Nordby, J.J. Provost and M.A. Wallert. Minnesota State Univ. Moorhead and Univ. of San Diego.


A378 893.11 C-Terminal Mutants of Gα12 Selectively Impaired in Ric-8a Binding A.W. Schmitt, D.N. Brawley and T.E. Meigs. Univ. of North Carolina Asheville.


A384 893.17 A Protein Kinase C-Activated Motility Signaling Pathway in Human Breast Cells S.A. Rotenberg, X. Zhao and S. De. Queens Col. of CUNY and The Grad. Ctr., CUNY.

A385 893.18 Regulation of Ras1 through Phosphorylation in Saccharomyces cerevisiae X. Jin, S.J. Starke, Y. Li and Y. Wang. Saint Louis Univ.


A388 893.21 RGS6 Negatively Regulates D1 Dopamine Receptor-Mediated Inhibition of Tyrosine Hydroxylase Ser40 Phosphorylation in Nigrostriatal Dopamine Neurons Z. Luo, B. Maitly, J. Yang, S. Alberico, K. Narayanan and R.A. Fisher. Univ. of Iowa.


A390 893.23 Probing the Ras-Membrane Interaction from a Structural Biology Perspective J.A. Parker and C. Mattos. Northeastern Univ.

A391 893.24 A Yeast Two-Hybrid Screen with the Cnidarian G alpha Subunit from the Coral Acropora palmata D.S. Witherow, P. Kumar, B. Mason and V.Z. Slepek. Univ. of Tampa; James Cook Univ., Australia and Univ. of Miami Miller Sch. of Med.

A392 893.25 Impairments in Rho GTPase Signaling Mediate the Inhibitory Effects of Metformin on the Survival and Migration of Neuroblastoma Cells A. Kumar, N. Al-Sammarraie, D. DiPette and U.S. Singh. Univ. of South Carolina Sch. of Med.

894. PROTEASE: STRUCTURE AND REGULATION

Poster  

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B  

Presentation time: 12:55 PM–2:25 PM


A395 894.3 Affinity Switch during Proteasome Core Particle Maturation that Regulates Pba1–Pba2 and Regulatory Particle Association P. Wani, M. Rowland, A. Ondracek, E. Deeds and J. Roelofs. Kansas State Univ. and Univ. of Kansas.


A397 894.5 Drug Design Investigation of both Traditional FDA Drugs and POSS to Serve as an Effective HIV Protease Inhibitor I. Anastasakis, B. Miller III, J. Tshishimbi and C. Parish. Univ. of Richmond.


A399 894.7 Caspase1 Has Transcriptional Regulatory Effects Independent from That Mediated by IL1β and IL18 – Our Microarray and Meta-analysis of Six Other Microarray Datasets Y. Li, Y. Yin, H. Wang and X-f. Yang. Temple Univ. Sch. of Med.
A400 894.8 Investigating the Flap Dynamics of HIV-1 Protease D.R. Stevens, B.R. Miller, R. Stansbury, G. Springsted, C. Phelan and C.A. Parish. Univ. of Richmond.


A402 894.10 Substrate Polyubiquitination Increases the Unfolding Ability of the 26S Proteasome D.A. Kraut, K. Bard, N. Nassif and G. Chirico. Villanova Univ.


895. STRUCTURAL ENZYMEOLOGY

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:55 PM–2:25 PM


A408 895.2 Structural Basis for Bacterial Quorum Sensing-Mediated Oxalogenesis J. Oh, E. Goo, I. Hwang and S. Rhee. Seoul Natl. Univ.


A411 895.5 The X-Ray Crystallographic Structure of Endoxylanase Xyn10C from Xanthomonas axonopodis at 1.6 Å Angstrom Resolution A.B. Murray. Winthrop Univ., SC.


A417 895.11 Expression, Purification and Crystallization of the Xanthonal Avirulence Protein, AvrBs1.1, and Its Target in Capsicum annuum, the Transcription Factor WRKY-1 J.M. Tesney and J.C. Hurlbert. Winthrop Univ.


896. SECOND MESSENGERS

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:05 PM–1:35 PM

A423 896.1 Characterization of a NosP Signal Transduction Pathway in Shewanella oneidensis L-M. Nisbett, B. Bacon and E. Boon. Stony Brook Univ.


A425 896.3 Cross-talk between Autophagy and Mitophagy Regulates Shear-induced Nitric Oxide Production in Endothelial Cells L. Bharath, T. Ruan, A. Sargsyan, R. Goodrich, T. Forostyan, R. Mueller, Y. Han, P.V.A. Babu, S. Boudina, T. Graham and J.D. Symons. Univ. of Utah.

A426 896.4 Regional Variation of Calcium Transients within Neonatal Cardiomyocyte C. Alvarez. San Diego State Univ.

A427 896.5 Cyclic AMP/PKA-Mediated Regulation of Mitochondria and Branched-Chain Amino Acid Metabolism in S49 Lymphoma Cells A. Wilderman, Y. Guo, A. Divakaruni, G. Perkins, L. Zhang, A. Murphy, S.S. Taylor and P.A. Insel. UCSD.
A428 896.6 Role of Store Operated Calcium Entry in Ellagic Acid Induced Cytotoxicity in Jurkat T Cells S. Kaul, M. Baker, D. Thomas and D. Bose. Western New England Univ. Col. of Pharm. and Thomas J. Long Sch. of Pharm. and Hlth. Sci., CA.


A430 896.8 Role of Calcium in Regulating the Production of Urine by the Malpighian Tubules of Rhodnius prolixus N. Hassan, P. Giono, G. Katselis and J. Ianowski. Univ. of Saskatchewan.

A431 896.9 Putative Role of Glutathione S-Transferases as Mediators of Cell Growth, Development, and Differentiation in the Eukaryotic Model Organism, Dictyostelium discoideum M. Garige and E. Walters. Howard Univ.

A432 896.10 Pim1 Is a Novel Kinase That Phosphorylates eNOS at Ser-633 and Enhances Angiogenesis in Diabetic Mice M. Chen, B. Yi and J. Sun. Thomas Jefferson Univ.

A433 896.11 Rad Phosphorylation via β-Adrenergic Signaling Modulates Its Association with the Calcium Channel C.N. Withers, J. Satin and D.A. Andres. Univ. of Kentucky.


A437 896.15 Notch and Hypoxia Inducible Factor Cooperate in the Generation of Hemangioblast and in Sprouting Angiogenesis A. Calderon and D.L. Ramirez-Bergeron. Case Western Reserve Univ. Sch. of Med.

A448 897.10 Targeted Delivery of Cytochrome c-Based Nanoparticles Coated with a Poly(lactic-co-glycolic Acid)-Poly(ethylene Glycol)-Folate Conjugate to HeLa Cells M. Morales-Cruz, A. Cruz, T. Gonzalez-Robles, C. Figueroa, L. Munoz, A. Molina and K. Griebenow. Univ. of Puerto Rico, Rio Piedras Campus.

A449 897.12 Structure/Function Characterization of S100B Inhibitors at Sites 2/3 within Malignant Melanoma M.C. Cavalier, P.T. Wilder, T.H. Charpentier and D.J. Weber. Univ. of Maryland Sch. of Med. and Thomas Jefferson Univ.

A450 897.13 Doxorubicin-Coupled MNPs-Fe₃O₄ with Electromagnetic Radiation Improve the Effectiveness of Doxorubicin on the T47D Human Ductal Breast Tumor Cell Line S.A. Alobaid, S. Sinha and M.J. Rossi. Brigham Young Univ.


A453 897.16 A Quantum Mechanical Study of Tautomeric Triggers of Bergman Cyclization A.K. Jaini and C. Parish. Univ. of Richmond.


A456 897.19 Host Directed Autoantibodies that Fuel Tumor Progression A. Jain, P.M. Abadir and N.S. Fedarko. Johns Hopkins Univ.

A457 897.20 A Trojan Horse for Light-Triggered Delivery of Toxic Iron to Cancer Cells E.N. Boice and D.M. Kurtz, Jr. Univ. of Texas at San Antonio.


A463 897.26 Calcium-Dependent Chemotherapeutic Mechanisms of Resveratrol J. Kenealey. Brigham Young Univ.


A465 897.28 Antibody Directed Enzyme Prodrug Therapy: Discovery of Novel Genes, Isolation of Novel Gene Variants and Production of Long Acting Drugs for Efficient Cancer Treatment S.K. Goda. Anti-doping Lab., Doha, Qatar.


A467 897.30 Extraction of Anti-cancer Water Soluble Compounds from Rumex crispus M. Bhandari and B.A. Clack. Stephen F. Austin State Univ.


898. GLOBAL NUTRITION: DIETS AND FOODS

Poster

(Sponsored by: Global Nutrition Council)

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM—1:45 PM (I); 1:45 PM—2:45 PM (II)


C5 I 898.5 Maternal Knowledge and Attitudes in Relation to Complementary Feeding Initiation in Rural Bangladesh. A. Owais, D.G. Kleinbaum, P.S. Suchdev, A.S.G. Faruque, S. Das and A.D. Stein. Emory Univ. and ICCDR,B, Bangladesh.


C8 II 898.8 Artisanal Solar Drying of Nutritional and Medicinal Plants of High Cultural Value in Rural Panama. I. Bermudez, T. van der Have, O.L. Bermudez and J. dePerez. Technol. Univ. Panama; Catholic Univ. of Leuven and Tufts Univ. Sch. of Med.


C11 I 898.11 Milk Composition Produced from Malawi Zebu-Friesian Crosses and Susceptibility to Environmental Stress. J.C. Allen and S.R. Neba. North Carolina State Univ.


C30 II 898.30 Perspectives of Food Availability, Healthfulness and Modernity among Adolescents in India N. Shaikh, A. Maxfield, U. Ramakrishnan, S. Patil and S. Cunningham. Emory Univ. and BLDE Univ., India.

C31 I 898.31 Water Source and Distance Is Associated with Hygiene Behaviors in Karamoja, Uganda S.B. Ickes and L.E. Pugh. Col. of William and Mary, VA.


C37 II 898.37 Traditional Foods Made from Sorghum and Millet in Mali Have Slower Gastric Emptying than Pasta, Potatoes, and Rice F. Cisse, D.P. Erickson, A.R. Opekun, B.L. Nichols and B.R. Hamaker. Purdue Univ.; Inst. of Rural Econ. of Mali, Barmako and Baylor Col. of Med.


C42 II 898.42 Food Frequency Consumption and Food-Related Habits among Brazilian Students N. Woolley. UCLA.


C46 II 898.46 Linking National Data on Food Availability and Child Nutrition Outcomes in 45 Less Developed Countries to Identify Appropriate Amounts of Foods in National Food Supply: J.E. Arsenault and R.J. Hijmans. Univ. of California, Davis.


899. GLOBAL NUTRITION: COGNITIVE

Poster

(Sponsored by: Global Nutrition Council)

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)


C52 I 899.2 The Long-Term Impact of Water and Sanitation on Childhood Cognition N.R. Wulan, E.R. Smith, E.L. Prado, M.S. Apriatni, H. Muadz and A. Shankar. Summit Inst. of Develop., Indonesia; Harvard Univ.; Univ. of California, Davis and Matarang Univ., Indonesia.


900. NUTRITION ACROSS THE LIFESPAN: NUTRITION, NEUROBIOLOGY, MOOD AND BEHAVIOR

Poster

(Sponsored by: Medical Nutrition Council)

(Cosponsored by: Aging and Chronic Disease RIS, Obesity RIS and Nutrition Translation RIS)

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)


C61 II 900.6 Relationship of 6-n-Propylthiouracil Taste Sensitivity to Alcohol and Caffeine Intakes among Ethnically Diverse College Students S.E. Choi. Queens Col., NY.


C63 II 900.8 Disordered Eating Behaviors and Nutritional Issues in Children with Fetal Alcohol Spectrum Disorders S. Smith, R. Amos-Krooah, L. Chin, B. Fink and J. Wozniak. Univ. Wisconsin-Madison and Univ. of Minnesota.

C64 I 900.9 Effect of Almond Consumption on the Neural Response in the Left Insula R.D. Sayer, J. Dhillon, G.G. Tamer, Jr., W.W. Campbell and R.D. Mattes. Purdue Univ.


C67 II 900.12 Predicting Iron-Dependent Changes in Energy Expenditure from Changes in EEG Power as a Function of Cognitive Workload L.R. Tate, M.J. Wenger, L.E. Murray-Kolb and J.D. Haas. Univ. of Oklahoma; Cornell Univ. and Penn State.


901. NUTRITION ACROSS THE LIFESPAN: EARLY CHILDHOOD NUTRITION

Poster
TUESDAYS 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM—1:45 PM (I); 1:45 PM—2:45 PM (II)

C78 I 901.1 Mothers’ Child-Feeding Practices Are Associated with Children’s Sugar-Sweetened Beverage Intake S. Park, R. Li and L. Birch. Ctrs. for Dis. Control and Prevent. and Univ. of Georgia.


C81 II 901.4 Production and Quality Evaluation of Weaning Food from Soybean (Glycine max), Maize (Zea mays) and Sweet Potato (Ipomoea batatas) Blends I.O. Banjoko, O.T. Oyelola, R.O. Fakorede and O.O. Banjoko. Yaba Col. of Technol., Nigeria.


C84 I 901.7 Total Energy Expenditure of Infants with Congenital Heart Disease Post-surgical Intervention J.C. Trabulsi, S.Y. Irving, M.A. Papas, C. Hollowell, C. Ravishankar, V.A. Stallings and B. Medoff-Cooper. Univ. of Delaware; Univ. of Pennsylvania Sch. of Nursing and Children’s Hosp. of Philadelphia.


C87 II 901.10 Aluminum and Other Metal Content of Oral Pediatric Medications R.A. Yokel, S.E. Seger and J.M. Unrnie. Univ. of Kentucky.


C89 II 901.12 Plasma 3-epi-25-Hydroxyvitamin D3 in Very Low Birth Weight Preterm Infants in Canada during the First Five Weeks after Birth M. Djekic-Ivantovic, G. Jones, M. Kaufmann and H. Weiler. Univ. of Belgrade; Sch. of Dietetics and Human Nutr., McGill Univ. and Queen’s Univ., Canada.

C91 II 901.14 Exploratory Study of Factors Associated with the Healthfulness of Parental Responses to In-Store Child Food Purchasing Requests E. Calloway, N. Ranjit, C. Roberts-Gray, S. Sweitzer, K. McInnis, M.J. Romo-Palafax and M. Briley. Gretchen Swanson Ctr. for Nutr., Omaha; Univ. of Texas at Austin; Third Coast Res., Galveston and Univ. of Texas Sch. of Publ. Hlth., Austin.


C93 II 901.16 Usual Intakes of Nutrients among Children 2-5 Years in Hays County, Texas Reveal Nutritional Risk B.R. Markides, S.H. Crixell, B.J. Friedman, L. Biediger-Friedman and H. Kotwal. Texas State Univ.


C95 II 901.18 Malnutrition and Early Feeding Practices among 0-2 Year-Old Children in Lebanon N. Hwalla, L. Nasreddine, F. Naja and R. Zghieb. Amer. Univ. of Beirut.


C99 II 901.22 Diet Quality Improves for Parents and Children When Almonds Are Incorporated into Their Diets: A Randomized Crossover Study A.M. Burns, M.A. Zitt, C.C. Rowe, W.J. Dahl and B. Langkamp-Henken. Univ. of Florida.


C105 II 901.28 Quality of the Early Infant Diet across the Eight Low and Middle Income Countries from the Malnutrition and Enteric Disease Study R. Chandyo, B.L. Maciel, R. Ambikapathi, C. Patil, A. Bose, C. Amour, M. Islam, A. Turab, P. Besson and L. Caulfield. Univ. of Bergen; State Univ. of Ceará, Brazil; FIC, NIH; Univ. of Illinois at Chicago; Christian Med. Col. & Hosp., Vellore, India; Haydrom Lutheran Hosp., Tanzania; ICDDR,B. Bangladesh; Aga Khan Univ., Pakistan; Univ. of Venda, South Africa and Johns Hopkins Sch. of Publ. Hlth.

C106 II 901.29 Design and Implementation of a Sensory-Based Exotic Fruit and Vegetable Nutrition Education Classroom Intervention Targeting Pre-K through First Grade Children in Southern Illinois S. Kannan. Southern Illinois Univ. Carbondale.

902. COMMUNITY AND PUBLIC HEALTH NUTRITION:
HEALTH DISPARITIES AND PROMOTING HEALTH IN DIVERSE POPULATIONS

Poster (Sponsored by: Community and Public Health Nutrition RIS)

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)


C109 II 902.3 Health-Related Risk Factors of Chinese Students in South Korea J. Kim, R. Gao and J. Lee. Seoul Women's Univ. and Kyonggi Univ., South Korea.


C111 II 902.5 Validation of a Sun Exposure Questionnaire among Subjects with Type 2 Diabetes Residing in South Florida F.G. Huffman, J.C. Exebio, G.G. Zarini, J.A. Vaccaro and S. Ajabshir. Florida Intl. Univ.


C113 II 902.7 Anthropometric Measures of Obesity and Insulin Resistance in Turkish Patients with Type 2 Diabetes S. Sukhram, C. Moore, R. Raiola and F. Huffman. Col. of Staten Island and Florida Intl. Univ.
C114  I 902.8 Relationship between Intake of Phyloquinone (Vitamin K1) with Blood Lipids and Biomarkers of Glucose Homeostasis in Haitian Americans and African Americans with and without Type 2 Diabetes R. Basiri, G.G. Zarini, J.A. Vaccaro, J.C. Exebio and F.G. Huffman. Florida State Univ. and Florida Intl. Univ.


C122  I 902.16 Mixed Methods Assessment of Health Tracking Use by Diverse, Urban Youth S. Schaefer and C. Carter Ching. Univ. of California, Davis.


C125  II 902.19 Food System Disparities J.D. Burke. Univ. of New Hampshire.


C127  II 902.21 Young Children's Screen Time and Obesity in the U.S. Affiliated Pacific: The Children's Healthy Living Program F. Li, C. Nigg, K. McGlone, M. Fialkowski, L. Wilkins, Y. Paulino, T. Belyeu-Camacho, A. Bersamin, A. Areta and R. Novotny. Univ. of Hawaii; Univ. of Guam; Northern Marianas Col.; Univ. of Alaska and American Samoa Community Col.

C128  I 902.22 Determinants of Young Children's Sleep Duration in the U.S. Affiliated Pacific: The Children's Healthy Living Program F. Li, R. Novotny, M. Fialkowski, L. Wilkins, K. McGlone, M. Uchima, R. Nelson, A. Bersamin and A. Vargo. Univ. of Hawaii; Univ. of Guam; Northern Marianas Col.; Univ. of Alaska and American Samoa Community Col.

C129  II 902.23 An Intervention to Co-package Zinc and Oral Rehydration Salts Improves Health Provider Prescription and Maternal Adherence to WHO-Recommended Diarrhea Treatment in Western Guatemala M.L. Roche, R. Garcia Meza and M. Vossenaar. Micronutrient Initiative, Canada and CeSSIAM, Guatemala.


C136  I 902.30 Health Disaster in Least Developed Countries because of Low Nutrition and Affordability A.G. Rizwan. Univ. of Punjab, Pakistan.
903. COMMUNITY AND PUBLIC HEALTH NUTRITION: FOOD ENVIRONMENT

Poster

(Sponsored by: Community and Public Health Nutrition RIS)

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM—1:45 PM (I); 1:45 PM—2:45 PM (II)

C137 II 903.1 Using the Delphi Technique to Establish a Nutrient Profiling System for Pre-packed Food N. Ma, G. Zhang and C. Wang. COFCO Corp., Beijing.


C140 I 903.4 Heavy Metal Contents in Celosia argentea, Lycopersicon esculentum and Aloe Vera Planted on Contaminated Abule Egba Dump Soil O. Oyelola, I. Banjoko, I. Ajiboshin, A. Ajayi and I. Babatunde. Fed. Univ. of Technol.; Yaba Col. of Technol. and Univ. of Lagos, Nigeria.


C142 I 903.6 Customers’ Perception of Restaurant Food Environment by Regions in Korea J-S. Choe, Y. Kim, Y. Park and S. Lee. Agrifood Resources, RDA, South Korea and Seoul Natl. Univ.


C144 I 903.8 Research of the Head Family Food’s Conception Perceived by the Different Age Groups H-K. Chung and M-H. Kim. Hoseo Univ., South Korea.


C146 I 903.10 The Impact of Crunchy Wednesdays on Happy Meal Fruit Orders in McDonald’s Restaurants in France from 2009 to 2013 A. Drewnowski, S. Michels and D. Leroy. Univ. of Washington and Protéines, Paris.

C147 II 903.11 Effects of MSG on Neuronal Cells M. Dopler-Nelson, E. Merlino, S. Lee and T. Shea. Univ. of Massachusetts Lowell.


C151 II 903.15 Fast Food Environment among Low-Income Communities in the Pacific Region: Findings from the Children’s Healthy Living Program E. Dela Cruz-Talburt, F. Li, M. Fialkowski, L. Wilkens, R. Leon-Guerrero, J. Kim, A. Bersamin and R. Novotny. Univ. of Hawaii; Univ. of Guam; Northern Marianas Col. and Univ. of Alaska.


C158 I 903.22 Decision to Frequent a Restaurant Type Is Influenced by Individual Characteristics of Wisconsin Residents S. Bhutani, D.A. Schoeller, M. Walsh and C. McWilliams. Univ. of Wisconsin-Madison.

C159 II 903.23 Neighborhood Social Cohesion Is Associated with Food Security Status in Households with and without Children in the U.S. L.H. Martini, M.P. Burke and N. Younginer. Univ. of South Carolina and Food Res. and Action Ctr., Washington, DC.

TUESDAY NUTRITION

904. COMMUNITY AND PUBLIC HEALTH NUTRITION: POLICY AND SYSTEMS APPROACHES IN COMMUNITY AND PUBLIC HEALTH NUTRITION

Poster
(Sponsored by: Community and Public Health Nutrition RIS)
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)


C164 II 904.4 Living Alone Showed Significant Associations with Dietary Quality and Health among South Korean Adults S-Y. Nam and S-K. Lee. Inha Univ., South Korea.

C165 II 904.5 Who Reads Nutrition Labels? Label Usage by College Students in a Dining Hall Setting M.J. Christoph and B.D. Ellison. Univ. of Illinois at Urbana-Champaign.


905. NUTRITIONAL EPIDEMIOLOGY: INNOVATION AND VALIDATION OF DIETARY ASSESSMENT TOOLS AND THEIR APPLICATIONS

Poster
(Sponsored by: Nutritional Epidemiology RIS)
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)


C172 II 905.4 Estimates of the Quality of Complementary Feeding among Vietnamese 6-23 Month Olds Varied by How Commercial Baby Cereals Were Classified in 24-Hour Recalls T.T. Nguyen and N. Hajeebhoy. FHI 360, Viet Nam.

C173 II 905.5 Investigating Bioaccessibility of Methylmercury from Seafood Commonly Consumed in North America M. Siedlikowski, M. Bradley and N. Basu. Sch. of Dietetics and Human Nutr., McGill.

C174 II 905.6 Associations of Dietary Carbohydrate Quality with Daily Intestinal Glucose Patterns in Community-Dwelling Individuals: A Pilot Study M.A. McCrory and A.F. Amankwaah. Georgia State Univ. and Purdue Univ.


C176 II 905.8 Development and Validation of a Dietary Portfolio Score for Use among Hypercholesterolemic Individuals V.H. Jayalath, C. Ireland, D. Faulkner, A. Mirrahimi, K. Srichaikul, R. de Souza, J. Sievenpiper, C. Kendall, P. Couture, B. Lamarche, P. Jones, J. Frolich and D. Jenkins. St. Michael’s Hosp., Toronto; McMaster Univ., Ont.; Univ. of Toronto; Univ. Laval, Que.; Univ. of Manitoba and Univ. of British Columbia.

C177 II 905.9 Preliminary Characterization of Pediatric Oncology Patients Comparing Traditional Nutrition Assessment to Subjective Global Nutrition Assessment K. Watts, D. Gonzales-Pacheco, S. Abraham and C. Wong. Univ. of New Mexico.

906. NUTRITIONAL EPIDEMIOLOGY: NUTRITION AND CHRONIC DISEASE EPIDEMIOLOGY

Poster

(Sponsored by: Nutritional Epidemiology RIS)

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)

C180 I 906.1 Withdrawn.
C195 II 906.16 Withdrawn.
C196 I 906.17 Diet Quality and Acculturation are Associated with Metabolic Syndrome in Females for South Asian Americans S.A. Khan and R.T. Jackson. Univ. of Maryland College Park.


C207 II 906.28 Coffee Consumption and Risk of Lung Cancer in the NIH-AARP Diet and Health Study K.A. Guertin, N.D. Freedman, E. Lottfeldt, B.I. Graubard, N.E. Caporaso and R. Sinha. NCI, NIH.


C209 II 906.30 Associations between Folate Biomarker Levels and Renal Function among Adults in the U.S. J. Hu, W. Juan and N.R. Sahyoun. Univ. of Maryland College Park and FDA.


C211 II 906.32 Does Secondhand Smoke Exposure Moderate the Association between Food Insecurity and Asthma among Children? M. Ding and C.A. Zizza. Auburn Univ.

C212 I 906.33 Plasma Nutrient Biomarkers are Associated with Waist-to-Height Ratio in Youth with Type 1 Diabetes: SEARCH for Diabetes in Youth Nutrition Ancillary Study S. Wang, J. Crandell, S. Couch, I. King, J. Lawrence, D. Dabelea, A. Lamichhane, G. Kim, R. Bell, S. Zhu and E. Mayer-Davis. Zhejiang Univ., China; Univ. of North Carolina at Chapel Hill; Univ. of Cincinnati; Univ. of New Mexico; Kaiser Permanente Southern California; Univ. of Colorado Denver; Seattle Children's Hosp. and Wake Forest Sch. of Med.

907. NUTRITION EDUCATION AND TEACHING: NUTRITION EDUCATION IN MEDICAL AND OTHER PROFESSIONAL SCHOOLS

Poster

(Sponsored by: Nutrition Education in Professional Schools Subcommittee)

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM—1:45 PM (I); 1:45 PM—2:45 PM (II)


908. NUTRITION EDUCATION AND TEACHING: NUTRITION EDUCATION FOR PRACTICING CLINICIANS

Poster

(Sponsored by: Nutrition Education in Professional Schools Subcommittee)

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM—1:45 PM (I); 1:45 PM—2:45 PM (II)

C216 I 908.1 Dietetics Professionals Recognize Beans as Different Carbohydrate for Adults with Type 2 Diabetes D.M. Winham and A.M. Hutchins. Iowa State Univ. and Univ. of Colorado Colorado Springs.

909. NUTRITION EDUCATION AND TEACHING: INNOVATIONS IN UNDERGRADUATE, GRADUATE AND MEDICAL NUTRITION EDUCATION

Poster

(Sponsored by: Nutrition Education in Professional Schools Subcommittee)

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)

C218 I 909.1 Use of Online Collaborative Case Study Modules for Obesity Education W. Bignell and J.G. Fischer. Univ. of Georgia.


C222 I 909.5 Interactive Learning Assessment: Simulating Professional Nutrition Practice E. Yakes Jimenez, V. Svihla, T. Castillo, T. McKay and A. Cantarero. Univ. of New Mexico

910. NUTRITION EDUCATION AND BEHAVIOR SCIENCE: EVIDENCE-BASED NUTRITION EDUCATION: DEVELOPMENT, TESTING, AND EVALUATION

Poster

(Sponsored by: Nutrition Education and Behavior Science RIS)

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)


C224 I 910.2 Skin Carotenoids Correlate with Plasma Carotenoids and Reported Intake in 4th-Grade Children L.M. Nguyen, R.E. Scherr, I.V. Ermakov, W. Gellermann, J.D. Linnell, C.L. Keen, S. Miyamoto, F.M. Steinberg, H.M. Young and S. Zidenberg-Cherr. Univ. of California, Davis; Univ. of Utah and Sch. of Nursing, Univ. of California, Davis, Sacramento.

C225 II 910.3 Obesity and Nutrition Education, Integrating Structural Factors, Increases Knowledge and Applied Learning A. McEligot, E. Gonzalez, L. Chandler, S. Bell, M. Haro Isidro, N. Tran, L. Pillazar and L. Kaiser. California State Univ. Fullerton and Univ. of California, Davis.

C226 I 910.4 Teachers Don’t Know What They Don’t Know about Nutrition: A Case for Improving Professional Development J.D. Linnell, M.H. Smith, K.M. Brian, R.E. Scherr and S. Zidenberg-Cherr. Univ. of California, Davis.


C229 II 910.7 Can Nutrition Education Support Academic Achievement? Evidence Supporting Integration of Food and Nutrition Education into Intermediate Curricula V. Carraway-Stage, K.M. Kolasa, S.R. Diaz and M.W. Duffrin. East Carolina Univ.; Brody Sch. of Med. and Diaz Consulting LLC, WV.


C234 I 910.12 Survey of Knowledge and Attitudes toward Nutrition in a Class of First Year Medical Students Prior to Exposure to a Nutrition Curriculum M. Markell. SUNY Downstate Med. Ctr.

911. NUTRITION EDUCATION AND BEHAVIOR CHANGE

**Poster**

(Sponsored by: Nutrition Education and Behavior Science RIS)

**Presentation time:** 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)

**C236 I 911.1** One-Year and Two-Year Effects of the USDA Fresh Fruit and Vegetable Program (FFVP) on Students’ Fruit and Vegetable Intake Frequency and Variety


**C237 II 911.2** Association of Video Game Playing and Lifestyle Behaviors in Adults

C. Cemelli, J. Burris and K. Woolf. NYU Steinhardt.

**C238 I 911.3** Supporting Autonomy in a Nutrition Intervention for Overweight/Obese Children Using Self-Determination Theory with Motivational Interviewing

A.M. Maia and A. White. Univ. of Maine.

**C239 II 911.4** Examine the Knowledge of Nutrition and Physical Activity among 3rd-Graders Using Two Different Teaching Methods in Elementary School


**C240 I 911.5** Self-Efficacy Is Associated with Healthy Eating Behaviors for Fifth Grade Students

E. Hall, W. Chai, W. Koszewski and J.A. Albrecht. Univ. of Nebraska-Lincoln and Univ. of North Dakota.

**C241 II 911.6** Camp NERF: Feasibility, Acceptability, and Potential Efficacy of a Theory-Based Nutrition Education Recreation and Fitness Program Aimed at Preventing Unhealthy Weight Gain in Disadvantaged Children during Summer Months

L.C. Hopkins, A. Rose and C. Gunther. The Ohio State Univ.

**C242 I 911.7** Evaluating Effectiveness of the Arkansas Expanded Food and Nutrition Education Program on Changing Food Resource Management and Nutrition Practice Outcomes


**C243 II 911.8** Interest of Kuwait University Students in Nutrition Information

F. El-Sabban. Kuwait Univ.

**C244 I 911.9** Knowledge and Behaviors Related to Current Diet and Physical Activity Guidelines and Recommendations among African American Parents of Young Children

A. Jazwa, J. Kareem, F. Keong, D. Henderson and J. Welsh. Children’s Healthcare of Atlanta; Emory Univ. and Georgia State Univ.

**C245 II 911.10** Dietary Habit and Nutrition Knowledge of High School Students in Incheon Area

Y.A. Kim and A. Ko. Inha Univ. and Grad. Sch. of Educ., Inha Univ.

**C246 I 911.11** HomeStyles: Using Behavior Change Theory to Promote Preschooler and Family Health


**C247 II 911.12** A Study of Factors Related with Beverage Intake of High School Girls in Incheon Area, Korea


**C248 I 911.13** “Choose Your Plate”: A Nutritional Education Curriculum Intended to Create Young Health Advocates


**C249 II 911.14** Drinking Water upon Awakening, a Habit Related to a Higher Total Fluid Intake and Water Intake


**C250 I 911.15** Maintenance Hemodialysis Lifestyle Intervention Trial: A Pilot and Feasibility Study

J.L. Barnes, A. Harris and K.R. Wilund. Univ. of Illinois, Urbana.

**C251 II 911.16** Evaluation of Dietary Behavior and Nutrient Intake in Patients with Tourette Syndrome


912. MEDICAL NUTRITION COUNCIL: INTERVENTIONS FOR THE TREATMENT AND PREVENTION OF NUTRITION-RELATED DISEASES

**Poster**

(Sponsored by: Medical Nutrition Council)

**Presentation time:** 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)

**C252 I 912.1** Personalized Prevention of Colorectal Cancer Trial


**C253 II 912.2** Cranberries and Urinary Tract Infection: Assessment of the Evidence


**C254 I 912.3** Effect of Almonds on Glucoregulation and CVD Risk Factors in Patients with Type 2 Diabetes


**C255 II 912.4** Bombesin Preserves the Exocrine Pancreas and Gut-Islet Axis during Parenteral Nutrition


**C256 I 912.5** Long-Term Effect of a Pulse-Based Diet and Exercise Training Intervention on Body Composition and Dietary Intake in Women with Polycystic Ovarian Syndrome


**C257 II 912.6** Identification of Risk Factors and Clinical Measures for Pediatric Eating Disorder Patients

C258 I 912.7 Use of Specific Carbohydrate Diet in a Severe Case of Ulcerative Colitis M. Nirmalraj and B. Khandalavala. Univ. of Nebraska Med. Ctr.

C259 II 912.8 Replacing Dietary Meat with Fish Increases Plasma Glucose without Affecting Protein Glycation N.A. Raad, D.S. Rehder, N. Sharma, B.L. Beezhold, C.S. Johnston, C. Borges and K. Sweazea. Arizona State Univ. and Benedictine Univ., IL.


C261 II 912.10 Effect of Iodine Supplementation on Iodine Status, Thyroid Function, Body Composition, and Resting Metabolic Rate in Women P. Panth, N.M. DiMarco and L. Potterbog. Texas Woman’s Univ., Denton and Texas Woman’s Univ., Dallas.

C262 I 912.11 Therapeutic Use of Ground Flaxseeds for Type 2 Diabetes K. Rickles, C.S. Johnston and K.L. Sweazea. Sch. of Nutr. and Hlth. Promotion, Arizona State Univ.


913. MEDICAL NUTRITION COUNCIL: NUTRITION AND INFLAMMATION

Poster
(Sponsored by: Medical Nutrition Council)

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)


C265 II 913.2 The Impact of a Polyphenol Treatment on TNF-α-Induced Cytokine Release from C2C12 Myotubes K.E. Earl, A. Lightfoot and A. McArdle. Univ. of Liverpool.


C268 I 913.5 Loss of Lipoprotein Lipase Expression Reduces Circulating Monocytes and Decreases Bone Marrow Myeloid Proliferation C.L. Chang, A.J. Murphy, I.J. Goldberg and R.J. Deckelbaum. Columbia Univ. and NYU.

C269 II 913.6 Induction of Autophagy by Zinc during Acute Ethanol Intoxication in Mice J.P. Liuzzi and S. Nambiar. Florida Intl. Univ.

C270 I 913.7 Plasma IL-6 Levels are Elevated during the Third Trimester in Alcohol-Exposed Women with Children Diagnosed with Fetal Alcohol Spectrum Disorder Compared to Alcohol-Exposed Women with Normally Developed Children K.D. Sowell, J.Y. Uriu-Adams, J.L. Graham, C.D. Chambers, C.D. Coles, L. Yevtushok, N. Zyvak-Zakutnya, W. Wertelecki and C.L. Keen. Univ. of California, Davis; UCSD; Emory Univ.; Rivne Oblast Med. Diagnostic Ctr. and OMNI-Net, Ukraine; Khmelnytsky Perinatal Hosp. and OMNI-Net, Ukraine and Univ. of South Alabama.


C272 I 913.9 Inflammatory Markers and Nutrients Intake in Korean Patients with Non-alcoholic Fatty Liver S.K. Kim, H.S. Lim and Y.H. Kwon. Soonchunhyang Univ. and Soonchunhyang Univ. Bucheon Hosp., South Korea.

C273 II 913.10 Activation of TLR2 or TLR4 Induces ER Stress Leading to Inflammasome-Mediated IL-1β Secretion in Monocytes D. Hwang, R. Snodgrass and S. Huang. USDA, Davis and Univ. of California, Davis.

C274 I 913.11 Immunomodulatory Effects of Methyl 2-[Propanamide-2′-Methoxycarbonyl]-Benzoate in Macrophages: Involvement of Akt/P13k/NF-κB Signaling Pathway H-W. Lee and I. Kwon. Sch. of Pharm., Sungkyunkwan Univ., South Korea.


C276 I 913.13 High-Calorie Diet Induced Elevation in Calprotectin and Lipocalin-2 Correlates with Changes in Gut Bacteria and Their Metabolites in a Porcine Model S. Radhakrishnan, L. Reddivari, H. Yu, R. Knight and J. Vanamala. Penn State ; Zhejiang Univ. of Technol., China and Univ. of Colorado Boulder.


914. MEDICAL NUTRITION COUNCIL: NUTRITION AND THE MICROBIOME

Poster

(Sponsored by: Medical Nutrition Council)

TUES. 7:30 AM – BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM – 1:45 PM (I); 1:45 PM – 2:45 PM (II)


C282 I 914.4 Changes in the Intestinal Microbiota and Host Inflammatory Gene Expression in Pigs Fed a Flavanol-Enriched Cocoa Powder. S. Jang, J. Sun, P. Chen, S. Lakshman, A. Molokin, J. Harlmy, J.F. Urban, Jr., C.D. Davis and G. Solano-Aguilar. USDA, Beltsville and ODS, NIH.


C284 I 914.6 Withdrawn.

915. NUTRIENT-GENE INTERACTIONS: CHRONIC DISEASE

Poster

(Sponsored by: Nutrient-Gene Interactions RIS)

TUES. 7:30 AM – BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM – 1:45 PM (I); 1:45 PM – 2:45 PM (II)


916. NUTRIENT-GENE INTERACTIONS: EXERCISE

Poster

(Sponsored by: Nutrient-Gene Interactions RIS)

TUES. 7:30 AM – BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM – 1:45 PM (I); 1:45 PM – 2:45 PM (II)


917. NUTRIENT-GENE INTERACTIONS: BIOACTIVES

Poster

(Sponsored by: Nutrient-Gene Interactions RIS)

TUES. 7:30 AM – BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM – 1:45 PM (I); 1:45 PM – 2:45 PM (II)


C293 I 917.2 R-α-Lipoic Acid Potentiates Fasting-Induced Transcription and Secretion of Hepatic Fibroblast Growth Factor21. R. Moreau, M. Xia and A. Pashaj. Univ. of Nebraska-Lincoln.

C295 I 917.4 Nobiletin Attenuates High Glucose-Induced Lipid Accumulation in HepG2 Hepatocytes through Activation of AMP-Activated Protein Kinase-Dependent Signaling Y. Park, T. Yuk and J. Lee. Chungbuk Natl. Univ., South Korea.

C296 II 917.5 Cardiometabolic Profiles and Gene Expression following Fish Oil Supplementation: Is There a Role for FADS Genotypes? K. Roke, M. Zulyniak, C. Gerling, J. Whitfield, L. Spriet and D.M. Mutch. Univ. of Guelph, Canada.


II 918. DIET AND CANCER: CLINICAL AND HUMAN STUDIES

Poster
(Sponsored by: Diet and Cancer RIS)
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B
Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)

C298 II 918.1 Effect of a Low Glycemic Index Diet on Prostate-Specific Antigen S. Nishi, C. Ireland, L. Augustin, V. Jayalath, C. Kendall and D. Jenkins. Univ. of Toronto and St. Michael’s Hosp.


C301 I 918.4 Serum Cytokines Are Associated with Colorectal Polyp Number and Type in Adult Males S.S. Comstock, D. Xu, K. Hortos, B. Kovan, S. McCaskey, D.R. Pathak and J.I. Fenton. Michigan State Univ. and Tri-County Gastroenterol., PC, Clinton Twp., MI.

C302 II 918.5 Prostate Specific Antigen Ratio Is Negatively Associated with Blood Cadmium Concentration and Smoking Status T.M. Vance and O.K. Chun. Univ. of Connecticut.


II 919. VITAMINS AND MINERALS: B VITAMINS AND ONE-CARBON METABOLISM

Poster
(Sponsored by: Vitamins and Minerals RIS)
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B
Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)


C311 I 919.2 Cystathionine Gamma-Lyase Inhibition in Primary Human Hepatocytes Affects the Production of Hydrogen Sulfide Biomarkers through the Transsulfuration Pathway B. DeRatt, R. da Silva, M. Ralat, R.L. Jacobs and J.F. Gregory. Univ. of Florida and Univ. of Alberta.

C312 II 919.3 Supplementation of Aging Transgenic Mice with Folic Acid and Folinic Acid Alleviates Alzheimer’s Disease-Associated Neuronal Amyloid-β Pathological Progression and Genomic Expression Profiles T-F. Chen, H-C. Hsu, M-J. Chiu and R-F.S. Huang. Natl. Taiwan Univ. Hosp.; Fu-Jen Univ., Taiwan and Natl. Taiwan Univ.


C316 II 919.7 Metabolic Alterations in Mice Lacking a Major Folate Catabolic Enzyme B. Fekry, N.J. Krupenko and S.A. Krupenko. Univ. of North Carolina at Chapel Hill, Kannapolis.


C318 II 919.9 Withdrawn.


C322 II 919.13 Maternal Folic Acid/Vitamin B12 Imbalance Programs Hepatic Gene Expression in Female Offspring A. Aljaadi, R. Aleliunas, M. Giler, T. Green, J. Miller and A. Devlin. Univ. of British Columbia and Rutgers Univ.


C330 II 919.21 Vitamin B6 Status and Its Relationship with Polyunsaturated Fatty Acid Concentrations during Pregnancy M.F. Mujica-Coopman, D.R. Farias, A. Brito, L.H. Allen, G. Kac and Y. Lamers. Univ. of British Columbia; Univ. of Chile; Fed. Univ. of Rio de Janeiro and USDA, Univ. of California, Davis.


920. VITAMINS AND MINERALS: MICRONUTRIENT INTERVENTIONS

Poster

(Sponsored by: Vitamins and Minerals RIS)

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)

C333 I 920.1 A Decrease in γ-Tocopherol Associates with Impaired Muscle Performance after Anterior Cruciate Ligament Surgery T. Barker, V.T. Henriksen, V.E. Rogers and R.H. Trawick. Intermountain Healthcare, Murray, UT.

C334 II 920.2 Effects of Iron Supplementation on DNA Damage of Lymphocytes in Rats A. Ma, L. He, Y. Sun, J. Cai, H. Zhang, Y. Wang and D. Wu. Med. Col. of Qingdao Univ., China and USDA at Tufts Univ.

C335 I 920.3 Effect of High-Dose Vitamin D on Antimicrobial Peptides in Ventilator-Dependent Critically Ill Patients J.L. Jones, J.A. Alvarez, J.E. Han, L. Hao, E.D. Chiang, L. Brown, V. Tangpricha, G.S. Martin and T.R. Ziegler. Emory Univ.


C337 I 920.5 The Impact of High-Dose Vitamin D on Hemoglobin Concentrations in Critical Illness E.M. Smith, J.L. Jones, J.E. Han, J.A. Alvarez, E.D. Chiang, G.S. Martin, T.R. Ziegler and V. Tangpricha. Emory Univ.

C338 II 920.6 Withdrawn.

C339 I 920.7 Dietary-Induced Obesity Disturbs Iron Homeostasis and Alpha-Synuclein Expression in C57BL/6J Mouse Brains A. Byrd, J. Plummer, K. Eriksson and J. Han. North Carolina A&T State Univ. and Univ. of North Carolina at Greensboro.


C342 11 921.0 Low Status of Vitamin C Promotes Oxidative Stress in Healthy Adults M. Waly, Z. Al Attabi and N. Guizani. Sultan Qaboos Univ., Oman.

921. VITAMINS AND MINERALS: TRACE ELEMENT TRANSPORT AND HOMEOSTASIS IN HEALTH AND DISEASE

Poster

(Sponsored by: Vitamins and Minerals RIS)

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)

C343 11 921.1 Associations between Amniotic Fluid Minerals and Fetal Ultrasound Measurements L.M. Knipping, K.G. Koski and R.I. Cue. Sch. of Dietetics and Human Nutr., McGill Univ.


C347 11 921.5 Iron Distribution in Dietary-Induced Obese Mice Tissues J.E. Whitaker and J. Han. North Carolina A&T State Univ.


C350 11 921.8 Binding of Trivalent Chromium to Transferrin Is Sufficiently Rapid to be Physiologically Relevant J.B. Vincent, G. Deng and K. Wu. Univ. of Alabama.


922. DIETARY BIOACTIVE COMPONENTS: ANTI-OXIDANT AND ANTI-INFLAMMATORY EFFECTS OF DIETARY BIOACTIVE COMPONENTS

Poster

(Sponsored by: Dietary Bioactive Components RIS)

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)


C355 11 922.4 Effects of Chronic and Acute Grape Consumption on Gene Expression of Inflammatory Mediators in PBMC A.M. Stevens, K.A. Giebler, Q. Hu, S.A. Ford and F.M. Steinberg. Univ. of California, Davis.


C358 11 922.7 Dietary Strawberries Increase Glutathione in Obese Participants with Above Optimal Serum Lipids S. Morris, N. Betts, T.J. Lyons and A. Basu. Oklahoma State Univ. and Queen’s Univ. of Belfast.

C360 II 922.9 (-)-Epigallocatechin-3-Gallate Protects against TNF alpha and Hydrogen Peroxide-Induced Apoptosis in a Cell Culture Model of Parkinson's Disease Q. Xu, A.G. Kanthasamy and M.B. Reddy. Iowa State Univ.


C363 I 922.12 Antioxidant and Behavioral Effects of Canine Health Supplement in Dogs S.M. Talbott, N. Chevreau and W.M. Barnett. LifeVantage and LifeVantage, Sandy, UT.


C369 I 922.18 Avenanthramide-Enriched Oats Have an Anti-inflammatory Action: A Pilot Clinical Trial D.L. McKay, C-Y.O. Chen, F.W. Collins and J.B. Blumberg. USDA at Tufts Univ. and Tufts Univ. Sch. of Dent.


C374 II 922.23 Sulforaphane Reduces Inflammatory Gene Expression in Microglia from Aged Mice B.E. Townsend, J.L. Rytch and R.W. Johnson. Univ. of Illinois at Urbana-Champaign.

C375 II 922.24 Photoprotective Effects of Pistachio Antioxidants in a 3-Dimensional Human Skin Equivalent Tissue Model C-Y.O. Chen, A. Smith, J.B. Blumberg and J. Garlick. USDA at Tufts Univ. and Tufts Univ. Sch. of Derm.


C377 I 922.26 Modulatory Effects of Acanthopanax koreanum Nakai on Oxidative Stress Induced by Combination of Alcohol and High-Fat Diet in C57BL/6j Mice H-I. Kim, H-J. Jeon, M.Y. Park and O. Kwon. Ewha Womens Univ., South Korea.


C382 II 922.31 A Comparative Study of the Ability to Inhibit Digestive Enzymes by Polyphenolic Extracts Isolated from Tea, Black Legumes and Pigmented Fruits and Vegetables Y. Tan, Y. Zhang and S. Chang. Mississippi State Univ.

C383 I 922.32 Dietary Soy Protein Concentrate Suppresses Colonic Inflammation and Loss of Gut Barrier Function In Vitro and in Mice J.D. Lambert, Z.T. Bitzer, A.L. Wopperer and R.J. Elias. Penn State
923. DIETARY BIOACTIVE COMPONENTS: CARDIOVASCULAR EFFECTS OF DIETARY BIOACTIVE COMPONENTS

Poster

(Sponsored by: Dietary Bioactive Components RIS)

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)


C385 I 923.2 The Impact of Virgin Coconut and Safflower Oils on Lipids and Cytokines in Postmenopausal Women M. Harris, L. Fryda and A. Hutchins. Univ. of Colorado Colorado Springs.

C386 II 923.3 Fish Oil Supplementation May Improve Partial Thromboplastin Time in Individuals with Blood Type A C.A. Thompson-Felty, C.S. Johnston and A. Ryder. Sch. of Nutr. and Hlth. Promo., Arizona State Univ.


C388 II 923.5 Effect of Grape Consumption on Biomarkers of Endothelial and Cardiovascular Health Q. Hu, J.M. Randolph, K.A. Giebler, A.M. Stevens and F.M. Steinberg. Univ. of California, Davis.


C391 I 923.8 Effects of Watermelon Powder on Lipid Metabolism through Regulation of Gene Expression in Atherogenic Diet-Fed Rats K. Kaufman, S. Hooshmand, M. Kern, A. Figueroa and M.Y. Hong. San Diego State Univ. and Florida State Univ.

C392 II 923.9 The Change in Human Microvascular Function and Its Relationship to Plasma Epoxide Content after Short-Term Walnut Intake R.R. Holt, S.J. Yim, G.C. Shearer, C.L. Keen, D. Djurica, J.W. Newman and R.M. Hackman. Univ. of California, Davis and Penn State.


C394 II 923.11 Cranberries Modulate Postprandial Metabolism in Obese Participants with Type 2 Diabetes S. Morris, N. Betts, T. Lyons and A. Basu. Oklahoma State Univ.; Queen’s Univ. of Belfast and Univ. of Oklahoma Hlth. Sci. Ctr.
924. DIETARY BIOACTIVE COMPONENTS: DIETARY BIOACTIVE COMPONENTS OF MEDICINAL, FUNCTIONAL AND WHOLE FOODS (INCLUDING PROBIOTICS AND FERMENTED FOODS)

Poster

(Sponsored by: Dietary Bioactive Components RIS)

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)

C405 I 924.1 Phenol Loss in Heating of Extra Virgin Olive Oil Is Dependent on Temperature, Time, and Cooking Conditions M. Flynn and S. Wang. The Miriam Hosp. and Brown Univ. and Univ. of California, Davis

C406 II 924.2 Transport of MicroRNA-Containing, Milk-Donor Extracellular Vesicles by Human Colon Carcinoma Caco-2 Cells T. Wolf, S. Baier and J. Zempleni. Univ. of Nebraska-Lincoln.

C407 I 924.3 DNA Damage Inhibitory Activities, Anti-acetylcholinesterase, Anti-procine α-Amylase and Antioxidant Properties of Dolichos Lablab Bean S.W. Theuri, H.M. Habib and F.E. Mohamed. Univ. of Southern Indiana and United Arab Emirates Univ.

C408 II 924.4 NMR-Based Metabolomic Profiles of Mice Fed a High Fat Diet and Supplemented with Resistant Starch and/or Lactobacillus A. Martinic, D. Mishchuk, J. Berouei, D. Kieffer, R. Martin, M.L. Marco and C. Slupsky. Univ. of California, Davis and USDA, Davis.


C412 II 924.8 Effects of Flaxseed-Supplementation on DNA Methyltransferase and Obesity-Associated Gene Expression in Adipose Tissue from Obese Mice A. Woodard, Y. Rhee, K. Reindi and C. Hall. North Dakota State Univ.

C413 I 924.9 Raisins (Vitis vinifera L.) as a Source of Prebiotic Functional Food G. Mandalari, K. Ianson, L. Chan and A. Carughi. Univ. of Messina; Sun-Maid Growers of California, Kingsburg; SecondGenome, South San Francisco and Inst. of Food Res., Norwich, U.K.


C423 I 924.19 Pulicaria jaubertii Extract Prevents Triglyceride Deposition in 3T3-L1 Adipocytes M. Picklo, J. Rousova, A. Kubatova and G. Al-Naqeb. USDA, Grand Forks; Purdue Univ and McCain Foods Ltd.

C424 II 924.20 Effect of Sun-Dried Raisins (Vitis vinifera L.) on the In Vitro Composition of Gut Microbiota G. Mandalari, L. Chan and A. Carugh. Univ. of Messina; SecondGenome, South San Francisco and Sun-Maid Growers of California, Kingsburg.


C426 II 924.22 Whole Eggs Enhance Antioxidant Activity When Combined with Energy Dense, Cooked Breakfast Foods D.L. McKay, C-Y. Chen, H. Rasmussen and J.B. Blumberg. USDA at Tufts Univ.


C431 I 924.27 Effect of Green and Black Tea Extracts on Intestinal Microbiota and Body Composition in Mice Fed a High Fat/High Sucrose/Western Diet S.M. Henning, J. Yang, M. Hsu, D. Heber and Z. Li. UCLA.

C432 II 924.28 Xylooligosaccharide Induced Changes in Gut Microbiota in Healthy and Prediabetic Adults Z. Li, J. Yang, P. Carslon, S.M. Henning, M. Hsu, C-H. Tseng, G. Thomas, S. Finegold and D. Heber. David Geffen Sch. of Med., UCLA.

C433 I 924.29 Resistant Starch and *Lactobacillus* Feeding Improve Metabolic Functions in Diet-Induced Obese Mice J. Barouei, D. Mishchuk, D. Kieffer, A. Martinic, R. Martin, C. Slupsky and M. Marco. Univ. of California and USDA-ARS.


C435 I 924.31 Carnosic Acid Suppresses Liver Lipogenesis and Adipocytes Differentiation in Ovariectomized C57BL/6J Mice Fed High-Fat Diet M-K. Sung, Y-H. Lee and W. Lim. Soo myung Women’s Univ. and Korea Univ., South Korea.


C438 II 924.34 Comparison of Different Tea Types on Osteoblast Activity L.A. Nash and W.E. Ward. Brock Univ., Canada.


Pathology

925. EXTRACELLULAR MATRIX IN PATHOBIOLOGY

Poster

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 11:45 AM–1:45 PM


D366 925.5 Granzyme B Mediates Both Direct and Indirect Cleavage of Extracellular Matrix in Skin after Chronic Low-Dose Ultraviolet Light Irradiation L.G. Parkinson, A. Toro, H. Zhao and D.J. Granville. Univ. of British Columbia and St Paul’s Hosp., Vancouver.

D367 925.6 Obesity-Associated Inflammation Contributes to Adipose Stromal Cells Pro-fibrotic Phenotype N. Springer, M. van den Berg, B.R. Seo and C. Fischbach. Cornell Univ.

926. CANCER PATHOBIOLOGY

Poster
Tues. 7:30 AM—Boston Convention & Exhibition Center, Exhibit Halls A & B

Presentation time: 11:45 AM—1:45 PM


D372 926.4 Exploring Molecular and Morphological Relationships between Obesity and CTBP in Breast Cancer S.S. Park, D.J. Yi, G. Liang, T. Yan, S. Amba, J.S. Byun and K. Gardner. NCI, NIH.

D373 926.5 CTBP-BRCA1 Modulates Epithelial Cell Fate in Breast Cancer J.S. Byun and K. Gardner. NCI, NIH.


D375 926.7 Withdrawn.


D378 926.10 Novel Drug DCQ Induces Colon Cancer Cell Apoptosis through HIF-1α Pathway A-J.T. Sougiansis, A. Saxena, K. Kaur, S. Depaep and R. Fayad. Univ. of South Carolina.


D380 926.12 Possible Roles of CXCL17 in Angiogenesis during Tumor Progression A. Matsu, S. Morikawa and T. Ezaki. Tokyo Women's Med. Univ.


D396 927.8 Long-Term Probiotic Use Increases Bone Density in Female Mice F. Collins, D. Quach, R. Irwin, L. Schaefer, R. Britton, N. Parameswaran and L. McCabe. Michigan State Univ. and Baylor Col. of Med.


D399 927.11 Renal Effect of Trolein in a Rat Model of Fat Embolism Syndrome I. Hsiung, C. Qin, A. Poisner, B. Herndon, T. Quinn and A. Molteni. Univ. of Missouri-Kansas City and Univ. of Kansas.


Pharmacology

928. PHARMACOLOGY EDUCATION I

Poster

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:30 PM—2:30 PM


D2 928.2 Developing and Evaluating Communication Skills among Students in an Undergraduate Stem Research Program C. Bender and J. Cubeta. Univ. of Arizona.


D6 928.6 Linking Pharmacology to Clinical Therapeutics: An Interdisciplinary Laboratory Experience in Optimizing Antiplatelet Therapy Using Pharmacogenetic Data D. Calinski and D. Kisor. Manchester Univ. Col. of Pharm., IN.


D8 928.8 Second Year Medical Students’ Perceptions of Self-Directed versus Cued Learning of Pharmacotherapeutics in a High Fidelity Medical Simulation L. Gorman, C. Hernandez and A. Castiglioni. Univ. of Central Florida Col. of Med.


D10 928.10 What Do Academic Investigators Want and Get from Preclinical Collaboration with the Pharmaceutical Industry? M. Amiri and M.C. Michel. Johannes Gutenberg Univ. and Boehringer Ingelheim, Germany.
929. PAIN MECHANISMS: OPIOIDS AND OTHER

Poster
TUE. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:30 PM—2:30 PM


D12 929.2 An In Vitro and In Vivo Study of BNAP: A Novel Peripherally Selective μ-opioid Receptor Antagonist D. Williams, Y. Yuan, D. Stevens, Y. Zhang, W.L. Dewey and H.L. Akbarali. Virginia Commonwealth Univ.


D17 929.7 The Effects of RGS4 on Delta Opioid Receptor-Mediated Behaviors in Mice I.J. Dripps and E.M. Jutkiewicz. Univ. of Michigan.

D18 929.8 Comparison of Opioid Antagonist Modulation of Buprenorphine-Induced Neurochemical Changes D. Eyerman, W-I. Li, J. Cunningham, R. Dean and D. Deaver. Alkermes Inc., Waltham, MA.


930. DRUG ABUSE: PSYCHOMOTOR STIMULANTS

Poster
TUE. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:30 PM—2:30 PM


D25 930.4 Bupropione Does Not Alter the Reinforcing, Subjective or Physiological Effects of Intranasal Cocaine W.W. Stoops, B.L. Bolin, J.A. Lile and C.R. Rush. Univ. of Kentucky.

D26 930.5 Differential Effects of the Dopamine D1 Receptor Antagonist P601037 on Cocaine and Methamphetamine Self-Administration in Rhesus Monkeys W.S. John, A.H. Newman and M.A. Nader. Wake Forest Sch. of Med. and NIA, NIH, Baltimore.

D27 930.6 Pharmacology of Self-Administration of a Non-selective Sigma1,2 Receptor Agonist, 1,3-di-o-tolylguanidine, and Its Induction of Sigma1-Mediated Reinforcement in Rats T. Hiranita and J.L. Katz. NIDA, NIH, Baltimore.

D28 930.7 2-Substituted Aryltropane Cocaine Analogs Produce Atypical DAT Inhibitor Effects without Inducing Inward-Facing DAT Conformations W.C. Hong, T.A. Kopajtic, L. Xu, S. Lombozo, M.L. Trudell and J.L. Katz. NIDA, NIH, Baltimore and Univ. of New Orleans.


D30 930.9 Effects of 3,4-Methylenedioxyamphetamine and 3,4-Methylenedioxymethamphetamine on Place Conditioning in Mice B.M. Gannon, J. Tobacyk and W.E. Fantegrossi. Univ. of Arkansas for Med. Sci.

D31 930.10 More than a Replacement Therapy: Amphetamine Treatment Reverses the Behavioral and Neurochemical Consequences of Cocaine Self-Administration C.A. Siciliano, E.S. Calipari and S.R. Jones. Wake Forest Sch. of Med.


D33 930.12 Effects of Ethanol on Cocaine Self-Administration in Monkeys under a Fixed-Interval Schedule or Food-Drug Choice Procedure P.W. Czoty, M. Coller and M.A. Nader. Wake Forest Sch. of Med.
D36 930.15 Characterization of the Behavioral Effects of Lorcaserin in Rats K.M. Serafine and C.P. France. Univ. of Texas Hlth. Sci. Ctr. at San Antonio
D37 930.16 Lorcaserin (Belviq®) Reduces the Discriminatory Stimulus and Reinforcing Effects of Cocaine in Rhesus Monkeys G.T. Collins, L.R. Gerak and C.P. France. Univ. of Texas Hlth. Sci. Ctr. at San Antonio and South Texas Veterans Hlth. Care Syst.
D38 930.17 Influence of Hormones on Social Rank and Vulnerability to Cocaine Reinforcement in Female Cynomolgus Monkeys S.A. Kromrey, P.W. Czoty and M.A. Nader. Wake Forest Univ.

931. NEUROPSYCHIATRIC DISORDERS

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:30 PM–2:30 PM

D43 931.4 CNS Effects of a Novel Phosphodiesterase 4B Selective Inhibitor A-33 C. Zhang, Y. Xu and J.M. O'Donnell. Univ. at Buffalo, SUNY.
D44 931.5 Akt Signaling in Fear Memory Processing and Depression-Like Behaviors C.D. Willock and T.F. Franke. NYU Sch. of Med.
D45 931.6 RGS Regulation of Gxi2 in the Mouse Hippocampus Modulates 5-HT1A Receptor Mediated Antidepressant-Like Activity N. Senese, E. Jutkiewicz and J.G. Traylor. Univ. of Michigan.
D46 931.7 Maternal Protein Deficiency Causes Region-Specific and Sex-Dependent Changes in 5-HT1A Receptor Function in Adult Offspring W. Ye, B.J. Thompson and J.G. Hensler. Univ. of Texas Hlth. Sci. Ctr. at San Antonio and Oakland Univ. Sch. of Med., MI.
D47 931.8 Age-Dependent Effects of Nicotine or Fluoxetine on 5-HT1A Receptor Activity M. Yuan, D. Larry-Sar, M. Phan, P. Hanna and F. Leslie. Univ. of California, Irvine.
D48 931.9 The Use of Thalidomide in Treating PTSD and Co-morbid Pain in an Animal Model of PTSD P. Dib and K.M. Standifer. Univ. of Oklahoma Col. of Pharm. and Univ. of Oklahoma Col. of Med.

932. NEUROTRANSMITTER TRANSPORTERS

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:30 PM–2:30 PM

**933. NEUROTRANSMITTER RECEPTORS**

**Poster**

**TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B**

**Presentation time:** 12:30 PM—2:30 PM

**D61 933.1** Characterization of Real Time Adenosine Effluxes in the Brain of Anesthetized Rats Using Fast-Scan Cyclic Voltammetry

*E.B. Adama-Biassi, J.L. Weiner, K.D. Bonin and E.A. Budynin.* Wake Forest Sch. of Med. and Wake Forest Univ.

**D62 933.2** Pharmacological and Functional Characterization of Adenosine A1 and A2A Receptors in Caudate Nucleus of Neonatal Lambs


**D63 933.3** Gating Effects of a Novel Allosteric Modulator at GluN1/GluN2A NMDA Receptors


**D64 933.4** Immunohistochemistry of Histamine and Histamine Receptors in Ganglia and Tissues of the Bivalve Mollusc, *Crassostrea virginica*


**D65 933.5** Cholinergic Photopharmacology—Controlling Nicotinic and Muscarinic Acetylcholine Receptors with Photoswitchable Molecules


**D66 933.6** Uroguanylin Increases Frequency and Amplitude of Guinea Pig Bladder Spontaneous Contractility

*M.C. Fonteles, E.S. Pereira, C.F. Santos and N.R.F. Nascimento.* Ceara State Univ., Brazil.

**934. PROTEIN KINASES: PHARMACOLOGY AND FUNCTION**

**Poster**

**TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B**

**Presentation time:** 12:30 PM—2:30 PM

**D67 934.1** ADP Glo™: A One Platform Ideal for Assay Development, Screening and Profiling of All Phosphotransferases

*S. Goueli, K. Hsiao, G. Vidugiris, J. Hennek and H. Zegzouti.* Promega Corp., WI and Univ. of Wisconsin Sch. of Med.

**D68 934.2** G Protein-Coupled Receptor Kinase 4 Gamma-Mediated Activation of NF-κB


**D69 934.3** CXCR4 Gradient Sensing Generates Unique Signaling Kinetic Signatures of Akt and p53 Pathways, and Drives ERK to Invadopodia in Metastatic Breast Cancer Cells


**D70 934.4** Interaction of the Protein Kinase C-Related Kinases with the TPα and TPβ Isoforms of the T Prostanoid Receptor: Role in Thromboxane-Induced Neoplastic Responses


**D71 934.5** Connecting Cell Death and Survival Pathways via the ASK1/IKKβ Interaction

*L. Rusnak, M. Puckett, Y. Du and H. Fu.* Emory Univ.

**D72 934.6** Cadmium Induces Cell Cycle Progression in Triple-Negative Breast Cancer Cells through EGFR

*Z. Wei, X. Song and Z.A. Shaikh.* Univ. of Rhode Island.

**D73 934.7** Evaluation of Individual ErbB Receptor Contributions to Cellular Responses Initiated by GGF2

*B.T. Kinsella.* University Col. Dublin.

**D74 934.8** Nuclear Receptor PXR, a Novel Glucose Sensor that Regulates Hepatic Gluconeogenesis

*S. Gotoh, R. Moore and M. Negishi.* NIEHS, NIH, Research Triangle Park.

**D75 934.9** Phenobarbital Inactivates Insulin Receptor to Elicit CAR-Dependent Decrease or -Independent Increase of Hepatic Gluconeogenesis

935. GPCR INTERACTIONS AND TRAFFICKING

Poster

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:30 PM—2:30 PM

D76 935.1 A Kinetic Model of GPCRs: Analysis of G Protein Activity, Occupancy, Coupling and Receptor-State Affinity Constants. R.S.L. Stein and F.J. Ehler. Univ. of California, Irvine.

D77 935.2 Transmembrane Domains IV and V Form an Interface in Human Angiostatin II Type 1 Receptor Homomers. B. Young, M. Chedrawe, J.K. Rainey and D.J. Dupre. Dalhousie Univ., Canada.


D82 935.7 The Specificity of Gβγ Subunits Regulating Exocytosis through the Adrenergic α2a Receptor. Y.Y. Yim, K. Betke, H. McDonald, R. Gilsbach, Y. Chen, Q. Wang, L. Hein, K. Schey and H. Hamm. Vanderbilt Univ.; Univ. of Freiburg, Germany and Univ. of Alabama at Birmingham Sch. of Med.


D86 935.11 Superoxide Dismutase 1 Regulation of CXCR4-Mediated Signaling in Prostate Cancer Cells Is Dependent on Cellular Oxidative State. D.J. Dupre, J. Wertman, C. Purcell, B. Young, Y-Q. Kuang and N. Charette. Dalhousie Univ., Canada.

936. NATURAL PRODUCTS II

Poster

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:30 PM—2:30 PM


D93 936.7 Efficacy of a Novel Fenugreek Seed Extract (Furocyost) in Polycystic Ovary Syndrome in Female Subjects. D. Bagchi, A. Swaroop, P. Kumar and M. Bagchi. Univ. of Houston Col. of Pharm.; Cepham Res. Ctr., Piscataway and Chem. Resources, Punckhula, India.

D94 936.8 Efficacy of Novel Pygeum Extract (CR002) on Testosterone-Induced Benign Prostatic Hyperplasia in Male Wistar Rats. A. Swaroop, P. Kumar, D. Bagchi and M. Bagchi. Cepham Res. Ctr., Piscataway; Chem Resources, Punckhula, India and Univ. of Houston Col. of Pharm.

937. HEPATOTOXICITY/DRUG-INDUCED LIVER INJURY – MECHANISMS

Poster

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER,
EXHIBIT HALLS A & B

Presentation time: 12:30 PM–2:30 PM


D101 937.4 Role of Bone Marrow Derived Macrophages in Acetaminophen-Induced Injury C. Sun, M. Francis, M. Mandal, C.R. Gardner, J.D. Laskin and D.L. Laskin. Rutgers Univ.


D105 937.8 Acetaminophen (APAP) Hepatocyte Toxicity Is Associated with Increased Translocation of Glyceraldehyde-3-Phosphate Dehydrogenase (GAPDH) to the Nucleus N. Ciriaci, B. Vigo, J.P. Rigalli, A.D. Mottino, M.L. Ruiz and C.I. Ghanem. CONICET-Natl. Univ. of Rosario; Univ. of Buenos Aires and CONICET-Univ. of Buenos Aires.


938. NEPHROTOXICITY

Poster

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER,
EXHIBIT HALLS A & B

Presentation time: 12:30 PM–2:30 PM

D108 938.1 An Exploration of the Mechanisms Underlying Proximal Tubular Vacuolization in Mice with Low Expression of the NADPH-Cytochrome P450 Reductase L. Li, S. Liu, K.G. Dickman, S. Sells, X. Ding, C. Mei, Q-Y. Zhang and J. Gu. SUNY Poly, Albany; Wadsworth Ctr., NYS Dept. of Hlth.; Changzheng Hosp., Shanghai and Stony Brook Univ.

D109 938.2 Renal Effects of Glucose Transporter 4 in \( N^2 \)-nitro-L-Arginine/High Salt-Induced Hypertensive Rats i. Igbe, E. Omogbai and A. Oyekan. Univ. of Benin, Nigeria and Texas Southern Univ.

D110 938.3 Development of a New Model for the Induction of Chronic Kidney Disease via Intraportal Adenine Administration, and the Effect of Treatment with Gum Acacia thereon M. Al Za’abi, B.H. Ali, J. Yasin, N. Schupp and A. Nemmar. Sultan Qaboos Univ., Oman; Col. of Med. and Hlth. Sci., United Arab Emirates Univ. and Univ. of Düsseldorf.


D112 938.5 Additive Renoprotective Effects of Pioglitazone and Fenofibrate against Cisplatin-Induced Renal Failure: PPARs/TNF-\( \alpha \) Modulation M.M. El-Mas, M.W. Helmy and M.M. Helmy. Fac. of Pharm., Alexandria Univ. and Fac. of Pharm., Damanhour Univ., Egypt.

D113 938.6 Urinary KIM-1 Is a Novel Biomarker for Cisplatin-Induced Subclinical Nephrotoxicity in Oncology Patients B.A. George, X. Wen, L. Ellison, M. Joy and L. Aleksunes. Rutgers Univ., Piscataway and Univ. of Colorado, Aurora.


939. DRUG TRANSPORTERS

Poster

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:30 PM—2:30 PM


D121 939.5 Organic Anion Transporting Polyepitope 1B3 Can Form Homo- and Heterodimers Y. Zhang and B. Hagenbouch. Univ. of Kansas Med. Ctr.

D122 939.6 Protein-Protein Interactions between Organic Anion Transporting Polyepitope 1B3 and Organic Cation Transporter 1 J. Shoop, M. Ruggiero, Y. Zhang and B. Hagenbouch. Univ. of Kansas Med. Ctr.


D124 939.8 Oligomerization of Equilibrative Nucleoside Transporter 1 X. Cravetchi, G.L. Vilas and J.R. Hammond. Univ. of Alberta.


D126 939.10 Substrate-Dependent Inhibition of Human Renal Organic Cation Transporter 2 by Cimetidine J. Yin, H. Duan, N. Isoherranen and J. Wang. Univ. of Washington.


940. INTERINDIVIDUAL VARIABILITY IN DRUG METABOLISM

Poster

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:30 PM—2:30 PM


D130 940.3 CYP2A6 Genetic Variation and Variable Nicotine Metabolism among Two Distinct American Indian Tribal Groups with Different Levels of Smoking and Risk for Tobacco-Related Cancer J-A. Tanner, R. Tyndale and J. Henderson. Univ. of Toronto; Ctr. for Addiction and Ment. Hlth., Toronto and Black Hills Ctr. for American Indian Hlth., SD.


D133 940.6 Prediction of the Magnitude of Induction of CYP3A Activity during Early Human Pregnancy Z. Zhang, M. Farooq, S. Grepper and J.D. Unadkat. Univ. of Washington and Life Technol., CA.

941. HEMOSTASIS, THROMBOSIS AND INFLAMMATION

Poster

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:30 PM—2:30 PM


D136 941.3 Pharmacogenomics Studies of PAR4 Regulation in Human Platelets B. Tourdrot, J. Yu and M. Holinstat. Thomas Jefferson Univ.


D138 941.5 Plant-Derived Protein for Potential Anti-clot Application K.Y. Wang and A. Dickey. Northeastern State Univ., OK.

D139 941.6 The Effect of Pentadecapeptide BPC 157 on System Circulation and Thrombogenesis after Ligation of Vena Cava Inferior J. Vukojevic, M. Siroglavic, K. Kasnik, T. Kralj, D. Stancic, D. Drmic, S. Seiwerth and P. Sikiric. Sch. of Pharm., Univ. of California and Black Hills Ctr. for American Indian Hlth., SD.

D140 941.7 Discovery of a Novel Enhydrazinone Ester (CPE-1) that Inhibits the Degranulation of Both Mast Cells and Eosinophils C.I. Ezeamuzie and I.O. Edafiogho. Fac. of Med., Kuwait Univ. and Sch. of Pharm., Univ. of Saint Joseph, CT.
D141  941.8 Use of Vitamin A Supplementation to Enhance Neutrophil Function E. Anderson, R. Corrinden, S. Dohrmann and V. Nizet. UCSD Med. Sch.


D146  942.1 Dobutamine Stress Testing as an Early Diagnostic for Radiation-Induced Heart Disease B.J. Lieblong, S. Bhatti, R.L. Mulkey, T.W. Fletcher, N.J. Rusch and M. Reiss. Univ. of South Dakota; Penn State and Univ. of Minnesota, Minneapolis.

D147  942.2 Persistent Phenotypic Shift in Cardiac Fibroblasts following Transient ACE Inhibition L. Madhavpeddi, K.M. D’Souza, L.A. Biwer and T.M. Hale. Univ. of Arizona Col. of Med.-Phoenix.

D148  942.3 Impaired Function in Rats following Delayed Reversal of Volume Overload Heart Failure Is Rescued by Levosimendan K. Wilson, A. Guggilam, M. Galantowicz, T.A. West, M.J. Cismowski and P.A. Lucchesi. Nationwide Children’s and The Ohio State Univ.


D150  942.5 HuR Is Activated in Cardiac Hypertrophy and Regulates β,AR mRNA S. Krainy, S. Anthony and M. Tranter. Univ. of Cincinnati.

D151  942.6 Adiponectin Modulates NF-κB-Mediated Cardioprotective Pathways after Acute High-Fat Feeding L. Haar, K. Luther, J. Rubinstein, X. Ren and W.K. Jones. Loyola Univ. of Chicago, Maywood and Univ. of Cincinnati.

D152  942.7 Eicosapentaenoic Acid Prevents Intersitial Cardiac Fibrosis in a Mouse Model of Hypertensive Heart Disease J.A. Eclov, G.C. Shearer and T.D. O'Connell. Univ. of South Dakota; Penn State and Univ. of Minnesota, Minneapolis.

D153  942.8 IL-33/ST2 Signaling Is Anti-cardiac Hypertrophic and Spatially Restricted in Cardiomyocytes after Pressure Overload W. Chen and R.T. Lee. Kaohsiung Chang Gung Mem. Hosp., Taiwan; Brigham and Women’s Hosp. and Harvard Univ.


D155  942.10 Genetic Depletion of T Cell S1P Receptor 1 Exhibits Improved Cardiac Function and Less Fibrosis in Streptozotocin-Induced Type 1 Diabetic Mice C.S. Abdullah, X. Wang and Z. Jin. South Dakota State Univ.


943. VASCULAR PHARMACOLOGY – ION CHANNELS


D160  943.2 Novel Negative Gating Modulators of KCa2/3 as Pharmacological Tools for Novel Treatments A. Oliván-Viguera, M.S. Valero, R. Badorrey, H. Wulf and R. Köhler. IACS; Univ. San Jorge; CSIC – Univ. of Zaragoza; Sch. of Med., Univ. of California, Davis and ARAID, Spain.

D161  943.3 The Role of Piezo1 in Regulating Cytosolic Calcium Level in Aortic Smooth Muscle Cells in Rats J. Zhang, T. Jjong, N.L-s. Tang and X. Yao. The Chinese Univ. of Hong Kong.


D163  943.5 Regulation of Middle Meningeal Artery Diameter by ATP-Sensitive Potassium Channels A. Syed, M. Koide, J.E. Brayden and G.C. Wellman. Univ. of Vermont.

**PHARMACOLOGY**


D166 943.8 High Salt Diet Modulates Vascular Response in A<sub>s</sub>AR<sup>+/+</sup> and A<sub>s</sub>AR<sup>-/-</sup> Mice: Role of Soluble Epoxide Hydrolase, PPARγ, and K<sub>ATP</sub> Channels I. Pradhan, C. Ledent, S.J. Mustafa, C. Morisseau and M.A. Nayeem. West Virginia Univ.

### 944. DIABETES AND METABOLIC SYNDROME

**Poster**

**TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B**

**Presentation time: 12:30 PM–2:30 PM**

**D167 944.1** Clinical Biopotency of Insulin Analogues: Comparative Assessment in Different Species A. Stricker-Krongrad, C. Hanks, J. Liu and G. Bouchard. Sinclair Res. Ctr., MO.


**D169 944.3** High Fructose Consumption Exacerbates Metabolic Alterations Compared to Glucose in Female Rats G. Sangüesa, S. Shaligram, F. Akther, R. Rahimian, M. Alegret and J.C. Laguna. Sch. of Pharm., Univ. of Barcelona and Thomas J. Long Sch. of Pharm. and Hlth. Sci., Univ. of the Pacific.


**D171 944.5** Fenfuro™ Attenuates Diet-Induced Insulin Resistance and Hepatic Fat Accumulation S. Nair, Y. Hua, D. Bagchi and A. Swaroop. Col. of Hlth. Sci., Univ. of Wyoming; Univ. of Houston Col. of Pharm. and Cephem Inc., Piscataway.

**D172 944.6** Activation of Aryl Hydrocarbon Receptor Dissociates Fatty Liver from Insulin Resistance by Inducing Fibroblast Growth Factor 21 P. Lu, J. Yan, W. Garbacz and W. Xie. Univ. of Pittsburgh.


**D174 944.8** Effect of Aqueous Pericarp Extract of *Punica granatum* (APPG) on the Role of Inhibition of Advanced Glycation End Products in STZ-Induced Diabetic Retinopathy S. Putta, R. Koratana, K.N. Killari and E.K. Kilari. Andhra Univ. Col. of Pharmaceut. Sci., India.

**D175 944.9** Targeting Kir4.2 in the Treatment of Type 2 Diabetes S.V. Kharade, M.J. Guan and J.S. Denton. Vanderbilt Univ.

**D176 944.10** Ca<sup>2+</sup>-Dependent and Ceramide-Mediated Membrane Repair with Annexin V Recruitment and Aggregation in Mouse Endothelial Cells Y. Chen, M. Xia, K.M. Boini and P.-L. Li. Virginia Commonwealth Univ.


### 945. CANCER THERAPEUTICS II: NEW TARGETS

**Poster**

**TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B**

**Presentation time: 12:30 PM–2:30 PM**


**D181 945.4** Guttiferone K Exhibits Selective Cancer Cytotoxicity through ER Stress Aggravation K.K. Miu, K.W. To, H. Xu and G. Lin. Sch. of Biomed. Sci., The Chinese Univ. of Hong Kong; Sch. of Pharm., The Chinese Univ. of Hong Kong and Sch. of Pharm., Shanghai Univ. of Traditional Chinese Med.


**D185 945.8** Electrophilic Nitroalkenes Cause Degradation of NFxB RelA Protein in Triple Negative Breast Cancer Cells C-S. Woodcock, S.R. Woodcock, N.E. Davidson, Y. Huang and B.A. Freeman. Univ. of Pittsburgh and Univ. of Pittsburgh Cancer Inst.


**D187 945.10** Small-Molecule Inhibition of the Androgen Receptor-RUNX2 Interaction in Prostate Cancer W. Vuong, B.Y. Tew, G. Little, B. Frenkel and J.O. Jones. City of Hope, Duarte and Univ. of So. California.
D188 945.11 Purification, Characterization and Anti-
osteocarcinoma Study of a Novel Hemagglutinin from the
Northeast China Black Beans X. Dan, J.H. Wong, E.F. Fang
and T.B. Ng, Sch. of Biomed. Sci., The Chinese Univ. of Hong
Kong and NIA, NIH, Baltimore.
D189 945.12 Anti-tumor Effect of a Novel Soluble
Recombinant Human Endostatin: Administered as a Single
Agent or in Combination with Chemotherapy Agents in
Biopharmagen Corporation and Chinese Academy of Med. Sci.
& Peking Union Med. Col.
D190 945.13 Prostate Cancer Target Cytochrome P450
17A1 (CYP17A1); Evaluation and Comparison of Clinically-
Relevant Inhibitors E.M. Petrunak and E.E. Scott. Univ.
of Kansas.
D191 945.14 Identification of Type I Interferon as a
Novel Therapeutic Approach for Targeting Alveolar
Rhabdomyosarcoma K. Nieves, I. Henrich, R. Young, L.
Quick, K. Bledsoe and M. Chou. Univ. of Pennsylvania.
D192 945.15 Preclinical Efficacy of an Antibody-Drug
Conjugate Targeting TIM-1 in Ovarian, Renal and Lung
Tumor Models L.E. Gergel, E.M. Forsberg, C.D. Pilsmaker,
J.M. Boyer, S.M. Round, K.M. Borrelli, A.R. Sandland, N.
Therapeut. Inc., Needham, MA and Cellidx Therapeutics, Inc.,
Hampton, NJ.

D193 945.16 Preclinical Development of Recombinant
Human Tissue Inhibitor of Metalloprotease-2 as a Novel
Biologic Therapy for Cancer A. Chowdhury, B. Wei, S. Noonan
and W.G. Stetler-Stevenson. NCI, NIH and Univ. of Genoa.
D194 945.17 Antiproliferative Effect of Kolaviron, a
Biflavonoid Complex from the Seed of Garcinia kola on
Vascular Smooth Muscle Cells and A549 Cancer Cell Line A.A.
Oyagbemi, T.O. Omobowale, A.A. Adedapo, A.O. Oyekan
and M.A. Yakubu. Univ. of Ibadan, Nigeria and Southern
Texas Univ.
D195 945.18 Inhibition of Geranylglycerol Diphosphate
Synthase Induces Apoptosis of Lymphocytic Leukemia Cells
of Connecticut.
D196 945.19 Novel Strategy of Using Flaxseed Lignans as
Adjuvant Therapy against Prostate Cancer Y. Di, E. Krol and
J. Alcorn. Univ. of Saskatchewan.
D197 945.20 Geranylglycerol Diphosphate Synthase
Inhibitors Slow Tumor Growth in a Murine Model of Human
Prostate Cancer Metastasis J.E. Reilly and R.J. Hohl. Univ.
of Iowa and Penn State, Hershey.

Physiology

946. CARDIAC MUSCLE PHYSIOLOGY

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER,
EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B1 946.1 Polycystin 2 Expression Alters Calcium-
Contraction Coupling L.Y. Kuo, A.T. Kwaczala, L. Nguyen,
S.G. Campbell and B.E. Ehrlich. Yale Univ.
B2 946.2 Contractile Properties of Adult Ventricular
Myocyte in Long-Term Culture S. Liu. Univ. of Arkansas for
Med. Sci.
B3 946.3 Mitochondrial Buffering of cAMP in Adult
Cardiac Myocytes S.R. Agarwal, C. Clancy and R.D. Harvey.
Univ. of Nevada, Reno and Univ. of California, Davis.
B4 946.4 Cardiac Tissue Sensitization to the
Sympathetic Nervous System in Renal Ischemia/Reperfusion
Induced Cardiac Hypertrophy K. Panico, J.M. Alvim and M.S.
Carneiro-Ramos. Fed. Univ. of ABC, Brazil.
B5 946.5 Stress Responses Initiated in Cardiomyocytes
during Hypothermia-Induced Rewarming Shock N.S. Schaible,
Y.S. Han, L.R. Zaidan, G.M. Arteaga, T. Tveita and G.C.
Sieck. Mayo Clin.; Univ. of Tromso, Norway and Alfasal Univ.,
Saudi Arabia.

B6 946.6 dFOXO Overexpression Ameliorates Age-
Related Degeneration of Heart Performance in Drosophila B.J.
Mullins, A.C. Blice-Baum and A. Cammarato. Presbyterian
Col., SC and Johns Hopkins Sch. of Med.
B7 946.7 The Role of MiR-21 in Right Ventricular
Remodeling Secondary to Pulmonary Arterial Pressure
Overload M. Chen, W. Chang, J. Mohebal, A. Felder, R.
Laurence, Y. Yang, Y. Qiu, M. Noonan, F. Chen and R. Liao.
Brigham and Women's Hosp., Harvard Med. Sch.
B8 946.8 The Adverse Effects of Bisphenol A on Cardiac
Mechanical Function A. Chandra, D. Brooks, R. Idrees, R.
B9 946.9 Silencing of Sstriatin Alters the Association of
Caveolin-3 with the L-Type Calcium Channel in Cardiomyocytes
M. Nader, B. Khalil, D. Bakheet, N. Dzimiri and P. Kvietyts.
Alfaisal Univ. and King Faisal Spec. Hosp. and Res. Ctr.,
Saudi Arabia.
B10 946.10 Cardiac ECM Structure-Mimetic Electrospun
Scaffolds Reinvestate Healthy Cardiomyocyte Phenotype R.
Rath, J.B. Lee, T-L. Tran, S.F. Lenihan, C.L. Galindo, Y.R. Su,
T. Absi, D.B. Sawyer and H-J. Sung. Maine Med. Ctr. and
Vanderbilt Univ.
B11 946.11 Role of HSP72 in the Cardiac Remodeling
Induced by High Fat Diet L.N. Moreira, E.C. Guedes, T. Leal,
R. Mestril, E.H. Miyabara and G.P. Diniz. Univ. of Ibadan,
Sao Paulo and Loyola Univ. Chicago Stritch Sch. of Med.
B12 946.12 Calcium Signaling in the Bronchopulmonary
Dysplasia Rat Heart K. Haraldsdottir, E. Farrell, A. Sobotik
and M. Eldridge. Univ. of Wisconsin-Madison.
947. SKELETAL MUSCLE PHYSIOLOGY/PHARMACOLOGY


B14 947.2 The Effect of Doxorubicin Administration on Intramuscular BCA Concentrations in the Rat S. Fabris and D.A. MacLean. Laurentian Univ., Ontario and Northern Ontario Sch. of Med.


B20 947.8 Diaphragm of Hyperkalemia Periodic Paralysis Mouse Has No Contractility Abnormality Compared to the Robust Abnormalities in EDL and Soleus T. Ammar and J.M. Renaud. Univ. of Ottawa.


B23 947.11 Reduction of NMJ Occupancy in Dystrophic Muscle S.J.P. Pratt, S.B. Shah and R.M. Lovering. Univ. of Maryland Sch. of Med. and UCSD.


B25 947.13 Wnt3a and Wnt1 Enhance Myogenesis of C2C12 Myoblasts – Potential Mechanisms of Osteocyte to Muscle Cell Signaling J. Huang, C. Mo, L. Bowne and M. Broto. Sch. of Nursing & Hlth. Studies.Univ. of Missouri-Kansas City ; Sch. of Med., Univ. of Missouri-Kansas City and Sch. of Dent., Univ. of Missouri-Kansas City


B28 947.16 Prostaglandin E₂ Signaling via EP4 Receptor Is Important for Cell Cycle Progression and the Regulation of Reactive Oxygen Species Production in Primary Myoblast C. Mo, L. Wetmore, R. Zhao, L. Bowneal and M. Broto. Univ. of Missouri-Kansas City and William Jewell Col., MO.


B35 947.23 Evidence for a Sliding Channel Hypothesis for Muscle Excitation-Contraction Coupling S. Pitake and R. Ocha. St. John’s Univ.
948. VASCULAR SMOOTH MUSCLE II

Poster

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B43 948.3 A Novel Mechanism of ERK1/2 Regulation in Smooth Muscle Involving Acetylation of the ERK1/2 Scaffold IQGAP1 S. Vetterkind, Q.Q. Lin and K.G. Morgan. Boston Univ.

B44 948.4 Impaired Vasodilation Due to Thromboxane A2 and Reactive Oxygen Species Production in Renal Hypertensive Rat Aorta T.D-C. de Paula, B.R. Silva, M.D. Grando and L.M. Bendhack. Fac. of Pharmaceut. Sci. of Ribeirão Preto, Univ. of São Paulo.


B46 948.6 Cannabinoids-Induced Vasodilation in Rat Mesenteric Artery: Possible Mechanisms of Action E.J. Lopez-Dyck, E.A. Sanchez-Pastor and M.F. Andrade-Urzuza. Univ. of Colima and Technol. Inst. of Colima, Mexico.

B47 948.7 Chronic Hypoxia Attenuates cGMP-Dependent Protein Kinase (PKG)-Mediated Vasorelaxation by Depressing BK Potassium Channel Activity in Cerebral Arteries R.B. Thorpe and W.J. Pearce. Loma Linda Univ.

950. **BLOOD PRESSURE REGULATION I**

**Poster**

**TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B**

**Presentation time: 12:45 PM–3:00 PM**

B61 950.1 Nandrolone Decanoate Changes the Natriuretic Peptide System in Female Rats


Fed. Univ. of Espírito Santo; Univ. Vila Velha, Brazil and Fed. Univ. of Minas Gerais.

B62 950.2 Hypertension in NBCe2 Deficient Mice Caused by Enhanced ENaC Activity


Univ. of Nebraska Med. Ctr. and Max Planck Inst. for Heart and Lung Res., Bad Nauheim.

B63 950.3 Effect of Salt Diet on Beat-to-Beat Blood Pressure Dynamics in Hypertensive and Non-hypertensive Rats


American Univ. of Beirut and Univ. of Michigan.

B64 950.4 The Influence of Thermal Factors on Postexercise Haemodynamics in Trained and Untrained Men


Sch. of Human Kinet., Univ. of Ottawa.

B65 950.5 Alpha 2-Adrenergic Receptor Modulation of Calcium Current Is Impaired in Mesenteric Artery Projecting Sympathetic Neurons in DOCA-Salt Hypertensive Rats

R.K. Mui, R.N. Fernandes and J.J. Galligan.

Michigan State Univ.

B66 950.6 Feedforward Mechanisms Adjust Cerebral Blood Flow during Anticipated Postural Changes

G.H. Bourdages and B.J. Yates.

Univ. of Pittsburgh.

B67 950.7 Effects of Arginine Vasopressin Deficiency on Basal Mean Arterial Blood Pressure in the Rat


Autonomous Univ. of Aguascalientes, Mexico; Salvador Zubirán Natl. Inst. of Hlth. Sci. and Nutr., Mexico City and St. Michael’s Hosp., Univ. of Toronto.

B68 950.8 Effects of Acute Dietary Nitrate Supplementation on Aortic Blood Pressure and Wave Reflection in Young and Older Adults


Univ. of Iowa.

B69 950.9 The Role of Endothelial Cell Mineralocorticoid Receptors in Blood Pressure Regulation and Vascular Function


Tufts Med. Ctr. and Univ. of Missouri Sch. of Med., Columbia.

B70 950.10 Cellular and Respiratory Responses to Inhalation of Traffic-Derived Particles in a Rat Model of High Fructose Diet-Induced Cardio-metabolic Syndrome


951. **CARDIAC ELECTROPHYSIOLOGY I**

**Poster**

**TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B**

**Presentation time: 12:45 PM–3:00 PM**

B71 951.1 Improved Signal Quality and Sensitivity Using Intravascular Placement of Solid Tip ECG Leads in Rats


DSI, St. Paul.

B72 951.2 β3-Adrenergic Receptor Activation and Endoplasmic Reticulum Stress via Modulation of Intracellular Free Zn2+ Hyperglycemic Cardiomyocytes


Fac. of Med., Ankara Univ.

B73 951.3 Dynamic Imaging of Compartimentalised Intracellular Free Zn2+ Concentrations in Rat Ventricular Cardiomyocytes


Imperial Col. London and Fac. of Med., Ankara Univ., Turkey.

B74 951.4 P Wave Indices on Electrocardiogram and their Association with Obesity and Metabolic Syndrome

G.D. Vaidean, M. Manczuk and S.S. Vansal.

Fairleigh Dickinson Univ.; Icahn Sch. of Med. at Mount Sinai and Maria Sklodowska-Curie Mem. Cancer Ctr. and Inst., Warsaw.

B75 951.5 Effect of Thoracic Epidural Anesthesia on Heart Rate Variability in a Porcine Model


UCLA.

B76 951.6 Depressed Sarcoplasmic Reticulum Activity Underlies Ca2+ Dyshomeostasis in a Rat Model of Metabolic Syndrome


Ankara Univ. Fac. of Med.

952. **CARDIAC FUNCTION AND DYNAMICS II**

**Poster**

**TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B**

**Presentation time: 12:45 PM–3:00 PM**

B77 952.1 The Effects of Relative Exercise Intensity versus Individual Metabolism on LV Twist and Untwisting Rate


Cardiff Metro. Univ., Wales.

B78 952.2 Cerebrolysin effects on cardiovascular hemodynamic parameters in Sprague Dawley rats with chronic hyperglycemia induced by streptozotocin


Autonomous Univ. of Puebla, J. Suarez and M. Gomez.

B79 952.3 Wireless Power Source for Implantable Telemetry Devices

A. Davtyan and K. Pitsillides.

Transonic Systems, Davis.

B80 952.4 Improvement in Cardiac Function 1-Week Post Gastric Bypass Surgery


West Virginia Univ. Sch. of Med.

B81 952.5 Rapid Change in Afterload after Gastric Bypass Surgery


West Virginia Univ. Sch. of Med.
B82 952.6 When Mbytes Are Not Enough: Long-Term, Multiple Channel, Physiological Telemetry Implantable Datalogger V. Rotar, K. Pitsillides and M. Axellson. Transonomic EndoGear Inc., Davis and Univ. of Gothenburg.


B85 952.9 Distinct Roles of Neuronal Nitric Oxide Synthase in Metabolic Substrates Induced Abnormal Ca\textsuperscript{2+} Handling and Cardiac Arrhythmias in Normal and Hypertensive Rats Z-H. Zhao and Y.H. Zhang. Seoul Natl. Univ. Col. of Med.


B87 952.11 Enhanced External Counterpulsation Reduces Indices of Left Ventricular Wasted Energy and Myocardial Oxygen Demand in Patients with Left Ventricular Dysfunction and Refractory Angina D.T. Beck, J.S. Martin, D.P. Casey, P.D. Sardina and R.W. Braith. Univ. of Rhode Island; Quinipiac Univ., CT; Univ. of Iowa and Univ. of Florida.

B88 952.12 AT1 Receptors Modulate Ca\textsuperscript{2+} Transient in Adult Cardiomyocytes Treated with T3 A.P.T. Taniguti, E. Nocchi, P.M. Almeida, S. Guatimosim and M.L.M. Barreto-Chaves. Univ. of São Paulo.

953. WIGGERS AWARD POSTERS: CORONARY PHYSIOLOGY AND PATHOPHYSIOLOGY

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM—3:00 PM

B89 953.1 Rho-Kinase Mediates Biventricular Coronary Arterial Remodeling during Pulmonary Arterial Hypertension in Fischer 344 Rats E.S. Crockett, T. Stevens and I.F. McMurtry. Univ. of South Alabama.


B91 953.3 Release of Microparticles from Native Coronary Arteries and Saphenous Vein Grafts in Patients with Elective Stent Implantation under Protection with an Aspiration Device P. Kleinbongard, T. Baars, P. Horn, P. Kahler, C. Heiss, R. Westenfeld, M. Kelm, R. Erbel and G. Heusch. Univ. of Essen Med. Sch. and Univ. of Duesseldorf.


B96 953.8 Estrogen Induces Coronary Arterial Dilation via Downregulation of Voltage-Gated, Ca\textsuperscript{2+} Channels E. Niyonsaba, M.I. Moussa, N.J. Rusch and B.J.F. Hill. Univ. of Central Arkansas and Univ. of Arkansas for Med. Sci.


954. MYOCARDIAL ISCHEMIA/METABOLISM II

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM—3:00 PM


B102 954.5 Role of O-GlcNAcylation in Regulating Mitophagy in Cardiomyocytes J. Wright, P. Kramer, V. Darley-Usmar and J. Chatham. Univ. of Alabama at Birmingham.

B103 954.6 Mitochondria Are a Target of Cardioprotection by Ivabradine P. Kleinbongard, N. Gedik and G. Heusch. West German Heart and Vasc. Ctr., Univ. of Essen Med. Sch.
955. FREE RADICAL SIGNALING AND OXIDANT STRESS/INJURY I

Poster

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B111 955.5 Doxorubicin-Induced Activation of Intracellular Matrix Metalloproteinase-2 by Oxidative Stress B.Y.H. Chan, B.G. Hughes and R. Schulz. Univ. of Alberta.


B115 955.9 Induction of miR-21 Expression by Freshly Fractured Silica Involves ROS-Mediated ERK Pathway M. Ding, L. Hou, L. Bowman, T. Meighan, T. Settle and J. Liu. NIOSH, Morgantown and West Virginia Univ.

956. ENDOTHELIAL CELL BIOLOGY III

Poster

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B116 956.1 Changes in Endothelial Cell Membrane Morphology and Elasticity with Exposure to Polyunsaturated Free-Fatty Acids B. Mabry, E. Lau and B. Hunt. Wheaton Col., IL.


B119 956.4 Shear-Induced Extracellular Regulated Kinase Signaling to eNOS Is Increased When Autophagy Is Compromised in Endothelial Cells T. Ruan, L. Bharath, R. Mueller, R. Goodrich, T. Graham and J.D. Symons. Univ. of Utah.

B120 956.5 Dyslipidemia Induces Endothelial Cell Stiffening and Alterations in Angiogenic Potential Y. Bogachkov, M-J. Oh, J. Baruah, E. LeMaster, C. Adams, K. Wary and I. Levitan. Univ. of Illinois at Chicago.


B122 956.7 oxLDL Induce Endothelial Cell Stiffening through Rho/ROCK Signaling Pathway C. Zhang, M-J. Oh and I. Levitan. Univ. of Illinois at Chicago.

B123 956.8 Sex Differences in the Open Probability of TRPV4 Channels in Mouse Mesenteric Artery Endothelium S.K. Sonkusare, N. Villaiba, A. Raza, A.D. Bonev, K. Freeman, G.C. Wellman and M.T. Nelson. Univ. of Vermont.

957. HYPERTENSION II

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER,
EXHIBIT HALLS A & B

Presentation time: 12:45 PM—3:00 PM


958. DIABETES AND INSULIN RESISTANCE II

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER,
EXHIBIT HALLS A & B

Presentation time: 12:45 PM—3:00 PM


B140 958.6 Effects of Palmitate on Mitochondrial Number and PGC1α Splicing in Primary Human Myocytes P.P. Devarshi, E.M. Taylor, A.D. Jones and T.M. Henagan. Purdue Univ.

B141 958.7 Epigenetic Regulation of Pgc1α Splice Variants in Response to Dietary Quercetin Supplementation A.D. Jones, E.M. Taylor and T.M. Henagan. Purdue Univ.


959. DIABETIC RENAL DISEASE

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B144  959.1  Mathematical Model of Renal Hemodynamic and Structural Consequences of Increased Proximal Sodium Reabsorption in Early Diabetic Kidney Disease  K.M. Hallow. Univ. of Georgia.


B149  959.6  Prolonged High Glucose Treatment Increased Orai1 Protein Expression through Inhibition of Lysosomal Pathway in Mesangial Cells S. Chaudhari, Y. Wang and R. Ma. Univ. of North Texas Hlth. Sci. Ctr.


B154  959.11  Hydrogen Sulfide Inhibits Ca$^{2+}$-Induced Mitochondrial Permeability Transition Pore Opening in Type-1 Diabetes S. Kundu, S. Pushpakumar and U. Sen. Univ. of Louisville.


960. KIDNEY IN HYPERTENSION

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B156  960.1  Acute Blockade of PDGF Receptors Decreases Arterial Blood Pressure and Renal Vascular Resistance in Cyp1a1-Ren2 Transgenic Rats with Angiotensin II-Dependent Malignant Hypertension N.M. Haney and K.D. Mitchell. Tulane Univ. Sch. of Med.


B160  960.5  Internalized Angiotensinogen Is Secreted to the Apical Side in Renal Proximal Tubular Cells A.Y. Yeh and R. Satou. Tulane Univ. Sch. of Med.


B163  960.8  Hypertensive and Renal Injury Responses to Nitric Oxide Deficiency Are Unaffected by Tyrosine Kinase Inhibition in Mice with Global Deletion of Na,K-ATPase Regulatory Subunit FXYD2 D.S. Majid, P.J. Kadowitz and A. Castillo. Tulane Univ. Sch. of Med.

B164  960.9  Stretch Increases Intracellular Calcium More in Dahl-Salt-Sensitive than Salt-Resistant Rat Thick Ascending Limbs P. Cabral, A. Gonzalez-Vicente and J. Garvin. Case Western Reserve Univ.

B165  960.10  Resveratrol Treatment Reverses Mild Angiotensin II-Induced Hypertension, but Not by Increased Natriuresis K.L. Gordish and W.H. Beierwaltes. Wayne State Univ. and Henry Ford Hosp.


B173  960.18 Prevention of High Fat-Induced Podocyte Injury and Glomerular Sclerosis in Mice Lacking Nod-Like Receptor Protein 3: Role of Inflammasome Extinction K.M. Boini, M. Xia, S.M. Conley, G. Li, T.W. Gehr and P-L. Li. Virginia Commonwealth Univ.


B181  960.26 Regulation of Blood Pressure by the Calcineurin Homologous Protein-1 D. Di Sole, C. Escano and V. Babich. Des Moines Univ. and Univ. of Maryland Sch. of Med.


961. NUTRITION IN KIDNEY BIOLOGY

Poster

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIB HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B183  961.1 Metabolic Consequences of Experimental Uninephrectomy D. Arsenijevic, J-F. Cajot, I. Scerri and J-P. Montani. Univ. of Fribourg, Switzerland.


B185  961.3 The Succinate Receptor Contributes to Obesity-Induced Diabetes Type-II and Chronic Kidney Disease C. Carmone, J.H. Robben, J. van Diepen, A.C. Ariza, O. Devuyst, R. Stienstra and P.M. Deen. Radboud Univ. Nijmegen Med. Ctr. and Univ. of Zurich.

B186  961.4 Effects of Fructose Feeding on Mice with Dual Knockout of the Insulin and Insulin-Like-Growth Factor, Type 1 Receptors from Proximal-Tubule K. Doh, L. Li and C.M. Ecelbarger. Georgetown Univ.


962. SEX IN RENAL FUNCTION

Poster

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIB HALLS A & B

Presentation time: 12:45 PM–3:00 PM


963. OXIDATIVE STRESS AND HYPOXIA IN THE KIDNEY

Poster

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B197 963.5 Pericytes Protect against Renal Ischemia-Reperfusion Injury in Male and Female Spontaneously Hypertensive Rats G.R. Crislip, P.M. O’Connor and J.C. Sullivan. Georgia Regents Univ.

B198 963.6 Urinary PO2 as a Biomarker for Medullary Hypoxia I. Sguorulis, R.G. Evans, B.S. Gardiner and A.T. Layton. Univ. of Tennessee, Knoxville; Monash Univ.; Univ. of Western Australia and Duke Univ.


B200 963.8 Increased Oxygen Consumption and Basal Metabolism of the Proximal Tubule in Early Diabetes P. Singh, J. Thomas, H. Pham, S. Khang and S. Thomson. UCSD and VA San Diego Healthcare Syst.


B202 963.10 Role of NOX4 in Superoxide Production Stimulated by H+ Efflux in mTAL of SS Rat N.N. Zheleznova, P.M. O’Connor and A.W. Cowley. Med. Col. of Wisconsin and Georgia Regents Univ.

964. CARDIOVASCULAR AND RENAL MECHANISMS IN DIABETES AND METABOLIC SYNDROME

Poster

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B203 964.1 Angiotensin II Dependent Regulation of TRPC6 Calcium Channels in the Podocytes of the STZ-Induced Type 1 Diabetic Dahl SS Rats D. Ilatovskaya, O. Palygin, A. Lowing, V. Levchenko and A. Staruschenko. Med. Col. of Wisconsin.

B204 964.2 Utilizing a Type 1 Diabetic Nephropathy Model Developed on the Basis of Streptozotocin-Treated Dahl SS Rats for the Studies of Calcium Handling in the Podocytes A. Lowing, D.V. Ilatovskaya, O. Palygin, T. Pavlov, V. Levchenko and A. Staruschenko. Med. Col. of Wisconsin.


B209 964.7 Different Susceptibility to Vascular Damage Induced by Chronic Hyperglycemia in Aortic and Pulmonary Arteries from Sprague Dawley and Wistar Kyoto Rats L. De Jesus, E. Zurría, M. D. J. Gomez and J. Suarez. Univ. Autonoma de Puebla, Mexico and UCSD.


B211 964.9 Sex Differences in the Progression of Diabetes-Associated Cardiac Pathology K. Lum-Naihe, A. Raja, J. Bajwa, A. Mahmood, C. Luck, C. Emter and L. Pulakat. Univ. of Missouri-Columbia.
965. DEVELOPMENTAL PROGRAMMING AND CARDIORENAL FUNCTION IN ADULTS

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B216 965.5 Early Life Stress Induces Dysregulation of Pro- and Anti-inflammatory Gene Expression in Renal Cortex of Adult Rats in Response to Chronic Angiotensin II I.E. Obi, A.S. Loria, D.H. Ho, C. De Miguel and J.S. Pollock. Univ. of Alabama at Birmingham and Univ. of Kentucky.

966. THE HEART OF THE MATTER: MENOPAUSE, SEX STEROIDS, AND CARDIOVASCULAR DISEASE

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B219 966.3 Coronary Ischemia Reperfusion Increases Degranulation of Cardiac Mast Cells Similarly in Male and Female Rats 8 Weeks after Ischemia K. Scrogin, S. Tolia and A. Samare. Loyola Univ. Chicago, Stritch Sch. of Med.


B224 966.8 Impact of Chronic Salt Load on Mean Arterial Pressure in Female Growth Restricted Rats at One Year of Age A.D. Brown, S. Intapad and B.T. Alexander. Univ. of Mississippi Med. Ctr.

967. TRANSLATIONAL RESEARCH IN WATER AND ELECTROLYTE HOMEOSTASIS PHYSIOLOGY

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


968. WATER, ELECTROLYTE AND BLOOD PRESSURE HOMEOSTASIS: NEURAL AND HORMONAL REGULATORS AND STRESSORS

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM—3:00 PM


B238 968.6 Intracellular Renin in the Brain Contributes to Cardiovascular and Metabolic Control K. Shinohara, B.J. Weidermann, M.D. Folchert, X. Liu, D.A. Morgan, K. Rahmouni, J.L. Grobe and C.D. Sigmund. Univ. of iowa.


B241 968.9 Dynamic Response to Long-Term Sodium Loading and Restriction F. Karaaslan and R. Hester. Istanbul Hlth. Directorate.

B242 968.10 Effect of Water and/or Food Deprivation on Renal Function T.D. Pessoa and G. Malnic. Univ. of São Paulo.

B243 968.11 Impaired Baroreflex Response Correlates with Reduced Conduit Vessel Contractility in Female Maternally Separated Rats and Reveals α12 Adrenergic Receptor Dysfunction M.O. Murphy, L.J. Evans, T.M. Mahanes and A.S. Loria. Univ. of Kentucky.

B244 968.12 Evidence for ETB Receptor Mediated Pressor Effects Mediated by Alpha-Adrenergic Receptors M. Powell, J.S. Speed and D.M. Pollock. Univ. of Alabama at Birmingham and Univ. of Evansville.


B250 968.18 Identification of CNS Sites Involved in the Cardiovascular and Renal Responses Elicited by Nociceptin/Orphanin FQ in Conscious Hypertensive Rats via c-Fos Immunocytochemistry B. Hollister, T. Nguyen, C. Franklin, Y. Rangel and H. Gottlieb. UIW Feik Sch. of Pharm., San Antonio and Univ. of Texas Hlth. Sci. Ctr. at San Antonio.


B256 968.24 Sex Differences in the Diurnal Natriuretic Response to a Salt Load in Rats Lacking a Functional ET A Receptor J.G. Johnston, J.A. Mason, C. Jin, J.S. Speed and D.M. Pollock. Univ. of Alabama at Birmingham.
969. EPITHELIAL TRANSPORT: CELL BIOLOGY OF TRANSPORTERS AND CHANNELS

Poster

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM—3:00 PM


B258 969.2 Neural FFA3 Negatively Regulates Cholinergic Secretory Function in Rat Proximal Colon I. Kaji, Y. Akiba, K. Narimatsu and J.D. Kaunitz. UCLA/BBRI and West LA VA Med. Ctr.

B259 969.3 Short-Term Regulation of Amino Acid Transporters by Amino Acids J. Jando, J. Jordi and F. Verrey. Univ. of Zürich.


B264 969.8 IRBIT Mediates Trafficking and Activation of Na\(^+\)-K\(^+\)-ATPase by Angiotensin II P. He, Z. Xie and C. Yun. Emory Univ. and Marshall Univ.


B266 969.10 Intestinal Phosphate Regulation in Chronic Kidney Disease V. Hogg-Cornejo, E. Sutherland, E. Dobrinskikh and M. Levi. Univ. of Colorado Denver Anschutz Med. Campus.


B272 969.16 S-Glutathionylation of Epithelial Sodium Channels in Neonatal Mouse Lung Regulates Alveolar Fluid Clearance In Vivo P.T. Trac and M.N. Helms. Emory Univ. Sch. of Med.


B274 969.18 Epithelial Sodium Channel Tagged with Bungarotoxin Binding Site to Study Channel Plasma Membrane Expression and Trafficking R. Gonzalez-Montelongo, D. Alvarez de la Rosa and T. Giraldez. Univ. of La Laguna, Spain.

B275 969.19 RanBPM Likely Mediates Sodium Chloride Cotransporter Regulation through a WKNI-ERK 1/2 Signaling Pathway M.A. Sun, C.M. Caroti, X. Feng, B. Zhou and H. Cai. Emory Univ. Sch. of Med.


B277 969.21 Interaction between NCC and ENaC \(\alpha, \gamma\) Subunits Are Differentially Regulated – Role of SGK1 B.M. Wynne, O. Al-Khalili, D.C. Eaton and R.S. Hoover. Emory Univ. and Atlanta VA Med. Ctr., Decatur.


B279 969.23 AMPK Regulates the Vacular H\(^+\)-ATPase via 14-3-3 Proteins M.M. Al-bataineh, H. Li, A.L. Marciszn, V. Bhalla, K.R. Hallows and N.M. Pastor-Soler. Univ. of Pittsburgh and Stanford Univ.


970. EPITHELIAL TRANSPORT: PATHOPHYSIOLOGY

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B284 970.1 Role of Insulin and Insulin-Like-Growth Factor Receptors in Renal Proximal Tubule Phosphorous Handling K. Doh, L. Li and C.M. Ecelbarger. Georgetown Univ.


B286 970.3 Intravital Imaging Reveals Angiotensin II-Induced Endocytosis and Shedding of Plasma Albumin by Podocytes I.M. Schießl, V. Kattler, A. Hammer and H. Castrop. Univ. of Regensburg, Germany.


B288 970.5 Effect of Remote Ischemic Perconditioning on Renal Water and Salt Handling in Rats Subjected to Renal Ischemia/Reperfusion M.L.V. Kristensen, C.K. Lassen, H. Birn and R. Nørregaard. Aarhus Univ., Denmark.


B292 970.9 Regulation of Intestinal SGLT1 by Catatatin in Hyperleptinemic Type 2 Diabetic Mice J.A. Dominguez Rieg, V.R. Chirasani, H. Köpsell, S. Senapati, S.K. Mahata and T. Rieg, Bastyr Univ. CA; VA San Diego Healthcare Syst.; Indian Inst. of Technol. Madras; Univ. of Würzburg and UCSD.


B298 970.15 Gout-Causing Q141K Mutation in ABCG2 Leads to Defective Nucleotide-Binding Domain Function O.M. Woodward and Z. Moosvi. Univ. of Maryland Sch. of Med.

B299 970.16 TNF-α Requires cAMP/Calcium Response Elements to Inhibit slc38a2 Transcription for SNAT2 Mediated Met Uptake in Entercocytes J. Talukder and D. McIntosh. LeMoyne-Owen Col., TN.


971. RENIN-ANGIOTENSIN SYSTEM, ION TRANSPORT, AND VASCULAR DISEASE: GENES AND FUNCTION

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B306 971.5 The Activation of the(Pro)renin Receptor Stimulates Fibrotic Factors Expression Independent of β-Catenin Signaling Pathway in Collecting Duct Cells C.A. Cueva, A.A. Gonzalez, N.C. Inestrosa, C.P. Vio and M.C. Prieto. Catholic Univ. of Chile; Catholic Univ. of Valparaiso, Chile and Tulane Univ.
972. CELLULAR RESPONSES TO INFLAMMATION

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B318 972.4 Effects of Mast Cell Chymase on Cardiac Fibroblast Function W. Carver, A. Carver, C. Fix and E. Goldsmith. Univ. of South Carolina.


973. PHYSIOLOGY OF SIGNAL TRANSDUCTION:
PROTEINS PATHWAYS AND CELLS

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B323 973.1 The Inhibitory G-Protein, Gi, Accelerates the Progression of Insulitis and Hyperglycemia in a Type 1 Diabetes Mouse Model M.T. Cadena, N.A. Truchan, A.L. Brill and M.E. Kimple. Univ. of Wisconsin-Madison.

B324 973.2 Bile Acid and ATP Signaling in Exocrine Pancreatic Cells J.M. Kowal, K.A. Haanes, N.M. Christensen and I. Novak. Univ. of Copenhagen.


B326 973.4 Probing Unexplored Neutrophil GPCR Signaling Pathways to Discover Novel Anti-bacterial Targets R. Corriden, R. Flores, V. Nizet and P.A. Insel. UCSD and San Diego State Univ.

974. CELL SIGNALING: PROTEINS, PATHWAYS AND MECHANISMS

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER,
EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B328 974.1 Towards New Insights in Epithelial Ion Channels Regulation by the ER Luminal Chaperone ERP29


B330 974.3 O-GlcNAc Plays a Role in Nrf2 Regulation in the Myocardium B.P. Dieter, E.J. Johnson, H.M. Medford, L.E. Miller, C.A. Vella and S.A. Marsh. Univ. of Idaho and Washington State Univ.


B332 974.5 Mechanism of Linaclotide-Induced Trafficking of CFTR and NHE3 in the Human Intestinal Cell-Lines Caco-2 BBc and T84 cells M.K. Ahsan, I. Silos-Santiago and N. Ameen. Yale Univ. Sch. of Med. and Ironwood Pharmaceut., Cambridge, MA.


B335 974.8 BMP R2 Mutation in Cardiomyocytes Impairs Insulin-Dependent Trafficking of CD36 M. Talati, M. Funke, N. Penner, J.D. West and A. Hemnes. Vanderbilt Univ.

B336 974.9 Taming the Promoter: Regulation of Tissue Inhibitor of Matrix Metalloprotease 4 in Heart Failure P. Chaturvedi and S.C. Tyagi. Univ. of Louisville.


B345 974.18 Expression of Cdk5r1 and not Cdk5r Induces Primary β-Cell Proliferation B.F. Bitner, C. Draney, A. Hobson and J.S. Tessem. Brigham Young Univ.

B346 974.19 Knockdown of the 110kDa Subunit of OGT Dysregulates Cardiac Remodeling in Response to Pressure Overload H.M. Medford, L.E. Miller, B.P. Dieter, E.J. Johnson and S.A. Marsh. Washington State Univ. and Univ. of Idaho.

B347 974.20 Involvement of Multiple Cell Signaling Pathways in Cigarette Smoke induced Modulation of Ovarian Cancer Cell Proliferation W.K. Sumanasekera, D. Ngo, L. Tran, T. Nguyen and M. Castle. Sullivan Univ. Col. of Pharm., KY.

975. VESICLE TRAFFICKING, MEMBRANE DOMAINS, POLARITY AND PROTEIN TARGETING

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER,
EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B350 975.3 Chronic Alcohol Consumption and its Effects on the Cardiac Apoptosis C. Etoundi, G. Haddad and B. Mark. Trinity Washington Univ. and Howard Univ.


B352 975.5 Sec10 and the Exocyst are Necessary for Intracellular Transport of Molecules in Innate Immune Cells In Vitro and In Vivo N. Polgar, A.J. Lee, V.H. Lui and B. Fogelgren. Univ. of Hawaii.

B353 975.6 Porosome: Involvement of Hsp90 in its Assembly and Function B.P. Jena, A. Rajagopal, S. Kulkarni, K.T. Lewis, X. Chen and D.J. Taatjes. Wayne State Univ. and Univ. of Vermont.
B354 975.7 Trafficking and Membrane Targeting of NBCn1 in MCF-7 Breast Cancer Cells C.W. Olesen, J. Vogensen and S.F. Pedersen. Univ. of Copenhagen.

976. EXTRACELLULAR MATRIX, CELL INTERACTIONS AND TISSUE ORGANIZATION
Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B
Presentation time: 12:45 PM–3:00 PM


977. OXIDATIVE STRESS, MITOCHONDRIAL METABOLISM AND REDOX CHANGES IN HEALTH AND DISEASE
Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B
Presentation time: 12:45 PM–3:00 PM

B357 977.1 Macrophage-Secreted Ceramides Are Necessary for Skeletal Muscle Mitochondrial Disruption with LPS Treatments K. Simmons, M. Hansen and B. Bikman. Brigham Young Univ.

B358 977.2 Naturally Occurring Anti-oxidants as Possible Chemo-preventives for Pancreatic Tumor Cell Proliferation P. Chowdhury and E. Fenton. Univ. of Arkansas for Med. Sci.


B363 977.7 A Translational Kinetic Analysis of Rodent and Human Hearts Shows Species-Specific Differences and Increases in Monoamine Oxidase Activity with Obesity/Diabetes M. Nelson, L. Katunga, E.J. Anderson and A.P. Kypson. East Carolina Univ.

B364 977.8 Decreased Nitric Oxide Availability Contributes to the Impaired Mitochondrial Biogenesis and Oxidative Stress in Fetal Lambs with Pulmonary Hypertension (PPHN) A.J. Afolayan. Med. Col. of Wisconsin, Wauwatosa.


B366 977.10 Effects of Iron Deficiency in the Production of Oxidative Stress Biomarkers in the Central Nervous System and Spleen of BALB/c Mice A. Martinez, I. Contreras, B. Pliego and J.A. Estrada. Autonomous Univ. of Mexico State, Toluca.

B367 977.11 SIRT3 Blocks Doxorubicin-Induced Cardiac Hypertrophic Response by Suppressing ROS Synthesis from Mitochondria V.B. Pillai, S. Samant, G. Kim and M.P. Gupta. Univ. of Chicago.


978. APOPTOSIS, CELL STRESS AND CELL DEATH
Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B
Presentation time: 12:45 PM–3:00 PM

B371 978.1 The Effects of Receptor Interacting Protein 3 on Necroptosis in RGC-5 following Elevated Hydrostatic Pressure L. Shang, K. Xiong and J. Huang. Central South Univ.Sch. of Basic Med. Sci., Changsha, China.

B372 978.2 Elevated Apoptosis in Ovine Intrauterine Growth Restriction Is Associated with Increased Caspase 3 and 9 and Decreased Telomerase Activity A.P. Mika, P.R. Reynolds and J.A. Arroyo. Brigham Young Univ.

B373 978.3 Up-regulation of Clusterin Is Involved in MSC Overexpressing GATA-4 Mediated Cell Protection Y. Yang, B. Reynolds and J.A. Arroyo. Brigham Young Univ.


B375 978.5 Repeated Induction of Autophagy or Mitophagy Protects C2C12 Cells from Subsequent Apoptotic Insults D. Bloemberg and J. Quadrilatero. Univ. of Waterloo, Canada.
**979. OXIDATIVE STRESS: MECHANISMS AND RESPONSES**

**Poster**

**TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B**

**Presentation time:** 12:45 PM–3:00 PM

**B376 978.6** Striatin Is Cleaved during Apoptosis in a Caspase-3 Mediated Manner: A Step towards Novel Biomarkers for Apoptosis  

**B377 978.7** Vanadium Complexes Inhibit the Growth of HT-29 and MCF-7 Cancer Cell Lines  

**B378 979.1** Differential Effects of Buffer pH, CaCl₂, and Superoxide Dismutase on Ca²⁺-Induced H₂O₂ Release from Mitochondrial Complexes I and II  

**B379 979.2** PPARγ-Independent Side Effects of Thiazolidinediones on Mitochondrial Redox State in Rat Isolated Hearts  

**B380 979.3** Truncation of GSK-3β in Cardiac Mitochondria Is the Master Switch of the mPTP  

**B381 979.4** Calcineurin Alpha Induction Inhibits Nox2 Up-regulation via NFκB  

**B382 979.5** NADPH Oxidases Mediate Zinc Deficiency-Induced Oxidative Stress in Mouse Kidneys  

**B383 979.6** Nuclear Localization and Biological Function of Matrix Metalloproteinase-2  

**B384 979.7** Effects of Chemotherapy and Hormone Therapy on Biomarkers of Cardiac Injury and Oxidative Stress in Women with Breast Cancer  

**B385 979.8** Can Hyperglycemia-Induced Endothelial Dysfunction Be Reversed by Regulating the Fate of Superoxide?  
H. Patel, J. Chen and M. Kavdia. Wayne State Univ.

**B386 979.9** The Effect of Iqmk-Derived Metals on ROS Production in Oral Epithelial Cells  

**B387 979.10** Prolonged Use of Chloramphenicol Induces Aplastic Anemia and Oxidative Stress in Broiler Chicken  

**B388 979.11** Cross-Sensitivities of Amperometric Sensors Designed for Specific Gaseous Signaling Molecules  
E.R. DeLeon, M.S. Arif, E.S. Huang, Y. Gao and K.R. Olson. Indiana Univ. Sch. of Med. South Bend; Univ. of Notre Dame and Purdue Univ.
982. THE COST OF PHYSIOLOGICAL PLASTICITY

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B
Presentation time: 12:45 PM–3:00 PM

983. CENTRAL NERVOUS SYSTEM: OTHER

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B
Presentation time: 12:45 PM–3:00 PM

984. CNS MECHANISMS OF BLOOD PRESSURE REGULATION

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B
Presentation time: 12:45 PM–3:00 PM


B423 984.6 Depression-Like Symptoms Are Associated with Dysbalance in Vascular Norepinephrine Uptake: This Is Worsening by Antidepressants and Increases the Risk for Hypertension V.V. Matchkov, O. Wiborg, E. Bouzinova and C. Aalkjaer. Aarhus Univ., Denmark.

B424 984.7 Role of Baroreceptors in Hypotension and Renal Sympathoinhibition Induced by Blockade of the Median Preoptic Nucleus A.A. Mourãô, E.F. Da Silva, M.C. Dos Santos Moreira and G.R. Pedrino. Fed. Univ. of Goiás, Brazil.


B429 984.12 Dynamic Regulation of microRNA Networks in the Brainstem Characterize Hypertension Development D. DeCicco, J.S. Schwaber and R. Vadigepalli. Thomas Jefferson Univ.


B431 984.14 AT1a Receptor Upregulation in the MnPO following CIH Leads to Sustained Hypertension B. Shell, T.P. Nedungadi and J.T. Cunningham. Univ. of North Texas Hlth. Sci. Ctr.

B432 984.15 Angiotensin Converting Enzyme 1 Knockdown in the Median Preoptic Nucleus Attenuates Downstream Neural Activation following Chronic Intermittent Hypoxia K. Faulk and J.T. Cunningham. Univ. of North Texas Hlth. Sci. Ctr.


B435 984.18 Deletion of Protein Tyrosine Phosphatase 1b in Proopiomelanocortin Neurons Reduces Sympathetic Tone and Protects Mice from Leptin-Induced High Blood Pressure T. Bruder-Nascimento, B. Benjamin, K.K. Bence and E.J. Belin de Chantemelle. Georgia Regents Univ.


985. CENTRAL REGULATION OF AUTONOMIC CONTROL: BRAIN STEM

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM—3:00 PM

B438 985.1 Hypoxia and Hypercapnia Impairs Cardiac Vagal Control: The Role of Orexin O. Dergacheva and D. Mendelowitz. George Washington Univ.


B441 985.4 Diminished Excitatory Neurotransmission to Brainstem Cardiac Vagal Neurons in Rats with Ascending Aortic Constriction-Induced Heart Failure X. Wang, E. Cauley, P.B. Byrne and D. Mendelowitz. George Washington Univ.

B442 985.5 Activation of Brainstem Neurons in Voluntarily Diving Rats after Bilateral Sectioning of the Anterior Ethmoidal Nerve P.F. McCulloch and E.A. Warren. Midwestern Univ., IL.


986. CENTRAL REGULATION OF AUTONOMIC CONTROL: CNS

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B447 986.2 NMDA Receptors in the Raphe Pallidus Contribute to the Cardiovascular Response Induced by Acute Emotional Stress in Rats N.L. Santos Machado, T.G.P.R. Coelho, F.C.F. Muller-Ribeiro, L.M.S. Cordeiro and M.A.P. Fontes. ICB, Fed. Univ. of Minas Gerais, Brazil.

B448 986.3 Central Inflammation Induced by High Fat Diet Sensitizes Angiotensin II Hypertension B. Xue, Y. Yu, F. Guo, T.G. Beltz, R.B. Felder and A.K. Johnson. Univ. of Iowa.

B449 986.4 Tempol Intracerebroventricular Injection Abolishes the Hypertension and Mortality Arising from the Central Action of Scorpion Tityustoxin F. Silva, J. Guerra, R. de Menezes, P. Guidine and D. Chianca-Jr. Fed. Univ. of Ouro Preto and Fed. Univ. of Minas Gerais, Brazil.


987. CENTRAL REGULATION OF AUTONOMIC CONTROL: HYPOTHALAMUS

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B453 987.1 Brain Region-Specific Expression of Angiotensin AT1a Receptors in Microglia S. Voong, K.E. Claflin and J.L. Grobe. Univ. of Iowa.

B454 987.2 Effects of Combined Oxytocin Receptor with Vasopressin Receptor (V1aR or V1bR) Blockade within Paraventricular Nucleus on Neurocardiovascular Responses N.F. Rossi and C. Li. Wayne State Univ. and John D. Dingell VA Med. Ctr.

B455 987.3 N-Methyl-D-Aspartate Receptors Contribute to the Excitatory Sympathetic and Hemodynamic Responses to Blood-Borne Pro-inflammatory Cytokines in Rat S-G. Wei, Y. Yu and R.B. Felder. Univ. of Iowa Carver Col. of Med. and VA Med. Ctr.


B457 987.5 Blockade of NMDA Receptors in the Dorsomedial Hypothalamic Region Attenuates the Cardiovascular Response Evoked by Cage Switch Stress C.A. Paula, F.R. Marins, P.S. Guimaraes, L.M.S. Cordeiro and M.A.P. Fontes. ICB, Fed. Univ. of Minas Gerais, Brazil.


B460 987.8 Cardiovascular and Autonomic Modulation by Paraventricular Nucleus of Hypothalamus during Head Down Tilt in Unanesthetized Rats E.D. Amorim, V.R. Peras, O. de Andrade and M.C. Martins-Pinge. Univ. of Londrina, Brazil.


988. INTERACTIONS BETWEEN CARDIOVASCULAR AND INGESTIVE BEHAVIORAL SIGNALS AT THE CIRCUMVENTRICULAR ORGANS

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B463 988.1 OVLT Neurons Exhibit Exquisite Osmosensitivity to Elevated NaCl Concentrations B.J. Kinsman, K.N. Browning and S.D. Stocker. Penn State Col. of Med.

B464 988.2 Overtreatment of Copper/Zinc Superoxide Dismutase (SOD1) in the Organum Vasculosum of the Lamina Terminalis Attenuates Chronic Angiotensin II Hypertension in the Rat J.P. Collister, H. Taylor-Smith, D. Drebes, D. Nahey, J. Tian and M.C. Zimmerman. Univ. of Minnesota and Univ. of Nebraska Med. Ctr.

B465 988.3 Actions of Angiotensin II at the OVLT and Voluntary Alcohol Ingestion J.P. Collister, D. Drebes and D. Nahey. Univ. of Minnesota.

B466 988.4 Leptin and Amylin Influence the Excitability of Area Postrema Neurons, Possibly via cAMP-Mediated Mechanisms P.M. Smith, P. Brzezinska, F. Hubert, D.H. Maurice and A.V. Ferguson. Queen’s Univ., Canada.
B467 988.5 Glucose Concentrations Influence Subfornical Organ Neuron Responsiveness to Cholecystokinin N.M. Cancelliere, L. Dai and A.V. Ferguson. Queen’s Univ., Canada.  
B468 988.6 BDNF Influences the Excitability of Subfornical Organ Neurons E.A. Black, W.C. Mclsaac and A.V. Ferguson. Queen’s Univ., Canada.  
B469 988.7 Angiotensin Type 1a Receptors in the Forebrain Subfornical Organ Protect against High Fat Diet-Induced Hepatic Steatosis J.A. Horwath, S.D. Butler, A.L. Mark, R.L. Davisson and C.N. Young. Weill Cornell Med. Col.; Cornell Univ. and Univ. of Iowa.

989. EXERCISE AND NUTRITION  
Poster  
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B  
Presentation time: 12:45 PM–3:00 PM

B470 989.1 Responses of Lipolysis to a Meal after Physical Activity in Lean and Obese Children H. Yan, K.B. Myers, G.S. Dubis, J.R. Pierce, C.J. Tanner and R.C. Hickner. East Carolina Univ.


B473 989.4 β-Alanine Ingestion Improves Behavioral Responses to a Predator Scent Stress J.R. Hoffman, H. Cohen, J.R. Stout and I. Ostfeld. Univ. of Central Florida; Ben-Gurion Univ. and Israel Defense Force, Tel Hashomer.


B477 989.8 The Physiological Effect of Fasting the Month of Ramadan on Anthropometrics and Blood Variables Y.R. Alayafi, M.S. Alsuilaiman, K.S. Aljaloud, A.M. Jabbary, S.O. Aljaloud, A.A. Alidayel, A.C. Fry, P.P. Vardiman and P.M. Gallagher. KSU; Prince Faslial Sport Med. Hosp. and Univ. of Kansas.

990. REDUCED GRAVITY AND HYPERBARIC ENVIRONMENTS  
Poster  
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B  
Presentation time: 12:45 PM–3:00 PM


B480 990.3 Lower Body Negative Pressure Counters Simulated Microgravity-Induced Elevations of Intracranial Pressure B.R. Macias, E.M. Clary and A.R. Hargens. UCSD.


B482 990.5 Satellite Cell Content Decreases and Muscle Physiology Is Altered during 2 Weeks of Physical Inactivity in Middle-Aged Adults J.A. Holt, D.G. Chang, J.C. Lotz and A.R. Hargens. UCSD.


B484 990.7 Centrifuge Size and Operation Effects on Mouse Adaptation To +G C.A. Fuller, T.M. Hoban-Higgins and J. Alberts. Univ. of California, Davis and Indiana Univ.


B486 990.9 Lower Body Negative Pressure Counters Internal Jugular Vein Engagement during Simulated Microgravity S. Baird, B.R. Macias and A.R. Hargens. UCSD.


422
991. RESPONSES OF BONE AND CONNECTIVE TISSUE TO EXERCISE AND INACTIVITY

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B490 991.3 Measurements of Mechanical and Chemical Properties of Rats and Mice Bones under Simulated Space-Like Environment R. Mehta, N. Ali and P. Chowdhury. Univ. of Central Arkansas; Univ. of Arkansas at Little Rock and Univ. of Arkansas for Med. Sci.

B491 991.4 Bone Density and Strength Decreased in a Mouse Model of Diabetes, db/db Mice R. Samadfam, E. Rocheford, J.A. Cornicelli and S.Y. Smith. Charles River, Senneville, QC and Charles River, Wilmington, MA.

992. SIGNALING WITH MUSCLE AMONG CELLS, TISSUES AND ORGANS

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B495 992.4 Exercise-Induced Amelioration of Diet-Induced Obesity and Diabetes Is Not Regulated by Irisin A. Saleem, A. Safdar, M.E. Haikalis, M. Akhtar, R. Suri and M.A. Tarnopolsky. McMaster Univ., Canada.

B496 992.5 METRNL Rescues Glucose Intolerance and Ameliorates Obesity Phenotype in a Diet-Induced Model of Obesity A. Saleem, A. Safdar, M.E. Haikalis, M. Akhtar, H. Haziri and M.A. Tarnopolsky. McMaster Univ., Canada.

993. TEMPERATURE REGULATION

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B497 993.1 Warm Water Immersion Similarly Reduces Arterial Blood Pressure in Obese Type 2 Diabetic and Healthy Individuals E. Rivas, D.E. Newmire, C.G. Crandall and V. Ben-Ezra. Texas Woman’s Univ. and Texas Hlth. Presbyterian Hosp. of Dallas and Univ. of Texas Southwestern Med. Ctr.


B501 993.5 Physiological Differences between Torpor and Forced Hypothermia in Mice M.A. Vicent Allende and S.J. Swoap. Williams Col., MA.


B504 993.8 Deprivation of Plasma Estradiol Level Affects Circadian Rhythms of Body Core and Tail Skin Temperature in Female Rats S. Marui and K. Nagashima. Waseda Univ., Japan.


994. VASCULAR RESPONSES TO EXERCISE AND ENVIRONMENTAL STRESS

Poster

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B520 994.3 Exercise Training Activations PI3K/Akt/eNOS Signalling Improves Insulin Resistance in Post-mycocardial Infarction Rats Y. Wang, Z. Tian, Y. Li and S. Chen. Shaanxi Normal Univ., China.


B522 994.5 Macronutrients and Proteins in Cheese Reduce Acute Dietary Sodium-Induced Endothelial Dysfunction in the Cutaneous Microcirculation A.E. Staniewicz, B.K. Alba, W.L. Kenney and L.M. Alexander. Penn State.
995. ADIPOCYTE FUNCTION AND METABOLISM

Poster

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM—3:00 PM


996. DIET, NUTRITION, AND ADIPOSE TISSUE

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B564 996.4 Trends of Consumption of Foods Containing Added Sugars and Associated Factors among Adults of 9 Provinces in China L. Zhao, D. Yu and D. Li. Natl. Inst. for Nutr. and Hlth., China CDC.


B566 996.6 Epigenetic Silencing of Netrin Is Associated with Memory Loss by High Methionine, Low Folate and Vitamin B6/B12 Containing Diet A. Kalani, P.K. Kamat, D. Lominadze and N. Tyagi. Univ. of Louisville.


B568 996.8 Q-16, a Partial PPARg Agonist, Decreases Adiposity and Induces the Thermogenesis-Related Genes in Obese Mice M. Coelho, C. Lima, C. Rofer, I. Pitta, A. Amato and F. Neves. Univ. of Brasilia and Univ. of Pernambuco, Brazil.


997. PANCREATIC HORMONE AND DIABETES

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


998. BARRIER FUNCTION AND REPAIR

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM


B583 998.5 Calcium Glycerophosphate Preserves Transepithelial Integrity P. Datta and M.T. Weis. Texas Tech Univ. Hlth. Sci. Ctr.

B584 998.6 Epithelial Regeneration after Gastric Ulceration Causes Prolonged Weakened Defenses and Altered Cell Types E. Aiha, A.L. Matthys and M.H. Montrose. Univ. of Cincinnati.

999. GASTROINTESTINAL AND LIVER CANCER: CURRENT INSIGHTS INTO MEDIATORS AND MODULATORS
Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B
Presentation time: 12:45 PM—3:00 PM

B586 998.8 PTPN2 Gene Deficiency Leads to Increased Epithelial Permeability and Promotes STAT-1-Dependent Claudin-2 Expression M. Krishnan, A. Sayoc and D.F. McCole. Univ. of California, Riverside.

B587 998.9 MiR-150 Expression Significantly Reduced in the Gut after Alcohol and Burn Injury N.L. Morris, X. Li, A.M. Hammer, A.R. Cannon, Z.M. Earley and M.A. Choudhry. Loyola Univ. Chicago, Maywood.

1000. GASTROINTESTINAL CANCER AND METASTASIS
Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B
Presentation time: 12:45 PM—3:00 PM

B595 1000.1 A Gradual Rise in Cancer Stem Cells in the Crypt-Villosus Axis of the Colon during Aging A.P.N. Majumdar, P. Nangia-Makker and Y. Yu. VA Med. Ctr. and Wayne State Univ.

B596 1000.2 Enteric Glial Cells Activate Colon Cancer Stem Cells to Promote Tumorigenesis S. Valès, M. Biraud, S. Marionneau-Lambot, T. Oullier, M. Neunlist and L. Van Landeghem. INSERM 913, Inst. of Digest. Dis.; Nantes Univ. and CGO, Nantes.

1001. GASTROINTESTINAL DEVELOPMENT
Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B
Presentation time: 12:45 PM—3:00 PM

B600 1001.1 The Effect of Valproic Acid on Notch Signaling in Danio rerio Intestinal Cell Differentiation K. Llorente and J.K. Uno. Elon Univ., NC.
1002. GASTROINTESTINAL MOTILITY

Poster

TUES. 7:30 AM — BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM – 3:00 PM

B601 1002.1 Quercetin Relaxes Cholecystokinin- and KCl-Induced Tension in Guinea Pig Gallbladder Strips L. Kline and E. Karpinski. Univ. of Alberta.


B604 1002.4 Proximity Ligation Assay of Interactions between β-1 Integrin and Ca2+ Sensitization Proteins during the Contractile Response of Gastric Fundus Smooth Muscles to Cholinergic Stimuli Y. Xie and B.A. Perrino. Univ. of Nevada Sch. of Med.

B605 1002.5 Brainstem Dopamine Controls Gastric Tone and Motility L. Toti and R.A. Travagli. Penn State Col. of Med.

B606 1002.6 Neurochemical Phenotype of Afferent Neurons of the Nucleus Tractus Solitarius in Response to Esophageal Distension in the Rat J. Ambler, T. Babic and R.A. Travagli. Penn State Col. of Med.


B610 1002.10 Abundant 5-HT Release from EC Cells Disrupts Colonic Motility B. Lavoie, D. Tchitchkan and G.M. Mawe. Univ. of Vermont.


B613 1002.13 Altered Gastrointestinal Motility in a Mouse Model of Multiple Sclerosis E.T. Spear, B. Lavoie, A.M. Applebee, C. Teuscher and G.M. Mawe. Univ. of Vermont.


B615 1002.15 Changing Tongue Depressor Position between Rat Incisors of Both Jaws Varies Gastric Motility M. Lorber. Georgetown Univ.


B619 1002.19 R-Type Calcium Channels Contribute to Colonic Inhibitory Neuromuscular Transmission E. Rodriguez-Tapia and J. Galligan. Michigan State Univ.

B620 1002.20 R-Type Ca2+ Channels Contribute to Neural Control of Murine Colonic Motility L.R. Skylis, J.J. Galligan and E.S. Rodriguez-Tapia. Michigan State Univ.

1003. GI AND LIVER EPITHELIAL JUNCTIONS

Poster

TUES. 7:30 AM — BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM – 3:00 PM

B621 1003.1 Intestinal Tight Junction CLDN2 Gene Is a Direct Target of the Vitamin D Receptor Y-g. Zhang, S. Wu, R. Lu, D. Zhou, J. Zhou, E. Petrof, E. Claud and J. Sun. Rush Univ.; Univ. of Rochester; Kansas City Univ. of Med. and Biosci.; Queen’s Univ., Canada and Univ. of Chicago.

1004. LIVER PHYSIOLOGY AND PATHOPHYSIOLOGY

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM—3:00 PM


B625 1004.3 eNOS Deficiency Increases Susceptibility to Western Diet-Induced Hepatic Mitochondrial Dysfunction R.D. Sheldon, M.A. Linden, G.M. Meers, E.M. Morris, M.H. Laughlin and R.S. Rector. Harry S Truman Mem. VA Hosp. and Univ. of Missouri-Columbia.


B627 1004.5 Kupffer Cell p38 MAPK Drives Hepatic Damage and Pulmonary Inflammation after Intoxication and Burn Injury M.M. Chen, E.B. O'halloran and E.J. Kovacs. Loyola Univ. Chicago, Maywood.

B628 1004.6 Liver Specific Knockout of Biliverdin Reductase-A (BVRA) Enhances High Fat Diet-Induced Hepatic Steatosis and Type II Diabetes in Mice A. Alamodi, P. Hosick, H. Drummond, T. Hinds and D. Stec. Univ. of Mississippi Med. Ctr. and Univ. of Toledo Col. of Med.


1005. METABOLIC DISEASE: GI AND LIVER FUNCTION

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM—3:00 PM


1006. MICROBES AND NUTRITION

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM—3:00 PM


1007. MICROBIOME OF THE GI TRACT

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM—3:00 PM


B639 1007.2 Genetic Variation in SLC30A2 and Associated Alterations in Enteric Microbiota in Preterm Infants M. Hamidi, A.B. Podany, S. Alam, M.C. Santos, C.J. Gallagher, M. Vijay-Kumar, J. Wright, R. Lamendella and S.L. Kelleher. Penn State Hershey Med. Ctr. and Juniata Col., PA.


1008. NUCLEAR RECEPTORS IN THE LIVER AND GI TRACT

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B642 1008.1 Endogenous Glucocorticoids Regulate Hepatic Inflammation and Apoptosis in a Sexually Dimorphic Manner
M.A. Quinn and J.A. Cidlowski. NIEHS, NIH, Research Triangle Park.

1009. NUTRIENT METABOLISM IN THE GUT

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B643 1009.1 Marked Hyperfructosemia without Fructose-Induced Hyperglycemia and Diabetes in Fructokinase-Deficient Mice

1010. PREBIOTICS, PROBIOTICS AND GUT FUNCTION

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B644 1010.1 Administration of Probiotics Normalizes Deficits in the Microbiota-Gut-Brain Axis Induced by DSS-Colitis
K. Huynh, J. Emge, C. Reardon, K.E. Barrett and M.G. Gareau. UCSD and Univ. of California, Davis.
B645 1010.2 Glycomacropeptide Shows Prebiotic and Immune Modulating Properties in Phenylketonuria and Wild Type Mice
B646 1010.3 Lactobacillus rhamnosus Cultured Milk Isolate May Reduce Adipogenesis
J. Kotala and E.M. Onyango. East Tennessee State Univ.
B647 1010.4 Effects of Probiotic VSL#3 on Cytokine and Tight Junction Protein Expression in Intestinal Epithelial Cells
L. Stewart, B. Crumley and K.L.W. Walton. Missouri Western State Univ.

1011. METAL ION TRANSPORT

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B648 1011.1 The Zinc Transporter ZnT2 Is Necessary for Stabilization of Granule Contents in Intestinal Paneth Cell Granules
B649 1011.2 Mechanisms of Ferritin Iron Mobilization in Macrophages and Hepatocytes
B650 1011.3 Mechanism of Copper Absorption Investigated in Caco2 and HuTu80 Enterocyte Models
B651 1011.4 Mechanism of Ceruloplasmin-Copper Uptake by, and Overexpression in, Mammalian Cells
B652 1011.5 Intestinal Divalent Metal-Ion Transporter-1 Is Required for Iron Homeostasis in the Neonatal Mouse

1012. CONTROL OF BREATHING: INTEGRATED RESPONSES

Poster
TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B653 1012.1 Effects of Serotonergic Activation on Respiratory Motor Recovery following Chronic Cervical Spinal Cord Injury
B654 1012.2 Inactivity-Induced Phrenic Motor Facilitation following Intermittent, but not Sustained, Neural Apnea Requires Retinoic Acid and Protein Synthesis
N.A. Baertsch and T.L. Baker-Herman. Univ. of Wisconsin-Madison.
B655 1012.3 Confronting the Effects of 0.9% Saline Administration on Breathing
T.G. Glausen, C.M. Cunningham and L.R. DeRuisseau. Le Moyne Col., NY.
B656 1012.4 D1 Dopamine Receptor Modulation of Breathing in Young Hypothyroid Female Hamsters
B657 1012.5 Cortical Activation Patterns in Response to Respiratory Transient Occlusions P-Y.S. Chan, Y-J. Ju and Y-J. Wu. Chang Gung Univ., Taiwan.


B666 1012.14 Specific Role of Membrane Progesterone Receptors α and β on Ventilation during Sleep in Female Mice R. Boukari, O. Rossignol, F. Marcouiller, A. Bairam and V. Joseph. Univ. Laval, CHU de Québec.

B667 1012.15 Contribution of Membrane Progesterone Receptors α and β to Ventilatory Chemoreflex in Female Mice R. Boukari, O. Rossignol, F. Marcouiller, A. Bairam and V. Joseph. Univ. Laval, CHU de Québec.


B671 1012.19 Differential Effects of Systemic versus Intratracheal Lipopolysaccharide Administration on Ventilatory Behavior in Spontaneously Breathing Adult C57BL/6 Male Mice M.S. Ahmad, M. Hyder, K.T. Rice, J.E. Conyers and I.C. Solomon. Stony Brook Univ.

B672 1012.20 Time Course of Altered Ventilatory Activity Evoked by Intratracheal Lipopolysaccharide (LPS) Administration in Spontaneously Breathing Adult C57BL/6 Male Mice K.T. Rice, M.S. Ahmad, M. Hyder, J.E. Conyers and I.C. Solomon. Stony Brook Univ.

B673 1012.21 Time Course of Altered Ventilatory Activity Evoked by Systemic Lipopolysaccharide Administration in Spontaneously Breathing Adult C57BL/6 Male Mice M. Hyder, J.E. Conyers, M.S. Ahmad, K.T. Rice and I.C. Solomon. Stony Brook Univ.

B674 1012.22 Intratracheal Lipopolysaccharide Administration Attenuates Acute Hypoxic Ventilatory Response in Spontaneously Breathing Adult C57BL/6 Male Mice J.E. Conyers, K.T. Rice, M.S. Ahmad, M. Hyder and I.C. Solomon. Stony Brook Univ.

1013. CONTROL OF BREATHING: RESPIRATORY MOTOR NEURONS AND MUSCLES

Poster

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER,
EXHIBIT HALLS A & B

Presentation time: 12:45 PM—3:00 PM


B681 1013.7 Regional Genioglossus EMG Highlights Persistent Daytime Activation in OSA J.R. Vranish and E.F. Bailey. Univ. of Arizona.

B682 1013.8 Coordination of the Respiratory Muscles in Hypercapnic and Hypoxic Environments S. Jenkin and W.K. Milsom. Univ. of British Columbia.

1014. LUNG BIOLOGY: AIRWAY EPITHELIAL CELL BIOLOGY

Poster

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B683 1014.1 Role of Mucin 5ac in Murine Airways H-Y. Cho, L. Miller-DeGraff, S. Park, H-C. Lao, R. Langenbach and S.R. Kleeberger. NIEHS, NIH, Research Triangle Park.


B685 1014.3 Tight Junction Protein Expression and Junction Development during Differentiation of Normal Human Bronchial Epithelial Cells N.A. Zaidman, A. Panoskaltsis-Mortari and S.M. O’Grady. Univ. of Minnesota, St. Paul and Univ. of Minnesota, Minneapolis.


B687 1014.5 Na⁺ Transport by Small Airway Surface Epithelia N. Greshchenko, X. Luan and J. Ianovski. Univ. of Saskatchewan.

1015. LUNG BIOLOGY: ERAD, AUTOPHAGY, AND MITOPHAGY: CELLULAR QUALITY CONTROL IN THE LUNG

Poster

TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B

Presentation time: 12:45 PM–3:00 PM

B688 1015.1 The Unfolded Protein Response Regulates Apoptosis of Alveolar Epithelial Cells by Modulating Autocrine Angiotensin (ANG)II and ANG1-7 H. Nguyen, M. Dang, S. Ono, K. Morimoto and B.D. Uhal. Michigan State Univ. and Nagasaki Univ.


B692 1015.5 Protein Quality Control in Alveolar Type 2 Cells: The Proteasome Is Essential for Control of Aggregation-Prone SP-C Mutations A. Hawkins, L.W. Gonzales, S.H. Guttentag, S. Mulugeta and M.F. Beers. Univ. of Pennsylvania and Vanderbilt Univ.

B693 1015.6 Akt-Mediated Mitochondrial Oxidative Stress Induces Mitophagy and Development of Pulmonary Fibrosis J.L. Casey, A.J. Ryan, S. Murthy and A.B. Carter. Univ. of Iowa and Iowa City VA Ctr.

B694 1015.7 The Lung Macroautophagy Substrate Proteome: A Systems Biology Analysis J. Haspel, S. Chettimada, B. Lane and A. Choi. Washington Univ. Sch. of Med.; Dana-Farber Cancer Ctr. and Harvard Univ.
**1016. LUNG PHYSIOLOGY: ALVEOLAR FUNCTION AND BIOMECHANICS**

**Poster**

*TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B*

*Presentation time: 12:45 PM—3:00 PM*


---

**1017. LUNG PHYSIOLOGY: DEVELOPMENT AND PLASTICITY**

**Poster**

*TUES. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALLS A & B*

*Presentation time: 12:45 PM—3:00 PM*


B701  **1017.3**  Mice Deficient in the Src Family Tyrosine Kinase yes Are Protected from Hyperoxia-Induced Lung Injury L.D. Nelin, Y. Jin, Y. Liu, L.G. Chicoine and B. Chen. Nationwide Children's Hosp. and The Ohio State Univ.

B702  **1017.4**  Maternal Tobacco Smoke Exposure Alters Elastin Splicing at Exon 7 and 34 in the Lung of Rat Pups A. Sainz, C. Zou, J. Zhao, Y. Wang, K. Albertine and L. Joss-Moore. Univ. of Utah.

B703  **1017.5**  Feasibility of Stent Fracture and Expansion in the Palliation of Branch Pulmonary Artery Stenosis M. Bates, K. Hembrook, J. Smith, P. Anagnostopoulos and L. Lamers. Univ. of Iowa and Univ. of Wisconsin-Madison.

B704  **1017.6**  Long-Term Differences in Lung Morphology in a Rat Model of Bronchopulmonary Dysplasia T. Shuster, K. Haraldsdottir, A. Kleinertz and M. Eldridge. Univ. of Wisconsin-Madison.

---

Join Us Next Year!

Experimental Biology 2016

April 2 – April 6
San Diego, CA

www.experimentalbiology.org

American Association of Anatomists (AAA)
The American Physiological Society (APS)
American Society for Biochemistry and Molecular Biology (ASBMB)
American Society for Investigative Pathology (ASIP)
American Society for Nutrition (ASN)
American Society for Pharmacology and Experimental Therapeutics (ASPET)
PATHOLOGY/PHARMACOLOGY

WEDNESDAY, APRIL 1

Pathology

1018. REGENERATIVE MEDICINE AND STEM CELLS

Poster

Wed. 7:30 am—Boston Convention & Exhibition Center, Exhibit Hall B

Presentation time: 11:45 am–1:45 pm

W300 1018.1 Identification of Novel Interferon Stimulated Genes in Differentiated Hepatocytes Differentiated D. Contreras, J. Ignatius Irudayam, R. Songyang, Q. Nguyen, S. French, V. Funari and V. Arumugaswami. Cedars-Sinai and UCLA.


Pharmacology

1019. DRUG ABUSE: NICOTINE, OPIOIDS, CANNABINOIDS, ETC.

Poster

Wed. 7:30 am—Boston Convention & Exhibition Center, Exhibit Hall B

Presentation time: 12:30 pm–2:30 pm


W307 1019.3 The Discriminative Stimulus Effects of Nicotine, Epibatidine, and Varenicline in Mice: Involvement of j22 Containing Nicotinic Acetylcholine Receptor Subtypes F.B. Moura and L.R. McMahon. Univ. of Texas Hlth. Sci. Ctr. at San Antonio.


W309 1019.5 Characterization of a Nicotine Discriminative Stimulus in Rhesus Monkeys M.J. Moerke and L.R. McMahon. Univ. of Texas Hlth. Sci. Ctr. at San Antonio.

W310 1019.6 Investigation of Sex Differences in Neurotensin following Nicotine Self-Administration S.T. Pittenger, M.D. Smith, A.J. Hoonakker, G.R. Hanson, A.E. Fleckenstein and R.A. Bevins. Univ. of Nebraska-Lincoln and Univ. of Utah.


W312 1019.8 Female Rats Are More Sensitive to Enhanced Reinstatement of Alcohol Seeking following Exposure to Both Alcohol-Related Cues and Yohimbine M.L. Bertholomey and M.M. Torregrossa. Univ. of Pittsburgh.

W313 1019.9 Effect of Dopamine D1 Receptor Activation on Extinction of Morphine CPP K. Kobrin, D. Arena, S. Heinrichs and G. Kaplan. VA Boston Healthcare Syst. and Boston Univ.


W316 1019.12 Effect of GABA\textsubscript{A} Partial Inverse Agonists on Drug-Facilitated ICSS Reward M.E. Tracy and K.L. Shelton. Virginia Commonwealth Univ.


W319 1019.15 The Effects of Norbinaltorphimine Preexposure on THC-Induced Place and Taste Avoidance in Sprague-


1020. ALCOHOL AND LIPID BIOLOGY

Poster

Wed. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALL B

Presentation time: 12:30 PM–2:30 PM


W322 1020.2 Effect of Cocaine and p21 on the Blood Lipidome N.E. Scholpa, S. Sahin, J.J. Wagner and B.S. Cummings. Univ. of Georgia and Univ. of Cumhuriyet, Turkey.


W324 1020.4 FGF21 Mediates Alcohol-Induced Adipose Tissue Lipolysis by Activation of Systemic Release of Catecholamine in Mice C. Zhao, L. Liu, M. Mohammadi, C. McClain and W. Feng. Univ. of Louisville and NYU Lagone.


W326 1020.6 Chronic-Binge Alcohol-Induced Hepatic Injury and Inflammation Were Ameliorated in Mice Deficient for Transient Receptor Potential Vanilloid 1 Gene I. Kirpich, K.C. Falkner, J. Beier, G. Arteel and C. McClain. Univ. of Louisville.

W327 1020.7 Sex- and Drinking History Dysregulate ω-3 and ω-6 Pathways during the Onset of Liver Injury in Very Heavy Drinking Alcohol Dependents M. Song, V. Vatsalya, M. Schwandt, S. Barve, M. Cave, D. George and C. McClain. Univ. of Louisville and NIAAA, NIH.


W329 1020.9 Acute Alcohol Treatment and Cardiac Dysfunction in Obese Diabetic Mice: Role of PDE5 and MicroRNA-21 A. Samidurai, F.N. Salloum, L. Xi, A. Das and R.C. Kukreja. Virginia Commonwealth Univ.

W330 1020.10 Micelle Sequestrant Polymers as Novel Therapeutics to Treat Obesity B.P. Sullivan, J. Qian and C. Berkland. Univ. of Kansas.

1021. ION CHANNEL PHARMACOLOGY

Poster

Wed. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALL B

Presentation time: 12:30 PM–2:30 PM

W331 1021.1 Characterization of Neurons Derived from a Human Induced Pluripotent Stem Cell Line Using Patch-Clamp Electrophysiology K.L. Metz, W.S. Cao, L. Coyne and R.F. Halliwell. Univ. of Pacific Sch. of Pharm. and California Northstate Col. of Pharm.

W332 1021.2 Activation of Voltage-Gated Sodium Channels with Brevetoxin-2 (PbTx-2) Increases Dendritic Spine Density in Murine Organotypic Hippocampal Slice Culture D.A. Gomez and T. Murray. Creighton Univ.

W333 1021.3 Regulation of the Sodium-Activated Potassium Channel Slack by MAGI-1 K. Pryce, D. Agwa, D. Tomaszelo and A. Bhattarcharjee. SUNY at Buffalo.


1022. NOVEL DRUG TARGETS

**Poster**

**Presentation time:** 12:30 PM—2:30 PM


W342 1022.2 New Selective Peptidyl Di(Chlorophenyl)-Phosphonate Esters to Visualize and Block Neutrophil Proteinase 3 in Human Diseases C. Guarino, M. Legowska, D.E. Jenne, A. Lesner, F. Gauthier and B. Korkmaz. INSERM U1100, Tours; Univ. of Gdansk, Poland and Inst. of Lung Biology and Dis. (iLBD)


W345 1022.5 GPSM3 as a Therapeutic Target for Rheumatoid Arthritis B.J. Gall, V. Setola, C. Watkins and D.P. Siderovski. West Virginia Univ.


1023. GENERAL TOXICOLOGY

**Poster**

**Presentation time:** 12:30 PM—2:30 PM


W350 1023.2 Effects of Aqueous Extracts of the Leaves of *Milletia abenosia* on the Liver of Wistar Albino Rats B.M. Onyegeme-Okerja. Univ. of PortHarcourt, Nigeria.

W351 1023.3 Toxicological Study of β-HPC and Innovative Potential Drug for Metabolic Syndrome B. Mendoza-Rivera, J. Reyes-Esparza, R. De la Cruz-Codero and L. Rodriguez-Fragoso. Autonomous Univ. of State of Morelos, Cuernavaca and Nucitec SA de CV, Queretaro, Mexico.

W352 1023.4 Systems Biology Tools and Data for a Better Understanding of Mechanisms of Toxicity S. Boue. Philip MorrisIntl., Neuchâtel, Switzerland.


W356 1023.8 A New Co-micronized Composite Including Palmitoylthanolamide and Polidomytrol Shows a Superior Efficacy Compared to the Simple Association on In Vivo and In Vitro Models of Inflammation. R. Siracusa, G. Bruschetta, D. Impellizzeri, E. Esposito and S. Cuzzocrea. Univ. of Messina and Saint Louis Univ.


1024. OCULAR TOXICITY

Poster

**Presentation time:** 12:30 pm–2:30 pm


**W365** 1024.5 Assessment of Active Metabolites of Levobunolol and Betaxolol in Rat, Rabbit and Human Ocular and Liver S9 Fractions J.L. Bushee, U.A. Argikar and C.E. Dunne. Novartis and Colorado State Univ.


1025. CARDIAC PHARMACOLOGY – SIGNALING

Poster

**Presentation time:** 12:30 pm–2:30 pm

**W367** 1025.1 Calibration of an in silico Human Ventricular Action Potential Model to Detect Proarrhythmic Liabilities J. Green, J.D. Sutherland and G. Gintant. AbbVie, North Chicago.

**W368** 1025.2 Identification of Protein Complexes in mAKAP Signosome by Mass Spectrometry S. Suryavanshi, S. Singh, S. Bark and B. McConnell. Univ. of Houston.

**W369** 1025.3 Absence of Gravin Scaffolding to the β2-AR Protects against Heart Failure and Its Protective Effects Are Additive to Carvedilol Treatment Alone S. Singh, S. Suryavanshi, A. Diaz Diaz and B. McConnell. Univ. of Houston.

**W370** 1025.4 Cardiac Myocyte-Specific Overexpression of Caveolin-3 Enhances Physiological Response to β-Adrenergic Receptors A.R. Busija, J.M. Schilling, D.M. Roth, P.A. Insel and H.H. Patel. UCSD.


**W379** 1025.13 Neuronal Na+- Channels as a Novel Cardiac Antiarrhythmic Target P. Radwanski, L. Brunello, B. Knollmann and S. Gyorke. The Ohio State Univ. and Vanderbilt Univ. Sch. of Med.


**W382** 1025.16 EHD2 Stabilizes the Surface Expression of Cardiac KATP Channels and Protects against Ischemic Injury M. Foster, K. Jana, L. Bergman, E. Pennergård, M. Örberg, T. Neubert and W. Coetzee. NYU Sch. of Med.
1026. CARDIOVASCULAR ISCHEMIA AND REPERFUSION

Poster

Wed. 7:30 am—Boston Convention & Exhibition Center, Exhibit Hall B

Presentation time: 12:30 PM–2:30 PM


W390 1026.6 The Cardioprotective Effect of Dexamethasone through Activation of RISK Pathway Y. Ma, J. Wang, G. Techiryan, W. Sun, Y. Wang and J. Li. Univ. at Buffalo, SUNY.

W391 1026.7 TUG Mediates GLUT4 Translocation by AMP-Activated Protein Kinase in the Heart Y. Ma, J. Wang, Y. Wang, J. Bogan and J. Li. Univ. at Buffalo and Yale Univ.


W393 1026.9 The Yin and Yan of Adenosine A1 and A2A Receptors in Global Cerebral Ischemia Reperfusion Injury R.M. Atef, A.M. Agha and N.N. Nassar. Fac. of Pharm., Cairo Univ.
**Physiology**

1028. HISTORY OF PHYSIOLOGY

**Poster**

_WED. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALL B_

_Presentation time: 12:30 PM–2:15 PM_

W1 1028.1 Unholy Fire: Discovering Michael Servetus’ Contribution to Pulmonary Physiology through Modern Historical Fiction **S.P. Didion.** Univ. of Mississippi Med. Ctr.

1029. BIOMEDICAL ENGINEERING

**Poster**

_WED. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALL B_

_Presentation time: 12:30 PM–2:15 PM_

W2 1029.1 A Simulated Cell Reprogramming from a Pharmacological Perspective **M. Nadal-Quiros, L.C. Moore and M. Marcano.** Univ. of Puerto Rico and Stony Brook Univ. Med. Ctr.

W3 1029.2 Synaptopodin Couples Epithelial Apical Contractions to Adherens Junction Maturation **V. Tang.** Univ. of Illinois at Urbana-Champaign.

W4 1029.3 Tensile Loading Induces Translational Signaling in Peripheral Nerve **S.B. Shah, J.M. Love and R.M. Lovering.** UCSD; Univ. of Maryland College Park and Univ. of Maryland Baltimore.

W5 1029.4 Substrate Stiffness and Microtopography in PIP2 Regulation of the Actin Cytoskeleton in Primary Cardiac Fibroblasts **M. Mrktschjan, J. Li and B. Russell.** Univ. of Illinois at Chicago.

W6 1029.5 Visualization of Physiological Oscillations with Eulerian Video Magnification **J.L. Smith, C. Haselby, K.P. Heinking and K.K. Henderson.** Midwestern Univ., IL.

W7 1029.6 Phosphorylation of Myosin Light Chain Is Mitochondrial ATP Dependent and Rho-Kinase Independent during Fluctuation-Driven Mechanotransduction **E. Bartolak-Suki and B. Suki.** Boston Univ.

W8 1029.7 Shear Stress Induces G Protein-Coupled Receptor-Independent HeterotrimERIC G Protein Activation in Endothelial Cells **N.G. dela Paz, B. Melchior and J.A. Frangos.** La Jolla Bioengin. Inst.

W9 1029.8 Platelets Attenuate Endothelial Cell’s Dynamic Shear Stress-Induced Activation **D. Meza, D.A. Rubenstein and W. Yin.** Stony Brook Univ.


W11 1029.10 ZF143 Enhances Zebrafish Heart Regeneration and Improves Mouse Heart Function after an LAD Injury **V. Yin, A. Smith, H. Roberts and H. Carlisle.** MDI Biol. Lab., Bar Harbor, ME and Tufts Univ.


W14 1029.13 Revisiting the Promethean Dream: The Role of Activation-Induced Cytidine Deaminase in the Induction to Pluripotency **R. Chakraborty and J. Chaudhuri.** Syosset H.S., NY and Mem. Sloan-Kettering Cancer Ctr.

W15 1029.14 Circulating Cells Contribute to Cardiac Regeneration in the Axolotl **H. Lauridsen and M. Pedersen.** Aarhus Univ., Denmark.

W16 1029.15 Spine Fusion Using a Soft Elastomeric Nanofibrous Composite of Collagen, Poly(1,8-Octanediol-Citrinate) and Chondroitin 6-Sulfate **W.D. Wagner, M. Morykwas, L. Argenta, D. Campbell and R. Wang.** Wake Forest Sch. of Med.

W17 1029.16 The Calcium-Activated Chloride Channel, Anoctamin-1, Is a Critical Regulator of Proliferation in Amphibian Tail Regeneration and This Effect Is Mediated via p44/42 MAPK Phosphorylation **B.M. Franklin, S.R. Voss and J.L. Osborn.** Univ. of Kentucky.

W18 1029.17 GATA4-Controlled HDAC1/HDAC2-Regulated Cardiogenesis of Mesenchymal Stem Cells **M. Wang, L. Wang, Q. Yu and M. Turrentine.** Indiana Univ. Sch. of Med.


W20 1029.19 Polyvinylpyrrolidone Can Be Used to Cost-Effectively Increase the Viscosity of Culture Media **S.G. Denniss and J.W.E. Rush.** Univ. of Waterloo, Canada.

1030. LUNG BIOLOGY: AIRWAY RESPONSIVENESS AND SMOOTH MUSCLE CELL BIOLOGY

**Poster**

_WED. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALL B_

_Presentation time: 12:30 PM–2:15 PM_

W21 1030.1 Inhalation of Hydrogen Sulfide (H2S) Augments the Pulmonary Reflexes **C.C. Hsu, C-Y. Yu and Y-S. Lin.** Col. of Med., Taipei Med. Univ.

W22 1030.2 Vitamin D Attenuates TNFα-Induced Chemokine Production in Developing Human Airway Smooth Muscle Cells **R.D. Britt, Jr., A. Faksh, E.R. Vogel, M.A. Thompson, H. Pandya, Y. Amrani, C.M. Pabelick and Y.S. Prakash.** Mayo Clin. and Univ. of Leicester.

1031. LUNG PHYSIOLOGY: REGULATION OF PULMONARY VASCULAR TONE

Poster

Wed. 7:30 AM—Boston Convention & Exhibition Center, Exhibit Hall B

Presentation time: 12:30 PM–2:15 PM


W31 1031.3 Role of PTEN in Hypoxic Pulmonary Vasoconstriction A. Krauszman and W.M. Kuebler. St. Michael’s Hosp. and Univ. of Toronto.

W32 1031.4 Loss of PPARY Activates ERK 1/2-NF-kB-NOx4-H₂O₂-Signaling Axis to Promote Human Pulmonary Artery Smooth Muscle Cell Proliferation K.M. Bilji, J.M. Kleinharn, T.C. Murphy, B-Y. Kang, S.E. Adesina, R.L. Sutliff and C.M. Hart. Atlanta VA and Emory Univ. Med. Ctrs.


W51 1032.10 Serotonergic Modulation of Locus coeruleus Neurons in the Newborn Rat V. Biancardi, T.S. Alvares, L.H. Gargagliani and G.D. Funk. Univ. of Alberta and São Paulo State Univ.

W52 1032.11 Serotonergic Antagonism in the Retrotrapezoid Nucleus Prevents the Expiratory Long-Term Facilitation Induced by Acute Intermittent Hypoxia E.V. Lemes, E. Colombari and D.B. Zoccal. Sch. of Dent. of Araraquara, São Paulo State Univ.


W55 1032.14 Developmental Nicotine Exposure Results in Exaggerated Response to AMPA Receptor Activation in Hypoglossal Motoneurons in Neonatal Rats M. Cholanian, R.B. Levine and R.F. Fregosi. Univ. of Arizona Col. of Med. and Univ. of Arizona.


1033. CONTROL OF BREATHING: EVOLUTION OF AIR BREATHING

Poster

WED. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALL B

Presentation time: 12:30 PM—2:15 PM


W60 1033.4 Turn (on) Your Head and “Cough”: Evolution of Lung Breathing from a Lungless Primitive Vertebrate M.B. Harris, M. Hoffman and B.E. Taylor. Univ. of Alaska Fairbanks.


W63 1033.7 Oscillating Wildly: Turning the Evolution of Respiratory Rhythm Generation on Its Head M. Baghdadwala, W. Trask and R.J. Wilson. Univ. of Calgary, Canada.

1034. CONTROL OF BREATHING: RHYTHM GENERATION

Poster

WED. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALL B

Presentation time: 12:30 PM—2:15 PM


1035. CIRCADIAN CLOCK IN METABOLIC REGULATION

Poster
WED, 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALL B

Presentation time: 12:30 PM–2:15 PM

W68 1035.1 Transcriptional Control of Oscillatory Homocysteine Homeostasis by Nuclear Receptor SHP Z. Yang, S. Lee and L. Wang, Univ. of Connecticut.

W69 1035.2 Tissue-Specific Abundance of NAMPT, CLOCK, and BMAL1 Proteins in Murine Tissues A.C. Lupolt and J. Brandauer, Gettysburg Col.

W70 1035.3 Cardiomyocyte-Specific Bmal1 Deletion Triggers Extracellular Matrix Response Associated with Markers of Impaired Inflammation Resolution and Diastolic Dysfunction K.A. Ingle, V. Kain, M. Goel, S.D. Prabhu, M.E. Young and G.V. Halade, Univ. of Alabama at Birmingham.

W71 1035.4 Contribution of PPARγ and Ketone Body to Sleep Homeostasis in Mice S. Chikahisa, N. Shimizu, T. Shiuchi and H. Sei, Univ. of Tokushima Grad. Sch.

1036. MITOCHONDRIAL FUNCTION

Poster
WED, 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALL B

Presentation time: 12:30 PM–2:15 PM

W72 1036.1 Mitochondrial-Derived Vesicle Formation in Cardiac Mitochondrial Quality Control V.J. Cadete, S. Deschénes, A. Cuillerier, M. Picard, H. McBride and Y. Burelle, Univ. of Montreal; Children’s Hosp. of Philadelphia and Univ. of Pennsylvania and McGill Univ.

W73 1036.2 Histopathology and Mitochondrial Function in Liver-Specific LRPPRC Knockout Mice A. Cuillerier, V.J. Cadete, S. Deschénes, Y. Burelle and LSFC Consortium, Univ. of Montreal.


W76 1036.5 The Effect of Succinate on Skeletal Muscle Respiration in Diet-Induced Obesity and Insulin Resistance C. Slouc, D. Escudero, C. Sheridan, S. Legesse, S. Lagalwar, T.H. Reynolds and S.J. Ives, Skidmore Col., NY.


1038. MUSCLE DISEASES

Poster

WED. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALL B

Presentation time: 12:30 PM–2:15 PM


W94 1037.7 Effects of Burn and Disuse with Resistance Exercise on Free Fatty Acids and Fibroblast Growth Factor-21 in Rats L.A. Baer, J. Song, K.I. Stanford, S.E. Wolf and C.E. Wade. Univ. of Texas Hlth. Sci. Ctr. at Houston; Univ. of Texas Southwestern Med. Ctr. and Joslin Diabetes Ctr., Boston.

1038. MUSCLE DISEASES

Poster

WED. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALL B

Presentation time: 12:30 PM–2:15 PM


W96 1038.2 Elucidating the Role of Mineralocorticoid Receptors in Skeletal Muscle as a Potential Therapeutic Target for Duchenne Muscular Dystrophy J. Chadwick, J. Hauck, J. Lowe and J. Rafael-Fortney. The Ohio State Univ.

W97 1038.3 Circulating Branched Chain Amino Acids are Associated with Body Composition and Physical Function in Older Adults M.S. Lustgarten and R.A. Fielding. Tufts Univ. Boston.

W98 1038.4 Cardiosomes and Cardiac Remodeling: Role of Exercise P. Chaturvedi, A. Kalani and S.C. Tyagi. Univ. of Louisville.


W102 1038.8 Targeting Mechanically-Activated NOS Signaling in Dystrophic Cardiomyopathy J.F. Garbincius and D.E. Michele. Univ. of Michigan.


W106 1038.12 Therapeutic Targeting of Akt/mTOR Signaling in Fktn-Deficient Muscle S.J. Foltz, A. Patel, K.B. Peissig and A.M. Beedle. Univ. of Georgia.


1040. AUTOPHAGY AND MIRNA IN DIABETIC HEART FAILURE

Poster  
**WED. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALL B**

**Presentation time:** 12:30 PM–2:15 PM

W115  **1040.1** MiR-133a Mitigates Mitophagy in Ins2ΔC10=Tg Diabetic Heart. **S.S. Nandi** and P.K. **Mishra.** Univ. of Nebraska Med. Ctr.


W117  **1040.3** Incretin Ameliorates Diabetic Microangiopathy in Heart by Activation of Autophagy via PKA/AMPK Axis. **Y.K. Bando** and **A. Monji.** Nagoya Univ., Japan.

1041. BLOOD PRESSURE REGULATION II

Poster  
**WED. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALL B**

**Presentation time:** 12:30 PM–2:15 PM


W125  **1041.7** Loss of CD47 Attenuates Angiotensin II-Mediated Hypertension. **S.M. Mutchler**, **J.S. Isenberg** and **A.C. Straub.** Univ. of Pittsburgh.

1042. CARDIAC ELECTROPHYSIOLOGY II

Poster  
**WED. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALL B**

**Presentation time:** 12:30 PM–2:15 PM

W128  **1042.1** Electrical Disturbances in the Brain and Heart in Long QT Syndrome: A Dangerous Synergy. **D.S. Auerbach**, **S. McNitt**, **R. Dirksen** and **A. Moss.** Univ. of Rochester.


W130  **1042.3** Roles of Intracellular Free Zn2+ on Electrical and Mechanical Activities of the Heart. **S. Degirmenci**, **E. Tuncay** and **B. Turan.** Ankara Univ. Fac. of Med.


W132  **1042.5** Temperature Effects on the Chick Embryonic Heart Function. **F. Vostarek**, **J. Svatunkova** and **D. Sedmera.** Acad. of Sci., Prague and Charles Univ. in Prague.


1043. CARDIAC FUNCTION AND DYNAMICS III

Poster  
**WED. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALL B**

**Presentation time:** 12:30 PM–2:15 PM

W134  **1043.1** Differential Effects from Pharmacological and Electrical Stimulation of Rabbit Cardiac Ganglia. **K.E. Brack.** Univ. of Leicester, U.K.


W136  **1043.3** Cardiac Output Is Improved in Rats with Myocardial Infarction by Enhancement of Respiratory Sinus Arrhythmia. **E.L. O’Callaghan**, **R.M. Latoar, L. Zhao, A. BenTal, A.R. Negaret** and **J.F.R. Paton.** Sch. of Physiol. and Pharmacol., Univ. of Bristol; Univ. of Bath; Univ. of São Paulo and Massey Univ., New Zealand.
1044. DIABETES AND INSULIN RESISTANCE III

Poster
WED. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALL B

Presentation time: 12:30 PM–2:15 PM


W149 1044.2 Rac1 as a Potential Candidate for Improved Insulin Sensitivity following Exercise S. Sheikh and K. Yamazaki. California State Univ. Los Angeles.


W153 1044.6 Aerobic Exercise Training Does Not Improve Body Composition or Glycemic Control in Type 2 Diabetic Rats with Pulmonary Hypertension J.I. Baum, N. Smith-Blair, W.W. French, T.A. Washington and N.P. Greene. Univ. of Arkansas.

W154 1044.7 Effects of Caffeine and Caffeine-Containing Kolanut (Cola nitida seed) on Glucose Tolerance of the Rat A. Alada and O. Afolabi. Univ. of Ibadan, Nigeria.


W156 1044.9 Effects of Epicatechin on AMPK, GLUT4 and TNF-α in the Onset of Type 2 Diabetes N. Gonzalez and K. Go Yamazaki. California State Univ., Los Angeles.
1046. FREE RADICAL SIGNALING AND OXIDANT STRESS/INJURY II

**Poster**

**Presentation time:** 12:30 PM – 2:15 PM


W171 1046.7 Compartimentalization of ClC-3 and TNF-Induced Superoxide Production M. Bacon, H-N. Nguyen, H. Choi, N. Ettinger and F.S. Lamb. Vanderbilt Univ.

W172 1046.8 Role of Oxidative Stress and Tetrahydrobiopterin Synthesis on eNOS Catalyzed Nitric Oxide and Superoxide Production: A Computational Analysis S. Joshi, S. Kar and M. Kavdia. Wayne State Univ.

W173 1046.9 Post-weaning Western Style Diet Leads to Increased Activity of Complex IV of Non-human Primates When Exposed to Western Style Diet In Utero S.F. Macrorie, M.C. Wilcox, B. Hetrick and C.E. McCurdy. Univ. of Oregon.


1047. GENETICS AND CARDIOVASCULAR FUNCTION

**Poster**

**Presentation time:** 12:30 PM – 2:15 PM


W180 1047.6 Role of Increased Serine1176 Phosphorylation in Maintaining Normal Endothelial Responses in Male and Female Heterozygous Endothelial Nitric Oxide Synthase-Deficient Mice S.P. Didion. Univ. of Mississippi Med. Ctr.

W181 1047.7 Assessment of Cardiac Function Using Pressure Volume Loops in Rbm20-/- Rats A. Sanchez Walk, D. De Loera, L. Bosch, W. Guo, J. Ren and H.G. Chew. Western Wyoming Col. and Univ. of Wyoming.

1048. HYPERTENSION III

**Poster**

**Presentation time:** 12:30 PM – 2:15 PM


W184 1048.3 Activation of Cardiac P2X Receptors in Hypertensive Rats Displays Exaggerated Sympathoexcitatory Reflexes L-W. Fu and J. Longhurst. Univ. of California, Irvine.


W187 1048.6 Angiotensin II-Induced Erectile Dysfunction Prevented by Bradykinin B1 Receptor Antagonism B. McCormick, J-E. Huot-Marchand, C. Carrol, S. Carrier, D. deBlos and T.M. Hale. Univ. of Arizona Col. of Med.-Phoenix; Univ. of Montreal; Midwestern Univ., AZ and McGill Univ.


W189 1048.8 Sympathetic Nerve Activity and Blood Pressure Responses to Elevations in Intracranial Pressure – Cushing’s Mechanism in Conscious Normotensive and Spontaneously Hypertensive Rats F.D. Mcclyre, S.C. Malpas and J.F.R. Paton. Univ. of Auckland and Univ. of Bristol.


1049. MYOCARDIAL ISCHEMIA/METABOLISM III

Poster


W193 1049.2 The Effect of Dobutamine on Susceptibility to Ischemia-Induced Ventricular Fibrillation in the Isolated Rat Heart H. Clements-Jewery and J. Haines. West Virginia Sch. of Osteo. Med.

W194 1049.3 Inhibition of cGMP Degradation Contributes to the Cardioprotective Effect of Resveratrol on Ischemia/Reperfusion Injury J. Xi, S. Fei and Z. Xu. Hebei United Univ. and Tianjin Med. Univ., China.

W195 1049.4 Substrate Utilization Effects on Shortening Properties in Aging Cardiac Myocytes G. Barton, J. Aiken and G. Diffey. Univ. of Wisconsin-Madison and Univ. of Alberta.

W196 1049.5 Exposure to Diesel Exhaust Particles Drive Expansion of Cardiac Ischemia-Reperfusion Injury via Interleukin-6 Trans-Signaling in Male Sprague-Dawley Rats N.A. Holland, G.S. Harris, R.M. Lust and C.J. Wingard. East Carolina Univ.

W197 1049.6 Effect of Different Exercise Modes on Aldosterone and Sodium Retention in Rats with Myocardial Infarction E.A. Wason and J.Q. Zhang. Univ. of Texas at San Antonio.

W198 1049.7 Alterations in Mitochondrial Morphology with Age-Associated Estrogen Deficiency and Ischemia-Reperfusion Injury N. Aurigemma, A. Garvin and D. Korzick. Penn State.

W199 1049.8 Regional Oxidative Stress Disrupts the Normal Propagation of Voltage Waves and Promotes Reentry in Monolayers of Cardiac Myocytes S. Soljhoo and B. O’Rourke. Johns Hopkins Univ.


1050. SKELETAL MUSCLE ANGIOGENESIS

Poster

W201 1050.1 Conditional VEGF Gene Deletion in Both Endothelial Cells and Skeletal Myofibers Leads to Exercise Intolerance Accompanied by a Decrease in Body Mass and Cardiac Enlargement A. Sulaeman, J. Fine, P.D. Wagner and E.C. Breen. UCSD.


W204 1050.4 Hyperhomocysteinemia Causes Mitochondrial Dysfunction and Epigenetic Modifications Leading to Skeletal Muscle Weakness S. Veeranki, L.J. Winchester and S.C. Tyagi. Univ. of Louisville.


1051. SYSTEMIC AND PULMONARY VASCULAR FUNCTION AT HIGH ALTITUDE/HYPOXIA: LEARNING FROM MALADAPTATIONS

Poster

WED. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALL B

Presentation time: 12:30 PM–2:15 PM


1053. SYMPATHETIC CONTROL OF THE VASCULATURE IN CLINICAL POPULATIONS

Poster

Wed. 7:30 am—Boston Convention & Exhibition Center, Exhibit Hall B

Presentation time: 12:30 pm–2:15 pm


W226 1053.3 Augmentation of Endothelium-Dependent Vasodilatory Signaling Improves Functional Sympatholysis in Contracting Muscle of Older Adults C.M. Hearn, Jr., M.L. Racine, J.C. Richards, G.J. Luckasen, D.G. Larson and F.A. Dinenno. Colorado State Univ. and PVHS, Loveland, CO.


1054. NEURAL CONTROL OF THE CIRCULATION DURING EXERCISE

Poster

Wed. 7:30 am—Boston Convention & Exhibition Center, Exhibit Hall B

Presentation time: 12:30 pm–2:15 pm


W233 1054.2 Role of TNF-α in Regulating Augmented Exercise Pressor Reflex Induced by Femoral Artery Occlusion J. Lu, J. Xing and J. Li. Penn State Col. of Med.


W236 1054.5 Tetrahydrobiopterin Ameliorates the Exaggerated Exercise Pressor Response in Patients with Chronic Kidney Disease J. Park and A. Quyyumi. Emory Univ.


W239 1054.8 IL-6 Administration Increases the Exercise Pressor Reflex S.W. Copp, A.J. Stone and M.P. Kaufman. Penn State Col. of Med.

W240 1054.9 Do ATP and Hydrogen Peroxide Cause Sympatholysis in Rat Soleus Feed Arteries? T.J. Heckle and J.L. Jasperse. Pepperdine Univ.

**1055. EXERCISE, HEALTH AND DISEASE**

**Poster**  
**Wed. 7:30 AM—Boston Convention & Exhibition Center, Exhibit Hall B**

**Presentation time:** 12:30 PM—2:15 PM

<table>
<thead>
<tr>
<th>Poster</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>W242</td>
<td>1055.1 Predictors of Walking impairment in Patients with Claudication Using Linear and Non-linear Models</td>
<td>P. Abraham, M. Feuilloy, T. Mezmad, P.E. Chauvet and D. Schang. LUNAM Univ.; Grad. Sch. of Western Electronics (OCHS) and University Hosp., Angers.</td>
</tr>
<tr>
<td>W245</td>
<td>1055.4 Differences in Correlates of Energy Balance in Normal Weight, Overweight and Obese Adults</td>
<td>C. Drenowitz, J.M. Jakicic, S.N. Blair, J.R. Hebert and G.A. Hand. Univ. of South Carolina; Univ. of Pittsburgh and West Virginia Unv.</td>
</tr>
<tr>
<td>W250</td>
<td>1055.9 The Role of Skeletal Muscle Characteristics in the Decline of VO2peak in Rats</td>
<td>R.G. Toedebusch, G.N. Ruegsegger and F.W. Booth. Univ. of Missouri-Columbia.</td>
</tr>
</tbody>
</table>


W274 1055.33 A Pilot Exercise Intervention to Enhance Fitness and Quality of Life among African American and White Colorectal Cancer Survivors. B.T. Williams, N.B. Maxwell, J.L. Cook, M.C. Mahoney and A.D. Ray. Univ. at Buffalo.


1056. AUTONOMIC AND RESPIRATORY INTERACTIONS

Poster

WED. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALL B

Presentation time: 12:30 PM—2:15 PM


W278 1056.2 Respiratory and Cardiovascular Modulations in Patients with Spinal Cord Injury. S.C. Aslan and A.V. Ovechkin. Univ. of Louisville.


1057. AUTONOMIC CIRCUITRY IN THERMOREGULATION

Poster

WED. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALL B

Presentation time: 12:30 PM—2:15 PM


W281 1057.2 Clozapine, an Atypical Antipsychotic, Reduces the Contribution of Brown Adipose Tissue to Emotional Hyperthermia in Rats. M. Mohammed, Y. Ootsuka and W. Ovechkin. Univ. of West Florida.
1058. NEUROENDOCRINE FUNCTION

Poster

WED. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALL B

Presentation time: 12:30 PM–2:15 PM


W284 1058.2 Loss of GABAergic Inhibition in Hypothalamus in Chronic Stress Y. Gao, J-J. Zhou, T. Kosten and D-P. Li. Univ. of Texas, MD Anderson Cancer Ctr.; Univ. of Houston and Hebei Traditional Chinese Med. Col.

W285 1058.3 The Effects of Perinatal Androgen Deprivation on Sexual Motivation in Male Rats T. Khan, A. Yn, T. Khan, D. Fickes, P. Vang, K. Jeong, B. Shah, F. Yousaf, G. Taylor and C. Gopalan. St. Louis Col. of Pharm. and Univ. of Missouri-St. Louis.

W286 1058.4 The Effects of Perinatal Androgen Deprivation on Locomotor Activity in Male Rats T. Khan, A. Yn, T. Khan, D. Fickes, P. Vang, F. Yousaf, B. Shah, G. Taylor and C. Gopalan. St. Louis Col. of Pharm. and Univ. of Missouri-St. Louis.

1059. INFLAMMATION AND AUTONOMIC REGULATION

Poster

WED. 7:30 AM—BOSTON CONVENTION & EXHIBITION CENTER, EXHIBIT HALL B

Presentation time: 12:30 PM–2:15 PM


