SUNDAY, APRIL 3
Across Societies

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

Poster
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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 2016 has combined education posters from all participating societies. Please note: Posters are on display Sunday through Tuesday. Presentation time is for Sunday only.


T3 553.2 A PhUn Week Incursion in Australia Teaches 3-4 and 5-6 Graders Exercise Physiology. P.A. Halpin. Univ. of New Hampshire.

T4 553.3 Combining Physiology and Health Care Professions Education in High School-Aged Students: High Tech PhUn! A.N. Gurovich, D. Coover, B. Millsbaugh Storms, K. Terry. Indiana State Univ. and South Vermillion H.S., Clinton, IN.

T5 553.4 Race Influences Student Experience in Stem Courses. K.M.S. Johnson, N. Martina. Beloit Col., WI.

T6 553.5 Humanizing Science and Engineering to Reduce Health Care Delivery Inequalities. P. Cabrales, V. Jani. UCSD.

T7 553.6 An Interdisciplinary Approach Combines Physiology, Engineering, and Computer Science to Increase Awareness of Stem Professions among Middle School Students. P.A. Halpin, S. Tavares, M. Sabin. Univ. of New Hampshire.


T9 553.8 Novel Graduated Engagement Strategy Tools for Enhancing Student Success in a Large Diverse Introductory Physiology Course. S.J. Malmquist, W.F. Collins. Stony Brook Univ.


T12 553.11 Utilizing Interdisciplinary Research Experiences and Learning Communities to Engage Students in the Natural Sciences and Mathematics. A. Kruchten. Linfield Col., OR.


T15 553.14 Original Course-Based Undergraduate Research Experience to Detect Parasitic Worms in Local Parks in Two Undergraduate Courses. C.A. Schmidhauser, S.A. Blatch. Stevenson Univ.


T17 553.16 The Design and Impact of a New Biomedical Seminar Deconstruction Course on Undergraduate Learning – A Pilot Study. S. Osborne, S. Schroeter. Univ. of British Columbia.


T19 553.18 Improvement in Student Data Analysis Skills after Out-of-Class Assignments. K.L.W. Walton. Missouri Western State Univ.


T22 553.21 Online Simulations to Support the Teaching of Physiology. M.dM. Quiroga, S. Clarke, R. Rajan. Monash Univ., Australia.

T23 553.22 The Use of High Fidelity Patient Simulations to Improve Critical Thinking Skills in First Year Medical Students. D.M. Harris, A. Schuster, D. Kay, J.D. Kibble. Univ. of Central Florida.

T24 553.23 Comparison of High Fidelity Patient Simulation on the Retention of Physiology Concepts over Summer Break. A. Jones, D. Harris. Univ. of Central Florida Col. of Med.

T25 553.24 Clinical Scenario Videos Improve D.M.D Students’ Perception of the Basic Sciences and Ability to Apply Content Knowledge. C.J. Metz, M.J. Metz. Univ. of Louisville.

T26 553.25 Clinical Simulations: Engaging Medical Students in Problem-Based Learning. A. Li, H. Carvalho. Virginia Tech Carilion Sch. of Med.


T33 553.32 Modeling Aortic Insufficiency in the Scranton Cardiovascular Model. M.T. Graham, T.E. Sweeney. Univ. of Scranton.

T34 553.33 A Mathematical Model of the Cardiovascular System Based on the Scranton Cardiovascular Model. N.E. Frederick, J.R.N. Jimenez, J.M. Graham, T.E. Sweeney. Univ. of Scranton.


Anatomy

554. CARDIOVASCULAR BIOLOGY: DEVELOPMENT AND GROWTH

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Cardiovascular Biology

Presentation time: Odd Board# 12:00 PM–1:00 PM
Even Board# 1:00 PM–2:00 PM


555. CARDIOVASCULAR BIOLOGY: DYSFUNCTION; DISEASE; GENETIC DISORDERS

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Cardiovascular Biology

Presentation time: Odd Board# 12:00 PM–1:00 PM
Even Board# 1:00 PM–2:00 PM

A264 555.1 An Explanatory Computational Simulation of Contiguous Capillary Occlusion in Diabetic Retinopathy Based on Patient-Derived Vasculature. X. Fu, J.S. Gens, J.A. Glaizier, S. Burns, T.J. Gast. Indiana Univ.


A268 555.5 Trapped Lung Secondary to Cardiomegaly in a 78 Year-Old Male with Congestive Heart Failure. A.H. Amabile, R.M. DePhilip, S.D. Moffatt-Bruce. The Ohio State Univ.
556. **ANATOMY: CARDIOVASCULAR**

**Poster**  
**Sun. 9:00 am — San Diego Convention Center, Exhibit Halls A-D**

**Cardiovascular Biology**  
**Presentation time:** Odd Board# 12:00 PM – 1:00 PM  
Even Board# 1:00 PM – 2:00 PM


A272 556.4 Bilateral Intra-individual Comparison of Vascular Structure following Eight Weeks of Unilateral Maximal Interval Handgrip Training in Post-menopausal Women. **D.C. Bentley, S.G. Thomas.** Univ. of Toronto.

557. **CARDIOVASCULAR BIOLOGY: ANATOMY AND MORPHOLOGY**

**Poster**  
**Sun. 9:00 am — San Diego Convention Center, Exhibit Halls A-D**

**Cardiovascular Biology**  
**Presentation time:** Odd Board# 12:00 PM – 1:00 PM  
Even Board# 1:00 PM – 2:00 PM


A274 557.2 Morphological Analyses of the Articular Supply to the Brain. **E.G.M. Kyle, V. Hachinski, D.A. Ramsay, K.A. Rogers.** Western Univ., Canada.


A276 557.4 Variation of the Common Carotid Artery Diameter Related to Age. **M. Tracy-Bee, S.T. Barton, J. Zurke, N. Hamka.** Univ. of Detroit Mercy and UCSD.

A277 557.5 A Unique Case of Branching Pattern in the Superior Mediastinum: A Brachiocephalic Trunk with Four Branches, and the Left Thyrocervical Trunk Arising from the Aortic Arch. **N. Valentin Carro, W. Veras Tavares.** Univ. Central del Caribe, PR.

A278 557.6 Perforator Angiosomes of the Anterior Knee Region. **L. Hirtler, A. Lübbers.** Med. Univ. of Vienna, Austria.

558. **CARDIOVASCULAR BIOLOGY: BIOENGINEERING, REPAIR AND REGENERATION**

**Poster**  
**Sun. 9:00 am — San Diego Convention Center, Exhibit Halls A-D**

**Cardiovascular Biology**  
**Presentation time:** Odd Board# 12:00 PM – 1:00 PM  
Even Board# 1:00 PM – 2:00 PM


560. **ANATOMY: NEURAL**

**Poster**  
**Sun. 9:00 am — San Diego Convention Center, Exhibit Halls A-D**

**Neurobiology**  
**Presentation time:** Odd Board# 12:00 PM – 1:00 PM  
Even Board# 1:00 PM – 2:00 PM


A282 560.2 The Interplay between Taste and Chemesthesia. **A.Y. Huang, S.Y. Wu.** So. Illinois Univ. Sch. of Med.


561. **NEUROBIOLOGY: BEHAVIOR; NEUROPSYCHIATRIC DISORDERS; DISEASE; AGING**

**Poster**  
**Sun. 9:00 am — San Diego Convention Center, Exhibit Halls A-D**

**Neurobiology**  
**Presentation time:** Odd Board# 12:00 PM – 1:00 PM  
Even Board# 1:00 PM – 2:00 PM

A284 561.1 Cystatin Peptide Prevents Alzheimer’s Pathology in CRND8 AD Mice. **P.A. Shaw.** Icahn Sch. of Med. at Mount Sinai.
A291 561.8 Thymoquinone Enhances Neurogenesis to a Greater Extent in Middle-Aged Than in Young Aged Rat in Chronic Epilepsy. S.A. Brito, M.S. Rao. Kuwait Univ.
A295 561.12 Behavioral Evidence of Transient versus Persistent Tinnitus Induced by Loud Noise Exposure in a Novel Rat Model. K. Beh, M. Tynit, G. Sigel, A. Schormans, D. Stolzberg, B.L. Allman. Univ. of Western Ontario. (371.5)

562. NEUROBIOLOGY: BRAIN

Poster

SUN. 9:00 AM — SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Neurobiology

Presentation time: Odd Board# 12:00 PM–1:00 PM
Even Board# 1:00 PM–2:00 PM


A297 562.2 Morphometry of the Corpus Callosum and Its Possible Clinical Correlations. E.P. Camara, A.J.A.X. Pinto, M.R. Tavares, V.P.S. Fazan, M. Amorim, N.F. Oliveira, H.R. de Paula. Univ. José do Rosário Vellano, Brazil and Univ. of São Paulo, Ribeirão Preto.


A300 562.5 Morphometric Analysis of the Blood-Brain Barrier in the Peri-infarct Zone in Young Adult and Aged Mice. P.C. Nahirney, P. Reeson, C.E. Brown. Univ. of Victoria, Canada.


563. NEUROBIOLOGY: DEVELOPMENT

Poster

SUN. 9:00 AM — SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Neurobiology

Presentation time: Odd Board# 12:00 PM–1:00 PM
Even Board# 1:00 PM–2:00 PM


564. NEUROBIOLOGY: NEURONAL AND SPINAL CORD DEGENERATION, REPAIR AND REGENERATION

Poster

SUN. 9:00 AM — SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Neurobiology

Presentation time: Odd Board# 12:00 PM–1:00 PM
Even Board# 1:00 PM–2:00 PM

A304 564.1 Quantification of Substance P in Dorsal Root Ganglion Neurons, after Noxious Stimulation during the Neonatal Period. A.L.B. Simões, C.S. Carvalho, E.C. Carmo, N.B. Machado, L.S. Sanada, V.P.S. Fazan. Sch. of Med. of Ribeirão Preto, Brazil.


565. ANATOMY EDUCATION: MEDICAL STUDENTS AS TEACHERS/PEER TEACHING

Poster

Sun. 9:00 am – San Diego Convention Center, Exhibit Halls A-D

Education and Teaching

Presentation time: Odd Board# 12:00 pm – 1:00 pm
Even Board# 1:00 pm – 2:00 pm


A311 565.2  Gaining Competencies during Early Medical Training: Medical Students as Teaching Assistants in Dissection-Based Anatomy Course. M.T. Brown, G. Zhang. Thomas Jefferson Univ.


A314 565.5  Role of Peer-Teaching in Graduate Anatomical Sciences Education. L.M.J. Lee. Univ. of Coloradoa Sch. of Med., Aurora.

566. ANATOMY EDUCATION: STUDENT SELF/PEER-ASSESSMENT

Poster

Sun. 9:00 am – San Diego Convention Center, Exhibit Halls A-D

Education and Teaching

Presentation time: Odd Board# 12:00 pm – 1:00 pm
Even Board# 1:00 pm – 2:00 pm

A315 566.1  A Newly Modified Research Design for the Assessment of an In-Class, Student Driven Teaching Activity. D.C. Bentley, C.L. DeZorzi, N. Richardson. Univ. of Toronto, George Brown Col. and York Univ., Toronto.


567. ANATOMY EDUCATION: ASSESSMENT

Poster

Sun. 9:00 am – San Diego Convention Center, Exhibit Halls A-D

Education and Teaching

Presentation time: Odd Board# 12:00 pm – 1:00 pm
Even Board# 1:00 pm – 2:00 pm


568. ANATOMY EDUCATION: TECHNOLOGY ASSISTED

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Education and Teaching

Presentation time: Odd Board# 12:00 PM–1:00 PM
Even Board# 1:00 PM–2:00 PM


A328 568.3 Tailoring Virtual Content to Curricula: BlueLink. K. Alsup, G.M. Fox. Univ. of Michigan.

A329 568.4 Effectiveness of BlueLink Cadaveric Multimedia Resources in a Pre-professional Course. S.N. Dudgeon, B.K. Alsop, G.M. Fox. Univ. of Michigan Med. Sch.


A331 568.6 The Use of Facebook to Support Anatomy Learning. M. El-Sherbiny, M.A. Eladl, M.E. Abdalla. ALMaarefa Col., Saudi Arabia. Univ. of Mansoura, Egypt and Univ. of Sharjah, United Arab Emirates.


A334 568.9 Decreasing Bias of the Traditional Structure Tagging Method during an Anatomy Practical Lab Exam Using Google Glass. B. Benninger, I. Blandford. Western Univ. of Hlth. Sci., Lebanon, OR.


A336 568.11 Teaching Ultrasound of the Musculoskeletal System during Anatomy Using the 7D Interactive Software Program. I. Blandford, B. Benninger. Western Univ. of Hlth. Sci., OR.

A337 568.12 From the Novice to the Experienced Ultrasound User: 7D Interactive Software Is Your Personal Tutor. I. Blandford, B. Benninger. Western Univ. of Hlth. Sci., OR.


A340 568.15 A Virtual Laboratory and Game-Based App to Facilitate Self-Directed Online Learning in Histology. N. Swailes. Univ. of Iowa.


A345 568.20 Utility of Virtual 3D Animations and 3D Printed Models of Heart Development in Graduate Embryology Education. A. Richardson, L.M.J. Lee. Univ. of Colorado Sch. of Med.


A347 568.22 Development of 3D Stereoscopic Virtual Model of the Pelvis from Computed Tomography Images. A.M. James, A.D. Smith, D. Cui. Univ. of Mississippi Med. Ctr.


A349 568.24 The Effect of Focused Active Learning Strategies on Student Engagement with Respect to Socioeconomic Class. T. Birk, V. Lee. Ivy Tech Community Col., Lafayette, IN and So. Adventist Univ., Collegeade, TN.


A351 568.26 The Effect of Focused Active Learning Strategies on Student Engagement with Respect to Socioeconomic Class. T. Birk, V. Lee. Ivy Tech Community Col., Lafayette, IN and So. Adventist Univ., Collegeade, TN.

A352 568.27 The Effect of Focused Active Learning Strategies on Student Engagement with Respect to Socioeconomic Class. T. Birk, V. Lee. Ivy Tech Community Col., Lafayette, IN and So. Adventist Univ., Collegeade, TN.

A353 568.28 The Effect of Focused Active Learning Strategies on Student Engagement with Respect to Socioeconomic Class. T. Birk, V. Lee. Ivy Tech Community Col., Lafayette, IN and So. Adventist Univ., Collegeade, TN.

A354 568.29 The Effect of Focused Active Learning Strategies on Student Engagement with Respect to Socioeconomic Class. T. Birk, V. Lee. Ivy Tech Community Col., Lafayette, IN and So. Adventist Univ., Collegeade, TN.

A355 568.30 The Effect of Focused Active Learning Strategies on Student Engagement with Respect to Socioeconomic Class. T. Birk, V. Lee. Ivy Tech Community Col., Lafayette, IN and So. Adventist Univ., Collegeade, TN.

A356 568.31 The Effect of Focused Active Learning Strategies on Student Engagement with Respect to Socioeconomic Class. T. Birk, V. Lee. Ivy Tech Community Col., Lafayette, IN and So. Adventist Univ., Collegeade, TN.

A357 568.32 The Effect of Focused Active Learning Strategies on Student Engagement with Respect to Socioeconomic Class. T. Birk, V. Lee. Ivy Tech Community Col., Lafayette, IN and So. Adventist Univ., Collegeade, TN.

569. ANATOMY EDUCATION: FACTORS AFFECTING STUDENT PERFORMANCE

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Education and Teaching

Presentation time: Odd Board# 12:00 PM–1:00 PM
Even Board# 1:00 PM–2:00 PM


A350 569.2 The Effect of Focused Active Learning Strategies on Student Engagement with Respect to Socioeconomic Class. T. Birk, V. Lee. Ivy Tech Community Col., Lafayette, IN and So. Adventist Univ., Collegeade, TN.

A356  569.8  Optional Online Quizzes Increase Student Success on Exams in an Undergraduate Human Anatomy Course.  N. Richardson.  York Univ., Canada.
A359  569.11 The Impact of Team-Based Learning on Physician Assistant Student’s Academic Performance in Gross Anatomy.  V. Makeeva, J.A. Isbell, K. Caruthers, W. Brooks.  Univ. of Alabama Sch. of Med. and Univ. of Alabama at Birmingham.

A570.  ANATOMY EDUCATION: SPATIAL ABILITIES

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Education and Teaching

Presentation time: Odd Board# 12:00 PM—1:00 PM
Even Board# 1:00 PM—2:00 PM

A364  570.3  Spatial Organization and Learning.  L. Alazzeh.  San Francisco State Univ.
A366  570.5  The Influence of Spatial Ability on Medical Student Performance in the Basic Sciences.  A. Willis, A. Edmondson, C. Martin.  Med. Col. of Georgia at Augusta Univ., Augusta Univ. and Univ. of Western Ontario.
A367  570.6  Effect of Spatial Ability on Enhancing Neuroanatomy Education with an Interactive 3D E-Learning Module.  L. Allen, R. Eagleson, S. deRibaupierre.  Western Univ., Canada.
A369  570.8  Potential of “Living” Photography in an Online Anatomy Resource to Improve Students’ 3D Spatial Understanding.  M. Pascoe, L. Lee.  Univ of Colorado, Aurora.
A371  570.10  Teaching Students to See: Visual Learning Instruction for Two Different Undergraduate Anatomy Courses.  B. Barger.  Indiana Univ.
Biochemistry and Molecular Biology

571. CRISPR MECHANISM AND FUNCTION

Poster
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

Presentation time: 12:00 PM–1:30 PM

C1 571.1 Live Cell Interrogation of dCas9:sgRNA Dynamics Off and at the Target. T. Pederson. Univ. of Massachusetts Med. Sch.


C3 571.3 Control of CRISPR Priming and Interference Activities by a Cascade-Activated Switch. N.R. Whitis, C. Xue, D.G. Sashital. Iowa State Univ.

C4 571.4 Utilizing the CRISPR-Cas System to Excise and Study the Insulin Enhancer. S. Yang, R. Rose. North Carolina State Univ.

C5 571.5 Optimization of DNA, RNA and RNP Delivery Methods for Efficient CRISPR/Cas9 Mediated Mammalian Cell Engineering. C. Khodthong, J. Snow, L. Juckem. Mirrus Bio LLC, Madison, WI.


572. DNA

Poster
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

Presentation time: 12:00 PM–1:30 PM


C9 572.2 Design and Construct a Type of Fluorescently Labeled Circular DNA Molecules to Study DNA Topology and Topoisomerases by Fluorescence Resonance Energy Transfer. F. Leng, M. Gu. Florida Intl. Univ.

C10 572.3 Phylogenetic Classification of Gongora species (Orchidaceae) Based on DNA Barcode Regions matK, rpoB, rpoC1, and trn-H-psbA. C. Guardado, O. Rodriguez, K. Foss, D. Ludovic, C. Ribadeneyra, C. Trivino, E. Baenziger, A. Ribes-Zamora, A.D. Simmons. Univ. of St. Thomas, TX.

573. DNA DAMAGE SIGNALING

Poster
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM


574. DNA REPAIR ENZYMES

Poster
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM

C15 574.1 Investigation of the DNA Damage-Induced Protein DinD, and Its Effect on DNA Synthesis. Z.J. Romero, S. Lusetti. New Mexico State Univ.

C16 574.2 Kinetic Mechanism for Binding and Flipping of Damaged Bases by DNA Repair Dealkylases. P. O'Brien. Univ. of Michigan.

575. GENOME DIVERSITY AND DNA RECOMBINATION

Poster
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

Presentation time: 12:00 PM–1:30 PM

576. GENOME STABILITY AND DNA REPAIR

Poster
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM—1:30 PM


C19 576.2 Multiple Inversions-Induced Chromosomal Rearrangements. A. Piazza, W-D. Heyer. Univ. of California, Davis.


577. INTERSTRAND CROSSLINK REPAIR

Poster
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM—2:00 PM


578. REPLICATION: ALPHA TO OMEGA

Poster
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM—2:00 PM


C28 578.3 TFAM Mutants Support mtDNA Replication In Vivo. M. Alexeyev, N. Kozhukhar. Univ. of South Alabama.

C29 578.4 Flexible Modes of Translocation by the Eukaryotic CMG Helicase Facilitate Removal or Bypass of DNA Blocks. L.D. Langston, M. O’Donnell. HHMI, Rockefeller Univ.

579. CHROMATIN RECOGNITION AND ASSEMBLY

Poster
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM—1:30 PM


580. CHROMATIN STRUCTURE IN GENE ACTIVATION

Poster
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM—1:30 PM


581. DNA METHYLATION DYNAMICS AND FUNCTION DURING DEVELOPMENT AND PATHOGENESIS

Poster
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM—2:00 PM

C33 581.1 Genome Wide Methylation of RASSFs Associated Genes in Kidney Cancer. M.S. Alokal, A.M. Alenad. King Saud Univ., Saudi Arabia and Univ. of Southampton, U.K.

C34 581.2 DNA Cytosine Methyltransferase Increases Stationary Phase Fitness under Temperature Stress in Escherichia coli R.A. Huss, S. Davidson, K.T. Miltitelo. SUNY at Geneseo.


582. DYNAMICS OF TRANSCRIPTION

Poster
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM—2:00 PM

583. EPIGENOME DYNAMICS IN DEVELOPMENT

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM–1:30 PM


C39 583.2 Decline in Arylsulfatase B and Overexpression of Galactose 6-Sulfatase Both Increase DNA Methyltransferase Activity and Wnt Signaling in Prostate Stem Cells. S. Bhattacharyya, L. Feferman, J.K. Tobacman. Univ. of Illinois at Chicago and Jesse Brown VA Med. Ctr.

584. FUNCTIONAL CHARACTERIZATION OF CIS-REGULATORY SEQUENCES

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM–1:30 PM


585. GENOME-WIDE ANALYSIS OF TRANSCRIPTIONAL REGULATORY MECHANISMS

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM


587. NON-CODING RNAs IN GENE REGULATION AND CHROMOSOME STRUCTURE

Poster

Sun. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D

Presentation time: 12:00 PM–1:30 PM


C55 587.2 Analysis of Long Noncoding RNA Chromatin Interactions by Chromatin Isolation by RNA Purification. N. Asbrock. EMD Millipore, Temecula, CA.

588. NUCLEAR ARCHITECTURE

Poster

Sun. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D

Presentation time: 12:00 PM–1:30 PM


589. TRANSCRIPTIONAL ASSEMBLIES AND MECHANISMS

Poster

Sun. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D

Presentation time: 12:30 PM–2:00 PM


590. ALTERNATIVE RNA SPlicing

Poster

Sun. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D

Presentation time: 12:30 PM–2:00 PM


C60 590.3 Identification of Alternatively Spliced Transcript of Bax Gene in Mouse. M.A. Husain, M. Tabish. Aligarh Muslim Univ., India.


C64 590.7 Design of a Pre-trans-Splicing Molecule to Generate a Soluble Extracellular Peptide Decoy to Block Activation of the Epidermal Growth Factor Receptor Pathway in Human Glioblastoma Cells. S.C. Falotico. Monmouth Univ.


591. MOLECULAR RECOGNITION AND ENZYMOLOGY OF RNA

Poster

Sun. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D

Presentation time: 12:00 PM–1:30 PM


592. MOLECULAR RECOGNITION OF RNA

Poster

Sun. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D

Presentation time: 12:00 PM–1:30 PM


593. RNA PROCESSING

Poster
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM

C70 593.1 Reprogramming Msl5 to Recognize Mutant Branch Point Sequences during Spliceosome Assembly. B. Turner, M. Rodgers, A. Hoskins. Univ. of Wisconsin-Madison.
C73 593.4 An Investigation of the Role of the NuA4 and Swr1 Complexes in Coordination of Transcription and RNA Splicing. A.N. Avitto, N. Paripati, A. Moazamian, J. Martinez, R. Moazamian, J. Pleiss, T. Kress. The Col. of New Jersey and Cornell Univ.
C75 593.6 The Role of Histone Variant H2A.Z in Cotranscriptional Splicing in Saccharomyces cerevisiae. L.T. Neves, S. Douglass, A. Galivanche, T. Johnson. UCLA.

594. RNA: PROCESSING, TRANSPORT, AND REGULATORY MECHANISMS

Poster
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM

C77 594.2 Genetic and Biochemical Studies on the Role of Essential Protein Dib1 in Pre-messenger RNA Splicing. E. Bowman, C. Hernandez, C. Schreib, A. Lucas, C. Maeder. Trinity Univ., TX.
C78 594.3 EWSR1 Potentially Functions as an RNA Chaperone in the Stress Response. C. Ribadeneyra, S. Amin. Univ. of St. Thomas, TX.

595. PROTEIN SYNTHESIS AND DEGRADATION

Poster
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM–1:30 PM

C80 595.2 Translocating Loop-Substrate Interactions Mediate Subunit Coordination and Regulate the Mechanoschemical Coupling and Power Production in a AAA+ Protease Machine. P. Rodriguez, L. Ramirez, F. Kim, C. Bustamante, A. Martin. Univ. of California, Berkeley.
C85 595.7 The PINK-Parkin Circuit in Mitochondrial Quality Control. X. Liu, C. Zhang, Y. Peng, E. Bunker, S. Lee. Univ. of Colorado Boulder.
597. PROTEASOMES: STRUCTURE AND REGULATION

Poster

SUN. 9:00 AM — SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM—2:00 PM

C94 597.1 Assessing Substrate Engagement by Single Molecules of the AAA+ Protease ClpXP: R.A. Saunders, B.M. Stinson, R.T. Sauer. MIT.

C95 597.2 Illuminating the Proteasome: Fluorescence Assays for Investigating the Kinetics of Proteasome Substrate Processing. J.A. Bard, E. Jonsson, A. Martin. Univ. of California, Berkeley.

C96 597.3 Mode of Ubiquitination Determines Complete or Partial Degradation of GFP Substrates by the 26S Proteasome. G.G. Chirico, D.A. Kraut. Villanova Univ.


C99 597.6 Resveratrol Modulates Cytokine Expression in LPS-Induced Human Monocytes: Role of Proteasome Subunits. N. Silswal, N. Reddy, N. Qureshi. Univ. of Missouri-Kansas City.

598. PROTEIN FOLDING AND MISFOLDING

Poster

SUN. 9:00 AM — SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM—2:00 PM


C101 598.2 Understanding Dysregulated Collagen-I Proteostasis Linked to Osteogenesis Imperfecta. N-D. Doan, A.S. DiChiara, M.Y. Wong, R.J. Taylor, M.D. Shoulders. MIT.


C104 598.5 Structural Analysis of CCT-Bound Folding Intermediates for mTORC1 Subunits Raptor and mLs. T8 W.G. Ludlam, T. Aoba, J. Cuéllar, A. Makaju, S. Franklin, J.M. Valpuesta, B.M. Willardson. Brigham Young Univ., Autonomous Univ. of Madrid and Univ. of Utah.

C105 598.6 Structural Characterization of a Mutant Form of the Chlamydiid Protein Pg. p3 T. Trinh, J. Waninger-Saroni, A. Galaledeen. St. Mary’s Univ., TX and Univ. of Michigan.


C108 598.9 Elucidating ER-Associated Degradation Pathway for GABA_A Receptors. T. Mu. Case Western Reserve Univ.

599. REGULATION OF PROTEIN SYNTHESIS BY RNA

Poster

SUN. 9:00 AM — SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM—1:30 PM


600. PROTEIN-PROTEIN INTERACTIONS

Poster

SUN. 9:00 AM — SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM—1:30 PM

C112 600.1 A Novel Plate-Binding Array to Characterize CaMKII Protein-Protein Interactions. T.L. Perffit, C.R. Marks, R.J. Colbran. Vanderbilt Univ.


C114 600.3 Competition between Tamm-Horsfall Protein and Heparin in Ligand Interactions. M. Haskell, D.C.J. Rhodes. Pacific Northwest Univ.


C118 600.7 FRET Analysis of KLHL1 Homo-dimerization and Interaction with Actin: Influence of Ca,3,2 Calcium Channel Interaction with the KLHL1 Complex. H.R.S. Martin, V. Sivakumaran, K.A. Benzow, M.D. Koob, J.L. Martin, S.L. Robia, E.L. Piedras-Renteria. St Johns Univ., NY, Loyola Univ. Chicago, Maywood and Univ. of Minnesota, Minneapolis.


C120 600.9 Investigating the Activation of the Tm2-2 Immune Receptor in Response to the Tobamovirus Movement Protein. C. Sandoval, M.A. Sacco. California State Univ. Fullerton.


C122 600.11 Calcineurin Homologous Protein Isoforms 1 and 2 Binding to the Sodium Hydrogen Exchanger 1 C. Marshall, M. Wallert, J.J. Provost. Univ. of San Diego and Bemidji State Univ.

C123 600.12 Frustrational Analysis of Na+/H+ Exchanger 1 and Calcineurin B Homologous Protein 1 & 2 D. Silva, J. Latzer, M. Wallert, J.J. Provost. Univ. of San Diego and Bemidji State Univ.


C125 600.14 Aim32p is a Novel Member of the Erv1 Translocation Pathway within the Mitochondrial Intermembrane Space of Saccharomyces cerevisiae D.V. Dabir, K. Nguyen, C. Koehler. Loyola Marymount Univ. and UCLA.


C129 600.18 The Role of Subunit Interfaces of Malate Dehydrogenase in Protein Folding and Unfolding. J. Abano, E. Bell, J. Bell. Univ. of San Diego.

C130 600.19 Using ANS to Probe Ligand-Induced Conformational States of Malate Dehydrogenase. M. Schwabe, E. Bell, J. Bell. Univ. of San Diego.

C131 600.20 The Effects of the H90 and E256 Mutations in the gMDH Interface on the Stability, Function, and Interface Interactions of gMDH. Z. Stewart, N.M. Garcia, E. Bell, J. Bell. Univ. of Richmond and Univ. of San Diego.

C132 600.21 Probing the Subunit Interface of Malate Dehydrogenase: Effects of S266A and L269A Mutations. N. James, J. Verdi, E. Bell, J. Bell. Univ. of Richmond and Univ. of San Diego.

C133 600.22 Transcriptional Complexes Involving PAX3-FOX. O1 A. Weatherspoon, T. Cherlin, K. Johanson. Univ. of Louisiana.


C137 600.28 Noncanonical PDZ Interaction between PKAα Rlx R368X Acrodysostosis Mutant >and P-Rex1 PDZ Domain. J.C. Del Rio, J.G.H. Bruystens, L. Chávez-Vargas, Y. Ma, A.P. Kornev, J. Vázquez-Prado, S.S. Taylor. UCSD and CINVESTAV-IPN, Mexico City.


601. PROTEOMICS AND BIOINFORMATICS

Poster

SUN: 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM


C144 600.4 Identification of the Recognition Sequence in Gluten by the Prolyl Endopeptidase of Eurygaster integriceps S. Melton. Stephen F. Austin State Univ.
602. PROTEOMICS/SYSTEMS BIOLOGY FOR HUMAN HEALTH AND MEDICINE

Poster
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:30 PM–2:00 PM


C152 602.2 Rapid and Reproducible Proteotype Acquisition from Biopsy Level Samples. T. Guo, R. Aebersold. ETH Zurich.


603. QUANTITATIVE PROTEOMICS

Poster
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:00 PM–1:30 PM

C157 603.1 The Potential Urinary Aging Markers from 20-Month-Old Rats. X. Li, Y. Gao. Peking Union Med. Col. and Beijing Normal Univ.


604. BIOPHYSICAL METHODS

Poster
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:00 PM–1:30 PM


605. BIOINORGANIC CATALYSIS

Poster
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:30 PM–2:00 PM


C165 605.2 An Investigation Into the Extended Coordination Network of Catalytic Zinc Ions in a Class B β-Lactamase. A. Caruso, E. Eberhardt. Vassar Col., NY.

606. ENZYMES AS DRUG TARGETS

Poster

Presentation time: 12:30 PM–2:00 PM

C167 606.1 Peptide-Induced Inhibition of ATP Synthase as an Alternative Approach to Combat Microbial Infections. Z. Ahmad. A.T. Still Univ., MO.

C168 606.2 Withdrawn


607. ENZYME INHIBITORS

Poster

Presentation time: 12:00 PM–1:30 PM

C174 607.1 Structural and Inhibitor Screening Studies of a Fungal Form of Aspartate Semialdehyde Dehydrogenase from Cryptococcus neoformans. G.P. Dahal, R.E. Viola. The Univ. of Toledo.


C180 607.7 Examination of Turnip Mosaic Virus Genome-Linked Protein (VPg) as an Effective Novel Inhibitor of Ricin Toxin A Chain. S. De Los Santos, A.V. Domashevskiy. John Jay Col. of Criminal Justice, NY.


C185 607.12 Identification of Small Molecule Inhibitors of the LINE1 Endonuclease. J. Meyers, C. DeFreece. Xavier Univ. of Louisiana.


608. MECHANISTIC STUDIES OF METALLOENZYME

Poster

Presentation time: 12:00 PM–1:30 PM


C188 608.2 Structural and Functional Characterization of the Sco Protein from Thermus thermophilus. L. Lopez, L. Hunsicker-Wang. Trinity Univ., TX.


C190 608.4 A Surprising Shift in the Biosynthesis of Marine Meroterpenoids. Z. Miles, S. Deithelm, J. George, B. Moore. UCSD and Univ. of Adelaide.

609. PHOTOCHEMICAL SENSORS
Poster
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:30 PM–2:00 PM


610. PROTEIN INTERACTIONS IN CATALYSIS
Poster
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:30 PM–2:00 PM


C194 610.2 Systematic Proteomics and Biochemical Approaches to Identities the Function of UBQN10 in p97-Associated Process. X. Li, S. Li, T-F. Chou. LA BioMed, Torrance.

611. PROTEOLYTIC ENZYMES AND INHIBITORS
Poster
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:00 PM–1:30 PM

C195 611.1 Cleavage of Proglucagon by the Prohormone Converting Enzymes PCSK1 and PCSK2 Is Not Dictated by the Amino Acid Sequence Immediately Adjacent to the Cleavage Site. R.B. Mackin, Creighton Univ.

C196 611.2 Peptides Mimicking the Reactive Center Loop as Potential Inhibitors of Serpin-3 in Manduca sexta M. Li, M.R. Kanost. Kansas State Univ.

C197 611.3 N-Terminal Extracellular Beta-1 Adrenergic Receptor Cleavage by Matrix Metalloproteinase 2 A.N. Goncalves, J. Ramos, R.F. Gerlach. Univ. of Sao Paulo, Ribeirao Preto.


612. CHEMICAL BIOLOGY AND DRUG DISCOVERY
Poster
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:00 PM–1:30 PM


C200 612.2 Menaquinone Biosynthesis: An Antibacterial Target? J. Matarlo. Stony Brook Univ.


C205 612.7 Structural Insight into Glucose-6-Phosphate Dehydrogenase (G6PD) Deficiency – Discovery of Novel G6PD Activators to Correct G6PD Deficiency. S. Hwang. Stanford Univ.


C210 612.12 Evolution of Metal Ion and Purine Nucleotide Effects and Cooperativity in Glutamate Dehydrogenase: The Role of Conformational Flexibility. S. Tran, J. Bell, E. Bell. Univ. of San Diego.

613. NEW TARGETS FOR DRUG DISCOVERY: ANTIBACTERIALS

Poster

**Presentation time:** 12:30 PM–2:00 PM


C214 612.16 Conjugation of BSA Onto PEG via Strain-Promoted Azide-Alkyne Cycloaddition as a Drug Delivery System. **J. Hill.** Loyola Univ. Chicago.


614. NEW TARGETS FOR DRUG DISCOVERY: SIGNALING PROTEINS

Poster

**Presentation time:** 12:30 PM–2:00 PM


615. WELCOME TO THE POST-ANTIBIOTIC ERA

Poster

**Presentation time:** 12:00 PM–1:30 PM

C227 614.1 Mechanisms by Which Plant Extracts Delay Aging in Yeast by Targeting Certain Signaling Pathways and Modulating Lipid Metabolism. **V. Titorenko, V. Lutchman, Y. Medkour, A. Leonov, A. Arlia-Ciommo, V. Svitkova, P. Dakik.** Concordia Univ., Montreal.

617. REGULATION OF GENE EXPRESSION BY O-GLCNAC
Poster
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:30 PM–2:00 PM

618. GLYCANS IN BACTERIA
Poster
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:30 PM–2:00 PM

619. GLYCANS IN DEVELOPMENT
Poster
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:00 PM–1:30 PM
C236 619.1 The Role of N-Linked Glycosylation in Drosophila Development Morgan Thomas and Dr. Erica M. Selva Department of Biological Sciences, University of Delaware, 210 South College Ave, Newark, Delaware 19711. M.D. Thomas, E.M. Selva. Univ. of Delaware.

620. GLYCANS IN DISEASE
Poster
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:00 PM–1:30 PM

621. GLYCANS IN PROTEIN QUALITY CONTROL
Poster
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:30 PM–2:00 PM

622. GLYCOBIOLOGY AND EXTRACELLULAR MATRIX
Poster
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:30 PM–2:00 PM
C240 622.1 MAGP2 Binding to αβ3 Integrins Affects Levels of Microfibril Formation. R. Daniels, M. Valdivia, A. Perez, A. Miyamoto. California State Univ. Fullerton.

623. GLYCOMICS
Poster
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:00 PM–1:30 PM

624. GLYCOSYLTTRANSFERASES
Poster
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:00 PM–1:30 PM
625. AGING AND METABOLISM

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM


626. GENETIC AND METABOLIC APPROACHES TO OBESITY

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM


627. METABOLISM, DISEASE AND DRUG DESIGN

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

Presentation time: 12:00 PM–1:30 PM

628. METABOLISM AND NUTRITION

Poster

SUN. 9:00 AM — SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

Presentation time: 12:00 PM–1:30 PM

C266 628.1 Association of Serum Sex Hormone-Binding Globulin with Features of Metabolic Syndrome in Children. N. Al-Daghr, N. Khan, O. Al-Attas, S. Sabico, M. Alokail, S. Kumar. King Saud Univ. and Warwick Univ., U.K.

C267 628.2 High Fructose Corn Syrup-55 Alters Hepatic Metabolism to Increase Risk of Non-alcoholic Fatty Liver Disease in Female Sprague-Dawley Rats. S. Lateef, K. Mock, V. Benedito, J. Tou. West Virginia Univ.


629. OMICS APPROACHES TO TARGET DISCOVERY

Poster

SUN. 9:00 AM — SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM


C279 629.4 Development of a Python-Based Algorithm for the Quantification and Analysis of Multivariate Next Generation Sequencing Data following Genome-Wide Mutagenesis and Cell Survival Screening. T.M. Forst, P.J.M. Murphy. Seattle Univ.

630. NUCLEAR RECEPTORS IN METABOLIC SYNDROMES

Poster

SUN. 9:00 AM — SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM

C280 630.1 Effects of Synthetic Ligands on Heterodimer Pairs Regarding PPARα, RXRα and LXRα. E.E. Delman, S.D. Rider, H.A. Hostetler. Wright State Univ.

C281 630.2 Critical Role of Residues in Helices 9 and 10 of the Liver X Receptor Alpha in Mediating Heterodimer Choice between Heterodimeric Complexes. S. Bedi, H.A. Hostetler, S.D. Rider; Jr. Wright State Univ.


631. CARGO SORTING AND VESICLE TARGETING

Poster

SUN. 9:00 AM — SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

Presentation time: 12:00 PM–1:30 PM

C285 631.1 A Novel Element in the Cytoplasmic Domain of the Type I TGFβ Receptor Mediates Basolateral Targeting in Polarized Epithelial Cells. X. Yin. Mayo Clin.


C287 631.3 The Roll of COMMD1 in Membrane Protein Trafficking. D. Stewart, K. Short, E. Buglo, J. Burkhead. Univ. of Alaska Anchorage.
632. CELL MIGRATION

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM–1:30 PM


633. CELL SIGNALING, KINASE AND CHEMOTHERAPY

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM


C294 633.3 Enterococcus faecalis GdpP Is a Novel Protein with a Potential Role in Stress Signaling and Response through the Essential Second Messenger Cyclic Di-AMP. X. Wang, M. Davleiva, Y. Shamooy. Rice Univ.

C295 633.4 Src Family Kinases as Proteasome Regulators and Therapeutic Targets for Treatment of Diffuse Large B-Cell Lymphoma. M. Cann, M. Priestman, Q. Wang, D. Lawrence. Univ. of North Carolina at Chapel Hill.


C297 633.6 Designing AllostERIC Switches of Kinases. N.V. Dokholyan, O. Dagliyan, K. Hahn. Univ. of North Carolina at Chapel Hill.

C298 633.7 Phosphorylation of Secreted Proteins by a New Family of Kinases. V.S. Tagliabracci, S. Wiley, J. Dixon. Univ. of Texas Southwestern and UCSD.


C300 633.9 Pentoxifylline Modulates the AKT/mTOR/AMPK Pathway: Potential Role as an Adjunct in Cancer Chemotherapy. G.T. Le, R. Canatsey, K. Tran, T.J. Monks, S. Lau. Univ. of Arizona.

634. BIOENERGETICS

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM


635. CYTOCHROME P450

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM–1:30 PM

C302 635.1 Activity and Kinetic Characterization of Four Human CYP2D6 Polymorphisms Using the Substrates Bufuralol and Dextromethorphan. S. Glass, L.L. Furge. Kalamazoo Col., MI.

C303 635.2 Role of SQSTM1/p62 in Cytochrome P450 Autophagy? Y. Liu, M.A. Correia. UCSF.

C304 635.3 Susceptibility of Four Human CYP2D6 Variants and One Active Site Mutant to Inhibition by the Mechanism-Based Inactivator SCH 66712. V.M. Osorio, L. Lowe Furge. Kalamazoo Col., MI.

636. FLAVOPROTEINS

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM–1:30 PM


C306 636.2 Examining the Functional Roles of Active Site Residues in the Catalytic Mechanism of Dibenzo thiophene Monoxygenase. L. Gonzalez-Osorio, K. Luong, B. Paltey, J.L. Vey. California State Univ., Northridge and Univ. of Michigan.
637. OXIDATIVE PHOSPHORYLATION
Poster
Sun. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D
Presentation time: 12:30 PM—2:00 PM

638. CELL CYCLE AND GROWTH CONTROL
Poster
Sun. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D
Presentation time: 12:30 PM—2:00 PM
C310 638.2 Regulation of AMP-Activated Protein Kinase by Cyclin-Dependent Kinase 1 in Mitosis. S.D. Stauffer, X. Chen, Y. Chen, J. Dong. Univ. of Nebraska Med. Ctr.

639. CYCLINS AND CYCLIN-DEPENDENT KINASES
Poster
Sun. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D
Presentation time: 12:00 PM—1:30 PM
C314 639.1 Tellimagrandin I Decreases Cyclin B1 Protein Levels through SP1 in MDA-MB-231 Cells. B. White, T. Luis, A. Rodriguez y Baena, L. Wang, S. Shah. San Jose State Univ.

644.7 Extracellular Adenosine-Induced Rac1 Activation in Pulmonary Endothelium: Molecular Mechanisms and Barrier-Protective Role. A. Kasa, K.M. Kim, M. Shaw, R. Batori, S. Kumar, S.M. Black, D.J. Fulon, A. Verin. Georgia Regents Univ. and Univ. of Arizona.

644.8 The Role of Molecular Chaperonin CCT and Its Co-chaperone PhLP1 in the Assembly of mTOR Complexes. M. Dhavale, R. Plimpton, T. Aoba, N. Tensmeyer. Brigham Young Univ.


645. ADAMS AND OTHER PROTEASES

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM

646. AGING

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM

646.1 The Putative Role of Lin28 in Aging of Aeolosoma viride Y.Y. Chen. Natl. Taiwan Univ.


647. APOPTOSIS AND CELL STRESS

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM–1:30 PM


647.3 Role of Endogenous Antioxidant Peroxidases in Cancer Cell Apoptosis Induced by TNF-A. S. Lee. Ewha Womans Univ., South Korea.

647.4 Caspase Activity in Early Stage Regeneration of A. viride Regulated by the Wnt/β-Catenin Signaling Pathway. S. Fok. Natl. Taiwan Univ.

647.5 Examining Apoptosis in a Sepsis Cell Culture Model. B. Davis, V. Del Gaizo Moore. Elon Univ.


647.7 Isolated Extracellular Domain of DRS Is a Potential Inhibitor of Apoptosis. N. Vunnam, J.N. Sachs. Univ. of Minnesota, Minneapolis.


647.9 CREB Regulates the Expression of PERK and IRE1α, and Controls Unfolded Protein Response under Hypoxic Conditions. K. Nakayama. Tokyo Med. and Dent. Univ.

647.10 Regulation of Protein Kinase R Activation during Cell Stress by TRBP Phosphorylation. E.E. Chuwurah, R.C. Patel. Univ. of South Carolina.

647.11 Protective Roles of Sep15 against Cataract Formation. N. Yin, K. Huang. Huazhong Univ. of Sci. and Technol., China.
649. CASPASES

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM

C349  649.1  Fine Tuning the Catalytic Activity of Caspase-3 by Phosphorylation and Site-Directed Mutagenesis of an Allosteric Site. M.E. Thomas III, C. Clark. North Carolina State Univ. and Univ. of Texas at Austin.


650. CELL PROLIFERATION

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM


C353  650.2  Effect of Covalent TAK1 Inhibitors on the Viability of Pancreatic, Renal and Colon Cancer Cells. F. Bernard, W.D. Singer, D. Gurbani, T. Li, S.M. Lim, N. Gray, K. Westover. Univ. of Puerto Rico, Univ. of Texas Southwestern Med. Ctr. and Dana Farber Cancer Inst.
653. LIPIDS AND INFLAMMATION

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM


C378 653.9 N-Docosahexaenoylthanolamine Ameliorates LPS-Induced Brain Inflammation through Suppression of Neutrophil/Macrophage as Well as Microglia Activation. T. Park, J. Lee, H. Chen, H-Y. Kim. NIAAA, NIH, Rockville, MD.


658. LIPOID TRAFFICKING
Poster
Sun. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D
Presentation time: 12:30 PM—2:00 PM


C390 658.2 The Unique Relationship between Niemann Pick Type C2 Protein and Lysobisphosphatidic Acid. A. Jochem, R. Li, S. Newton, L. McCauliff, J. Storch. Rutgers Univ. and Ctr. for Lipid Res.

C391 658.3 Screening for Genes Required for Coenzyme Q Uptake and Trafficking in Saccharomyces cerevisiae. C. Kampmeyer, A.M. James, M.P. Murphy, C.F. Clarke. UCLA and Wellcome Trust, Cambridge, U.K.

659. LIPOIDOMICS
Poster
Sun. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D
Presentation time: 12:00 PM—1:30 PM


660. MEMBRANE CONTACT SITES AND LIPOID TRAFFICKING
Poster
Sun. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D
Presentation time: 12:00 PM—1:30 PM

C394 660.1 An EE-Golgi Tether Facilitates Ceramide Transfer Out of the ER and Alleviates Ceramide Toxicity. L-K. Liu, A. Toulmay, W. Prinz. NIDDK, NIH.


C396 660.3 The Lipid Transfer Protein STAR3 Modules Intracellular Cholesterol Localization. C.L. Tomasetto, L. Wilhelm, G. Drin, F. Alpy. IGIBM, Ilkirch and IPCM, Valbonne.

C397 660.4 Molecular Determinants of the Localization of the Phosphatidylinositol/Phosphatidic Acid Transfer Protein, Nir2 to ER-PM Contact Sites. Y.J. Kim, M.L. Guzman-Hernandez, E. Wisniewski, N. Echeverria, T. Balla. NICHD, NIH.

661. PROTEIN-LIPOID INTERACTIONS
Poster
Sun. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D
Presentation time: 12:00 PM—2:00 PM


C400 661.3 HspA1A, a Seventy-kDa Heat Shock Protein, Binds to Phosphoinositides. B. Kdeiss, C. McCallister, N. Nikolaids. California State Univ. Fullerton.


C404 661.7 Studies Into the Synthetic Analogs of Key Intermediates, and Ring Precursors in the Biosynthetic Pathway of Coenzyme Q: Synthesis and Metabolism. A. Nag, C. He, J.N. Shepherd, L. Fernandez, C.F. Clarke, J.M. Villalba. UCLA, Gonzaga Univ. and Univ. of Cordoba, Spain.

C405 661.8 Saccharomyces cerevisiae Coq10, a Putative START Domain Protein Binds CoQ and Late-Stage CoQ Biosynthetic Intermediates. H.S. Tsui, C.F. Clarke. UCLA.

C409 662.4 Writing throughout the Biochemistry Curriculum: Synergistic Inquiry-Based Writing Projects for Biochemistry Students. P. Mertz, C. Streu. St. Mary’s Col. of Maryland and Albion Col., MI.


C412 662.7 Teaching Matters: Undergraduate Grant Writing Curriculum. K.R. Miller. Univ. of Mount Union, OH.

C413 662.8 A Flipped Classroom Format Enhances Learning of Molecular Biology in an Introductory, Biology Major Course at a Small Liberal Arts University. C.L. Clauson, A.C. Shor. Saint Leo Univ., FL.

C414 662.9 Increasing Integration and Retention of Metabolic Pathways by Undergraduate Biochemistry Majors through Creation of a Concept Map. V. Del Gaizo Moore. Elon Univ.


C420 662.15 Integration of Undergraduate Research into the Biomolecular Science Curriculum Using Thematically Linked Laboratory Courses in Biochemistry, Chemical Biology, and Neurobiology. R.J. Johnson, G. Hoops, J. Kowalski. Butler Univ.


663. INTEGRATING COMPLEMENTARY SKILLS INTO GRADUATE AND POSTDOC TRAINING

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM–1:30 PM


C427 663.2 Withdrawn

C428 663.3 Changing Career Prospects Are Changing the Needs in Graduate and Post-Doc Training. S.E. Feeney. Univ. of California, Davis.

664. LEARNING TOOLS IN MOLECULAR BIOLOGY AND BIOCHEMISTRY UNDERGRADUATE EDUCATION

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM–1:30 PM


C430 664.2 A Collaboration between the ASBMB and Course Source to Promote the Use of Active Learning Strategies in BMB Courses. K.M. Fox, N. Grover. Union Col., NY and Colorado Col.

C431 664.3 Using Readings and Discussion to Teach Ethics in the Undergraduate Science Curriculum. J.T. Tansey. Otterbein Univ.

665. UNDERGRADUATE RESEARCH

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM

C432 665.1 Effects of Simulated Microgravity on the Microbial Physiology of Ralstonia pickettii Isolates from the International Space Station. S.J. Fergione. Missouri Western State Univ.


C435 665.4 Characterization of Rare Oncogenic Mutations in the Kinase Domain of Epidermal Growth Factor Receptor. Z. Ruan, S. Katiyar, N. Kannan. Univ. of Georgia.

C436 665.5 Screening Unnatural Fluorescent Amino Acids for Incorporation Into E. coli Cellular Machinery. C. Mammosser, S. Dhar, B. Kelly, L. Rowe. Valparaiso Univ.

C437 665.6 Oligomerization of Wild-Type Fumarase and a Mutant Associated with Fumarate Hydratase Deficiency. A. Bulku, N. Aleksanyan, M. Berkmen. Suffolk Univ., MA.


C439 665.8 A Phenyllalanine Fiasco: The Structure of Phenylalanine Hydroxylase and Its Impact on Phenylketonuria. J. Kahn, A. Koh, R. Luckcuck, J. McNeice, E. Walter, W. Yao, A. Baxley, T. Link. Walton H.S., Marietta, GA.

C440 665.9 Design Elements of a High Enrollment Course-Based Undergraduate Research Experience May Lead to Inaccurate Student Conceptions about Scientific Research. K.M. Cooper, C. Wassef, S.E. Brownell. Arizona State Univ.

C441 665.10 Collaborative Undergraduate Research Laboratory: Engaging Students in Research Using Yeast Molecular Genetics. A.H. Makhluf, T.L. Johnson. UCLA.

C442 665.11 Transformation and Assessment Mapping of a Course Undergraduate Research Experience. K. Clase, A. Zissimopoulos. Purdue Univ. and Univ. of Chicago.


C447 665.16 Identification of Microbial Symbionts Harbored by the Chesapeake Bay Sponge, Clathria prolifera H. Kerins, K. Rubenstein, M. Hill, J.D. Dattelbaum. Univ. of Richmond.

C448 665.17 Construction of a Maltose Biosensor Using the Thermotoga maritima Maltose Binding Protein. L. Masson, J.D. Dattelbaum. Univ. of Richmond.


C451 665.20 Non-profit Patient Research Services from Rare Genomics Institute Enable Insight Into Rare Diseases through Genome Sequencing and Cloud Collaboration. B. Tucker, E. Aguilar, D. Gurnon. DePauw Univ.

666. MOLECULAR VISUALIZATION

Poster
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM


C454 666.3 Teaching Students to See Biologically Relevant Interactions When You Can't See Them: Protein Visualization Instruction in the Online Classroom. D.M. Dean. Univ. of Saint Joseph, CT.


C456 666.5 Visual Models to Use in the Classroom for Teaching Immunology Concepts. A. Williams. Univ. of Tampa.

Nutrition

667. GLOBAL NUTRITION: OBESITY, NON-COMMUNICABLE DISEASES AND THE NUTRITION TRANSITION
Poster
(Sponsored by: Global Nutrition Council)

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

D1 I 667.1 Global Food System Changes Have Created New Drivers and New Challenges for Low and Middle Income Countries. **B.M. Popkin.** Univ. of North Carolina at Chapel Hill.


D6 I 667.6 Changes in Physical Activity Patterns and Dietary Intake in Chinese Youth and Their Associations with Obesity: A Longitudinal Study in Nanjing City, China. **H. Chang, F. Xu, H. Xue, Y. Wang.** Univ at Buffalo, SUNY and Nanjing Ctrs. for Dis. Control and Prevent.

D7 I 667.7 Unhealthy Weight among Mothers and Young Children in the Middle East and North African Region. **R. Jones, S. Cunningham.** Emory Univ.


668. GLOBAL NUTRITION: NUTRITION, INFECTION AND INFLAMMATION
Poster
(Sponsored by: Global Nutrition Council)

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


D23 I 668.12 Oregano Essential Oil and Carvacrol Reduce Cryptosporidium parvum Infectivity of HCT-8 Cells. S. Gaur, T.B. Kuhlenschmidt, M.S. Kuhlenschmidt, J.E. Andrade. Univ. of Illinois at Urbana-Champaign.


669. GLOBAL NUTRITION: MEASURING AND IMPROVING THE EFFECTIVENESS OF NUTRITION PROGRAMS

Poster
(Sponsored by: Global Nutrition Council)

SUN, 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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


D30 II 669.4 Child Stunting and Maternal Undernutrition in Two Rural Ethiopian Communities Five Years after the Initiation of the National Nutrition Program. G.E. Lombamo, C.J. Henry, N. Regassa, G.A. Zello. Col. of Pharm. & Nutr., Univ. of Saskatchewan and Sch. of Nutr., Food Sci. & Technol. and Sch. of Envrn, Gender and Develop Studies, Hawassa Univ., Ethiopia.

D31 I 669.5 Barriers for Science Outreach Regarding Nutrition and Food Safety: A Qualitative Study of Teenagers in Chongqing City, China. Z. Xiang, Y. Wang, T. Song, J. Zhou, J. He, Y. Zhang. Chongqing Med. Univ., China and Univ at Buffalo, SUNY.

D32 II 669.6 Development of a Survey That Assesses Intra- and Inter-Personal Weight-Related Cognitions and Behaviors of Mothers of Young Children. J.T. Martin-Biggers, V. Quick, J. Worobey, C. Byrd-Bredbenner. Rutgers Univ.


670. GLOBAL NUTRITION: NUTRITION-SENSITIVE PROGRAMS

Poster

(Sponsored by: Global Nutrition Council)

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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


D42 II 669.16 Dorwin Lajot’s Theory of Nutritional Sedimentation Can Enlighten and Motivate Our Desire to Manage Weight or Reduce Diabetes and Any Reverse Lifestyle Related Diseases. D.Z. Lajot. DL NUTRITIONAL Consultancy and Supply, Philippines.


671. MATERNAL, PERINATAL AND PEDIATRIC: EARLY CHILDHOOD NUTRITION

Poster

Maternal, Perinatal and Pediatric RIS

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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


672. MATERNAL, PERINATAL AND PEDIATRIC: MEETING THE NUTRITIONAL NEEDS OF PEDIATRIC POPULATIONS

Poster
Maternal, Perinatal and Pediatric RIS

SUN, 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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


D72 II 672.3 Fatty Acid Composition in Feeds and Plasma of Canadian Premature Infants. J. Friel, D. Mackay, Z. Hossain. Univ. of Manitoba.


673. MATERNAL, PERINATAL AND PEDIATRIC: MAMMARY GLAND FUNCTION AND EFFECTS OF MILK COMPONENTS ON INFANT HEALTH

Poster
Maternal, Perinatal and Pediatric RIS

SUN, 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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

D74 II 673.1 Women with a Common Genetic Variant in ZnT2 (T28S) Have Altered Breast Milk Composition: Implications for Suboptimal Lactation. S. Lee, C. Dairymple, S.L. Kelleher. Penn State Hershey Col. of Med.

D75 II 673.2 Effects of Consuming Bilidobacterium longum Subspecies infantis on Intestinal Microbiota in Exclusively Breastfed Term Infants. J.T. Smilowitz, A. Fineberg, M. Underwood. Univ. of California, Davis, Sutter Davis Hlth. and Univ. of California Davis Children's Hosp., Sacramento.

D76 II 673.3 The Participation of an Infant Harbored Bacterial Commensal in Urea Nitrogen Salvaging. X. You, Y. Lyu, D.A. Sela. Univ. of Massachusetts Amherst and Univ. of Massachusetts Med. Sch.

D77 I 673.4 Milk Osteopontin Regulates Immune Responses in Mice Stimulated by Lippopolysaccharide. R. Jiang, C. Prell, B. Lönnerdal. Univ. of California, Davis and Dr. von Hauner Children's Hosp., Univ. of Munich Med. Ctr.


D80  II 673.7  Consumption of a Corn-Sugar Based Infant Formula is Associated with Higher C-Peptide Secretion Compared to Lactose Based Formula among Exclusively Formula Fed Infants. B.E. Young, M. Tang, K. Griese, N.F. Krebs. Univ. of Colorado Sch. of Med.


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

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

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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


D85  I 674.2  Therapeutic Nutritional Effect of Regular Ingestion of Non-caloric Sweeteners over Regular Ingestion of Sucrose. I. Contreras, A.J. Diaz-Sanchez, J. Gonzalez-Rangel, N. Guzman-Frias, M. Sanchez-Delgado, J.A. Estrada. Autonomous Univ. of Mexico State, Toluca.


D88  II 674.5  Anemia Prevalence and Hemoglobin Concentrations Improve in Young Children after 6 Months of Supplementation with a 21 Micronutrient-Fortified Cereal and Legume Premix in a Rural Community in Retalhuleu, Guatemala. G.A. Reinhart, A.M. Palacios, S. de Ponce, V. Alfonso. The Mathile Inst., Dayton and APEVIHS, Retalhuleu, Guatemala.


D91  I 674.8  Assessing Knowledge, Attitudes, and Practices Concerning Sodium Intake in College Students. A. Webster, C. Gibby, C. Gunther, E. Lim, A. Rose, J. Banna. The Ohio State Univ. and Univ. of Hawaii at Manoa.


D93  I 674.10  Preliminary Data from an Evidence-Based Nutrition Education and Cooking Family Meals Program for Moderately Low-Income Families with Children Aged 4-10 Years Old. C.A. Rogers, K. Pratt, J. Kennel, C. Gunther. The Ohio State Univ.


D96  II 674.13  Egg and Dairy Consumption were Not Associated with Allergic Reactions or Allergy-Like Symptoms in 6 to 9 Month-Old Infants from Rural Cotopaxi, Ecuador. A.M. Palacios, C.A. Gallegos, W.F. Waters, C. Malo, C. Lutter, C.P. Stewart, G.A. Reinhart, L.A. Iannotti. The Mathile Inst., Dayton, OH, Univ. of Texas at Austin, Washington Univ. in St. Louis, Univ. San Francisco de Quito, Pan Amer. Hlth. Org./WHO, Washington, DC and Univ. of California, Davis.


D98  II 674.15  Meal Consumption Patterns among Recipients of the School Nutrition Programme in Trinidad and Tobago. M. Francis, S. Nichols. Natl. Dietary Svcs. Ltd. and Univ. of The West Indies, Trinidad and Tobago.


D100  II 674.17  Relationship between Breast Feeding and Eating Patterns in a Rural, Mexican-Origin Population during a Nutrition Intervention. R. Cabrera, A.L. Aguilara, A. de la Torre, L.L. Kaiser. Univ. of California, Davis.

SUNDAY NUTRITION


II 674.28 Attention to Front-of-Pack Labels Is Associated with Parents’ Healthy Food and Beverage Choices for Their Children. N.N. Monalisa, T.N. Rosemond, J.F. Thrasher, J. Kim, C.E. Blake. Univ. of South Carolina.

II 674.29 Feasibility of an Online Nutrition Education eLearning Program from the Perspectives of Peer Nutrition Educators and Low-Income Individuals in Georgia. S. Stotz, J.S. Lee, H. Rong. Univ. of Georgia.


II 674.32 Wellness Program at the Workplace Promotes Healthy Eating Lifestyle: Analysis of Employee Wellness Data in a Longitudinal Retrospective Study. G.A. Soliman, J. Kim, J-M. Lee, R. High, N.K. Wehbi, J.T. Canedy. Univ. of Nebraska Med. Ctr., Univ. of Nebraska Omaha and Nebraska Med., Omaha.


II 674.35 Expectations from Low-Income Adults Regarding an Innovative Nutrition Education eLearning Program. S. Stotz, J.S. Lee, J. Hibbs, A. White. Univ. of Georgia.

II 674.36 Development of an Online Nutrition Education eLearning Program Targeted to SNAP-Ed Eligible Adults. S. Stotz, J.S. Lee, H. Rong, A. Childers. Univ. of Georgia.


675. INNOVATIONS IN UNDERGRADUATE AND GRADUATE NUTRITION EDUCATION

Poster

(Supported by Association of Nutrition Departments and Programs)

Assoc. of Nutrition Departments and Programs

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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


D128 II 675.3 Mapping Nutrition Competencies in the Foundation Years (Years 1 and 2) in Four Australian Medical Courses Using an Online Curriculum Mapping Tool. C. Nowson. Deakin Univ., Australia.

D129 I 675.4 Understanding Nutrition-Related Care in General Pediatric Outpatient Clinical Settings from the Pediatric Provider Perspective: A Qualitative Study. J.L. Kaar, S. Schivelbein, P. Gonzalez-Pacheco, K. Caponigro, A. Graham, L.S. Goodell, D.A. Thompson. Univ. of Colorado, Aurora, Metropolitan State Univ. CO and North Carolina State Univ.

D130 II 675.5 Assessment of Omega-3s Knowledge on Blood Lipids among Registered Dietitians. C. Li, D. Palmer-Keenan. Rutgers the State Univ. of New Jersey.


D134 II 675.9 Practical Usage and Educational Requirement Analysis about School Meal Menu of Middle Schools in Incheon Region. Y.A. Kim, S-K. Kang. Inha Univ. and Inha Univ. Grad. Sch. of Educ., South Korea.


D136 II 675.11 Integrating Food Insecurity Assessment in Medical School Curriculum as an Important Health Indicator. V. Uhley, A.C. Farr. Oakland Univ. William Beaumont Sch. of Med.

676. NUTRITION EDUCATION: NUTRITION EDUCATION AND BEHAVIOR CHANGE

Poster

(Sponsored by: Nutrition Education and Behavioral Science RIS)

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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


D140 II 675.15 Experiential Learning in the Undergraduate Nutrition Didactic Curriculum: Enhancing Student's Ability to Link Experience with Competencies Achieved. M.I. Scannavino. Cedar Crest Col., PA.

D141 I 675.16 Monitoring General Education Science Competencies through a Beginning Nutrition Course: Step 1, Development of Items for a Brief Assessment Quiz. A.D. Fly, L. Kurz. Indiana Univ.
677. NUTRITIONAL EPIDEMIOLOGY: ADVANCING NUTRITIONAL EPIDEMIOLOGY WITH PUBLIC USE AND COMMERCIAL DATA SETS

Poster

(Sponsored by: Nutritional Epidemiology RIS)

Sun. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D

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


D149 I 676.8 Nutrition Education for Obese Emergency Department Patients. W-J. Yen, K. Horinbo, B. Meggs, K. Myers. Indiana State Univ. and East Carolina Univ.


D151 I 676.10 Effects of an Educational Group Intervention for Patients with Type 2 Diabetes on Lifestyle and Glycemic Control. L.M. Sterpone, K. Haau-Navarro, A.B. Perez-Lizaur. Univ. Iberoamericana, Mexico City.

D152 II 676.11 Evaluating the Young Adult Motivation to Prepare Healthy Foods Questionnaire Using Exploratory Factor Analysis. A.D. Bailey, D. Miketinas, M. Cater, B. Zawodniak, G. Tuuri. LSU and LSU AgCtr.


D161 I 677.7 Characterizing Sandwich Consumption Patterns among Children Age 2-19 Years. What We Eat in America NHANES 2009-2012. K. Hoy, J.D. Goldman, R.S. Sebastian, C. Wilkinson Enns, A.J. Moshfegh. USDA, Beltsville, MD.


D163 I 677.9 Collecting Brand and Product Names in the USDA Automated Multiple Pass Method 24-Hour Dietary Recall. L.C. Steinfeldt, A.J. Moshfegh. USDA, Beltsville, MD.


D167 I 677.13 Beverage Choices among Adults and Their Contribution to Nutrient Intake. E. Parker, J. Clemens, A. Moshfegh. USDA, Beltsville, MD.


D174 II 677.20 Does the Nutrient Profile of Snacks Vary According to the Time of Day of Consumption? S.A. McNaughton, R. Leech, A. Worsley. Deakin Univ., Australia.

678. AGING: NUTRITION AND MUSCULOSKELETAL HEALTH

Poster

(Sponsored by: Aging and Chronic Disease RIS)

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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


D182 II 678.8 Exercise or Caloric Restriction Reduces Bone Resorption and Improves Cortical Bone Strength in Hyperphagic OLETF Rats. L.C. Ortinau, M. Richard, M. Linden, R.S. Rector, P. Hinton. Univ. of Missouri-Columbia.

D183 I 678.9 Effects of a High-Fat, High-Cholesterol Diet or Hyperphagia on Bone Mass, Bone Strength and Serum Turnover Markers in Male Rats. L.C. Ortinau, M. Richard, R. Dirkes, M. Linden, R.S. Rector, P. Hinton. Univ. of Missouri-Columbia.


D185 I 678.11 Insulin Resistance Negatively Influences the Muscle-Dependent Relationship between IGF-I and Bone Mass in Pre-menarcheal Girls. J. Kindler, N. Pollock, E. Laing, N. Jenkins, A. Oshri, C. Isaules, M. Hamrick, R. Lewis. Univ. of Georgia and Augusta Univ.

D186 II 678.12 Effects of a 12-Month Low-Carbohydrate Diet versus a Low-Fat Diet on Bone Mineral Density: A Randomized Controlled Trial. T. Hu, L. Yao, L. Bazzano. Tulane Univ. and Univ. of Minnesota, Minneapolis.


D190 II 678.16 Bone Mass Status Is Associated with Consumption of Dairy Foods and Fruits and Vegetables in Young Adult Uruguayan Women. R. Corres, A. Peña, C.M. Donangelo. Sch. of Nutr., Univ. de la República, Uruguay.


679. NUTRITION ACROSS THE LIFESPAN: NUTRITION, NEUROBIOLOGY, MOOD AND BEHAVIOR

Poster

(Sponsored by: Aging and Chronic Disease RIS)
(Cosponsored by: Obesity RIS and Nutrition Translation RIS)

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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


D201 I 679.3 Choline Supplementation Improves Behavioral Aspects of Mice Exposed to Ethanol In Utero. E. Pietri, N. Surzenko, C.A. Munson, S.H. Zeisel. Univ. of North Carolina at Chapel Hill, Kannapolis.


D208 II 679.10 Protein Intake and Mood: A Systematic Review. P. Pribis, Univ. of New Mexico.


D216 II 679.18 Dietary Strawberry Improves Cognition in Older Adults: A Randomized, Double-Blind, Placebo-Controlled Trial. M.G. Miller, N. Thangthaeng, T.M. Scott, B. Shukitt-Hale. USDA and Tufts Univ., Boston.
680. NUTRITION TRANSLATION: FOOD SCIENCE AND TECHNOLOGY IN NUTRITION

Poster

(Sponsored by: Nutrition Translation RIS)

Sun. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D

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


681. NUTRITION TRANSLATION: NUTRITION SCIENCE FOR PUBLIC POLICY, PRACTICE AND THE CONSUMER

Poster

(Sponsored by: Nutrition Translation RIS)

Sun. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D

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


682. MEDICAL NUTRITION: APPLIED PHYSIOLOGY, NUTRITION, AND METABOLISM

Poster

(Sponsored by: Medical Nutrition Council)

Sun. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D

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


D238  II  682.3  The Effects of Resistance Training with L-Carnitine Supplementation on Total Antioxidant Capacity and Lipid Peroxidation in Untrained Men. M. Koozehchian, E. Falah, A. Daneshfar, M. Kaveh, B.K. Sanchez, G. Owlia, A. Moosakhani, G. Nazem, N. Moradi, R.B. Kreider, Texas A&M Univ., Tarbiat Modares Univ., Iran, Karnataka Col. of Pharm., Bangalore, Texas Southern Univ., Univ. of Tehran and Azad Univ., Iran.

D239  I  682.4  Cross-Validation of Recent and Longstanding Resting Metabolic Rate Prediction Equations. K.D. Flack, W.A. Siders, L. Johnson, J.N. Roemmich. USDA, Grand Forks.


D262 II 684.11 Decreased Abundance of Firmicutes in the Gut Microbiota after Consumption of a Diet Containing Milk Fats. H. Walsh, H. Haq, L. Cersosimo, C.L. Kien, J. Kraft. Univ. of Vermont.

684. ENERGY AND MACRONUTRIENT METABOLISM: LIPID AND FATTY ACID METABOLISM AND TRANSPORT

Poster

(Sponsored by: Energy & Macronutrient Metabolism RIS)

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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


D269 I 684.7 Obesogenic Diets Enriched in Oleic Acid versus Saturated Fatty Acids Differentially Modify Polysaturated Fatty Acid Composition in Liver and Visceral Adipose. M. Picklo, E. Murphy. USDA, Grand Forks and Univ. of North Dakota.

D270 II 684.8 Mouse Carnitine Palmitoyltransferase 2 Is Required to Sustain Cardiac Function. J.M. Ellis, L.Y. Hasek, E.J. Yurovich, K.L. Harris, C.J. Goergen. Purdue Univ.


685. ENERGY AND MACRONUTRIENT METABOLISM: EMM AND THE GUT

Poster
(Sponsored by: Energy & Macronutrient Metabolism RIS)

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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


D286 II 685.4 Protein and Glutathione Kinetics in Protein Deficient Piglets with Colitis in Response to Nutritional Interventions: Protein Repletion or N-Acetylcysteine Supplementation. M. Hong, J.Y. Xiao, E. Nitschmann, L.J. Wykes. Sch. of Dietsetics and Human Nutr., McGill Univ.


686. OBESITY: BODY COMPOSITION

Poster
(Sponsored by: Obesity RIS)

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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


D292 II 686.3 The Gender Differences in the Change of Dietary Intake and Body Composition following the First Semester for Undergraduate First Year Students at a Small Liberal Arts University. J. Nunez, D. Vera, S.L. Dunn. Univ. of La Verne.


D294 II 686.5 Effects of Endurance and Strength Training and Their Combined Intervention on Body Composition of High School Students. J. He, D. Cui, Y. Sun. East China Normal Univ.

D295 I 686.6 Anthropometric Measurements Differ among Overweight and Obese Adults of Varying Socioeconomic Status but No Differences in Fruit and Vegetable Intake. Y. Rhee, K. Honrath, M.G. Wagner. North Dakota State Univ. and Concordia Col., MN.

D296 II 686.7 Long-Term Vitamin D Deficiency Decreases Bodyweight and Adipose Tissue Mass in Female Mice. A.M. Belenchia, C. Rosenfeld, S.A. Johnson, A. Kieschnick, C. Peterson. Univ. of Missouri-Columbia.


D298 II 686.9 Changes in Body Composition Despite Changes in Dietary Intake or Eating Behaviors during the Fall Semester in First Year College Students. K. Jones, D. Vera, S.L. Dunn. Univ. of La Verne.

687. OBESITY: CHILDHOOD OBESITY MANAGEMENT

Poster

(Sponsored by: Obesity RIS)

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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

D302 II 687.1 Associations between Weight-Related Variables, Gender, and Age in Overweight and Obese Preadolescents and Adolescents. E.L. Delavan, T. Crook, J. Phelps, R. Hakkak. Univ. of Arkansas for Med. Sci.


D305 I 687.4 Healthy as a Horse. H. Battisti, F. Battisti. Marywood Univ., PA, Endwell Family Physicians, NY and SUNY Broome Community Col., Binghamton.


688. DIET AND CANCER: MOLECULAR TARGETS

Poster

(Sponsored by: Diet and Cancer RIS)

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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

D308 II 688.1 Curcumin Inhibits Lymphangiogenesis In Vitro and In Vivo through Suppressing VEGF Receptor Signaling. W. Wang. Univ. of Massachusetts Amherst.


D313 I 688.6 Characterization of the Pro-inflammatory Cytokine IL-1β on Butyrate Oxidation in Colorectal Cancer Cells. M. Johnstone, A. Han, N. Bennett, C. Standifer, A. Smith, D. Donohoe. Univ. of Tennessee, Knoxville.

D314 II 688.7 Pyrogallol, a Microbial Metabolites from Mango Tannins (Mangifera indica L.) Suppresses Breast Cancer Ductal Carcinoma In Situ Proliferation in Both In Vitro and In Vivo. S.U. Mertens-Talcott, H. Kim, R. Barnes, S.T. Talcott, M. Nemec. Texas A&M Univ.


D323 I 688.16 Delta Tocotrienol Inhibit mTOR Pathway by Modulating Glutamine Uptake and Transports in Non-small Cell Lung Cancer. L.D. Rajasinghe. Wayne State Univ.
689. CARIG: BIOAVAILABILITY AND METABOLISM OF CAROTENOID AND VITAMIN A

Poster
(Sponsored by: CARIG RIS)

SUN. 9:00 AM — SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A–D

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


D325 I 689.1 Antioxidative Activity of (3R,3R') and (3S,3S') Astaxanthin in Caenorhabditis elegans X. Liu, Q. Luo, Y. Cao, X. Liu, H. Xiao. Col. of Food Sci., South China Agr. Univ. and Univ. of Massachusetts Amherst.


D327 I 689.3 Lutein Supplementation Increases Serum Brain-Derived Neurotrophic Factor in Humans. N.T. Stringham, P.V. Holmes, J.M. Stringham. Univ. of Georgia.


D332 II 689.8 Apo-10'-Lycopene Acid Inhibits Cancer Cell Migration and Angiogenesis by Suppressing Lamellipodia Formation. B. Miao, X. Fu, X-D. Wang. USDA at Tufts Univ.


D336 II 689.12 Comparison of Vitamin A Total Body Stores Calculated by Two Retinol Isotope Dilution Equations with Known Values Derived from Modeling. J.L. Ford, M.H. Green, J.B. Green, J. Novotny. Penn State and USDA, Beltsville.

D337 I 689.13 Retinoic Acid Pretreatment Promotes Vitamin A Accumulation in the Lung of Neonatal Rats. Y. Li, J.K. Urbanek, M.H. Green, L. Tan, A.C. Ross. Penn State and Univ. of Alabama.

D338 II 689.14 Selective Delivery of Xanthophylls to Human Retinal Pigment Epithelial Cells (ARPE-19) via Human Lipoproteins. S. Thomas, E.H. Harrison. The Ohio State Univ.

D345 I 690.7 Intake of 2 Eggs for Breakfast Increases Plasma Lutein Concentration in Association with Increased Large HDL and Zeta Potential as Compared to an Oatmeal Breakfast. A.C. Missimer, S. Hu, Y. Luo, C.N. Blesso, M.L. Fernandez. Univ. of Connecticut.

D346 II 690.8 Bioavailability and Biodistribution of Fluorophore-Labeled Exosomes from Cow’s Milk after Intravenous and Oral Administration in C57BL/6J Mice. S. Manca, D. Giraud, J. Zempleni. Univ. of Nebraska-Lincoln.

D347 I 690.9 Metabolic Fate of Curcumin in the Gastrointestinal Tract in Mice. Z. Li, Y. Sun, M. Song, F. Li, H. Xiao. Univ. of Massachusetts Amherst.

D348 II 690.10 The Physical Stability Comparison of Two Types of Resveratrol Nanocarriers. Y. Zu, S. Wang. Texas Tech Univ.


D351 I 690.13 Effect of Frequent Broccoli Intake on Rat Gut Microbiota Metabolism and Composition. Y. Wang, X. Liu, M.J. Miller, E.H. Jeffery. Univ. of Illinois, Urbana.


D354 II 690.16 Oat Avenanthramides Are Bioavailable in Humans after Acute Consumption of Oat Cookies. T. Zhang, J. Shao, Y. Gao, C. Chen, D. Yao, M. Wise, C. Kang, D. Yeo, L.L. Ji. Sch. of Kinesiol., Univ. of Minnesota, Minneapolis, Col. of Food, Agr. and Animal Sci., Univ. of Minnesota, St. Paul and USDA, Madison, WI.


D356 II 690.18 Efficacy of Chewing Gum as a Delivery System for Water and Fat Soluble Vitamins. W.Y.H. Khoo, J.D. Lambert. Penn State.


D360 II 690.22 Testing the Use of Urinary Biomarkers to Assess Added Sugar Intake in Obese Postmenopausal Women. K. Arnold, J. Bomser, R. Andridge, T. Orchard. The Ohio State Univ.


691. DBC: MECHANISMS OF ACTION AND MOLECULAR TARGETS OF DIETARY BIOACTIVE COMPONENTS

Poster
(Sponsored by: Dietary Bioactive Components RIS)

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

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

D363 I 691.1 Javamide-I Found in Coffee Is a Potent p38 MAP Kinase Inhibitor Suppressing MCP-1 Expression Significantly in LPS-Stimulated Monocytic THP-1 Cells. J. Park, T. Wang, USDA, Beltsville, MD.


D366 II 691.4 Zinc Transporter 7 Knockout in Mice Differentially Affects Lipid Metabolism in adipose Tissues. L. Huang, S. Tepaamormdech, C.P. Kirschke, T.L. Pedersen, W.R. Keyes, J.W. Newman. USDA, Davis and Univ. of California, Davis.

D367 I 691.5 Naringenin, a Citrus Flavanone, Enhances Isoproterenol-Stimulated Thermogenic Activation of 3T3-L1 Adipocytes. L. Zhao, J. Bae, J. Chen. Univ. of Tennessee, Knoxville.

D368 II 691.6 The Regulation in Key Protein Expression Related to Circadian Rhythms with a Natural Compound Containing Rosemary and Hemerocallis Fulva Extract In Vitro. B. Qin, T. Shea-Donohue, C. Liu, J. Quillci Timmcke, R.A. Anderson. USDA, Beltsville, MD, Ingredients.com, Columbia, TN, Univ. of Maryland Sch. of Med. and Jiangsu Province Acad. of Traditional Chinese Med., Nanjing.
D369 I 691.7 Ellagic Acid and Quercetin Are High-Affinity Ligands of Human Peroxisome Proliferator-Activated Receptor Alpha in An In Vitro Competitive Binding Assay. G. Sasaki, T. Luo, N.F. Shay. Oregon State Univ.

D370 II 691.8 Diosminet: An Anti-leukemic Flavonoid Targeting the Estrogen Receptor β S.G. Rota, A. Roma, P.A. Spagnuolo. Univ. of Waterloo Sch. of Pharm., Canada.


D372 II 691.10 Mango Polyphenols (Mangifera indica L.) and Their Microbial Metabolites Suppress Adipogenesis and Fat Accumulation by Mediating AMPK Signaling Pathways in 3T3L-1 Adipocytes. C. Fang, H. Kim, S.T. Talcott, S.U. Mertens-Talcott. Texas A&M Univ.

D373 I 691.11 Spirulina platensis Organic Extract Increases Spare Respiratory Capacity in RAW 264.7 Macrophages to Exert an Anti-inflammatory Effect. T.X. Pham, J-Y. Lee. Univ. of Connecticut.

D374 II 691.12 Potentiation of TRPM 5 Leads to Increased Taste Perception and Insulin Secretion. K. Philipppaert, R. Vennekens. Univ. of Leuven, Belgium.


D382 II 691.20 Role of Acetyl-CoA Metabolizing Enzyme ACSS2 and Dietary Acetyl-CoA Precursors in Transcription and Lipid Disorder. R. Moreau, A. Erickson, N. Bruner, M. Xia, B. He. Univ. of Nebraska - Lincoln.

D383 I 691.21 iTRAQ-Based Quantitative Proteomic Analysis of the Anticancer Mechanism of a Novel Ent-Kaurane Diterpenoid from Rubus coreiformis Linn.f. X. Chen, Z. Gao, Y.W. Ou, G. Liu, X. Gao, X. Liu, Y. Chen, L. He, H. Xiao, Y. Cao. South China Agr. Univ. and Univ. of Massachusetts Amherst.


D388 II 691.26 Activation of AMP Kinase by Zylamid, a Well-Defined Blend of Herbal Extracts. A.F. MacDonald, A.F. Han, D. Donohoe, J. Whelan. Univ. of Tennessee, Knoxville.

D389 I 691.27 Genetic Background Determines Anthocyanin Effects on Glutathione Redox Balance. K.M. Norris, R. Pazdro. Univ. of Georgia.


D395 I 691.33 Resveratrol and Pterostilbene Inhibit TNF-α Stimulated Activation of NF-κB and Its Upstream TAK1 in Macrophages via Modulation of Sphingolipids. C. Yang, Q. Jiang. Purdue Univ.

D396 II 691.34 Modulation of Serotonergic Stress Neurocircuitry by Dietary Prebiotics and Lactoferrin. M. Chichlowski, A. Mika, B. Berg, M. Fleshner. Mayo John son Nutr.. Univ. of Colorado Boulder and Univ. of Illinois at Urbana-Champaign.


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

Poster

(Sponsored by: Dietary Bioactive Components RIS)

SUN., 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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


D404 II 692.3 Omega-3 Fatty Acid-Rich Fish Oil Supplementation Prevents Rosiglitazone-Induced Osteopenia in Insulin Resistant C57BL/6 Mice. M.M. Rahman, G. Halade, P. Williams. Col. of Arts and Sci., Qatar Univ., Univ. of Alabama at Birmingham and Univ. of Texas Hlth. Sci. Ctr. at San Antonio.


D422 II 692.21 The Effect of Oil Palm Phenolics on Urinary Metabolomic Profile In Atherogenic Diet-Induced Rat Model of Alzheimer’s Disease. Y. Wu, V. Srirajavatsavai, R. Sambanthamurthi, S.V. Gupta. Wayne State Univ. and Malaysian Palm Oil Board, Kuala Lumpur.

D423 II 692.22 β-Alanine Supplementation Improved Workload Capacity and Cognitive Function of Middle Age Individuals. T. Furst, B. Williams, A. Massaro, C. Miller, P.J. Horvath. Univ. at Buffalo SUNY.


Pathology

693. EDUCATION IN PATHO BIOLOGY

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 11:45 AM–1:45 PM

A193 693.1 Specialist Program in Pathobiology: An Undergraduate Program in Mechanisms of Disease. A. Gotlieb, D. Templeton. Univ. of Toronto.

694. TRANSLATIONAL RESEARCH

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 11:45 AM–1:45 PM


A196 694.3 Intraperitoneal Post-operative Adhesions in Rats Are Worsened by Opiate Administration. G.M. Bove, S.L. Chapelle, D.J. Mokler. Univ. of New England and Squamish Integrated Hlth., Canada.


695. STEM CELLS

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 11:45 AM–1:45 PM


A200 695.2 Bone Morphogenic Protein 2 Is a Key Regulator of Spheroidal Aggregates of Mesenchymal Stem Cells K. Tamama, J. Funnell, Z. Cesnars. Univ. of Pittsburgh Sch. of Med.

696. BIOMARKERS AND TARGETED THERAPY

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 11:45 AM–1:45 PM


A206 697.1 Modeling Melanoma as In Vitro Artificial Tumor Tissues Using Natural 3D Matrix Materials. T. Lyden, M. Martin. Univ. of Wisconsin-River Falls.


A212 697.7 TIMP-2 Deficiency Alters Host Immune Response in Murine Lung Tumor Microenvironment. S.M. Jensen, S. Kumar, A. Chowdhury, B. Wei, W.G. Stetler-Stevenson. NCI, NIH, Gaithersburg, MD.


A222 698.9 Expression and Function of Androgen Receptor in Human Breast Cancer-Associated Fibroblasts: May Androgens Shape Breast Tumor Microenvironment? M. Lanzino, A. Campana, C. Giordano, I. Barone, D. Bonfiglio, S. Catalano, S. Andò. Univ. of Calabria, Italy.


A229 698.16 The Influence of the Social Support about 20s Women’s Cervical Cancer Screening Who Are Doing Physical Activities on the Screening Attitude. K. Yunhwa. Asan City, South Korea.


A233  698.20  Foxi3: A Sly Regulator of Bone Development, Promotes Prostate Cancer.  A. Mukherjee.  Troy Univ., AL.

700. LUNG PATHOBIOLOGY

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 11:45 AM—1:45 PM


A243  700.2  Losartan Blocks the Recruitment of Mast Cells in the Lungs of Rats Subjected to Fat Embolism with or without a Second Hit with LPS.  A. Poisner, S. Hamidpour, A. Ho, P. Skaria, A. Fletcher, S. Simon, A. Molteni.  Univ. of Kansas Med. Ctr. and Univ. of Missouri Kansas City.

A244  700.3  Regulation of Lysosphosphatidic Acid Receptor 1 Stability Modulates Cytokine Release in Lung Injury.  Y. Zhao, J. Wei, S. Dong, R.K. Bowser, L. Zhang, A.M. Jacko, J. Zhao.  Univ. of Pittsburgh.

A245  700.4  TGF-Beta Induces the Expression of Scleraxis in Lung Fibroblasts from Idiopathic Pulmonary Fibrosis.  M. Ramirez Aragon, M.A. Blancas Oropeza, F. Hernandez Sanchez, A. Cruz Lagunas, M.P. Czubryt, C. Mendoza Milia.  UNAM and INER, Mexico City and Inst. of Cardiovasc. Sci., Winniep, Canada.

A246  700.5  Kinetics and Implications of Germinal Center Formation in Induced Bronchus-Associated Lymphoid Tissue during Influenza Infection.  K.N. Gibson-Corley, A.W. Boyd, L. Tygrett, T.J. Waldschmidt.  Univ. of Iowa.


A248  700.7  Pulmonary Dipeptidyl Peptidase-4 Expression in Lung: Relevance in Experimental Models and for Middle East Respiratory Syndrome Clinical Disease.  D.K. Meyerholz, P.B. McCray; Jr.  Univ. of Iowa Carver Col. of Med.

701. NON-NEOPLASTIC AND ORGAN PATHOBIOLOGY POSTERS

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 11:45 AM—1:45 PM

A249  701.1  NLRP3 Inflammasome as a Novel Target for Docosahexaenoic Acid and Its Metabolites to Abrogate Glomerular Injury during Hyperhomocysteinemia.  Z. Chen, S.M. Conley, G. Li, M. Xia, T.W. Gehr, K.M. Boini, P.L. Li.  Virginia Commonwealth Univ.


Pharmacology

703. CANNABINIODS

705. HYPEREXCITABILITY AND NEUROIMMUNITY

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Neuropharmacology

Presentation time: 12:30 PM–2:30 PM


A22 705.4 The Neurotoxic Effects of Manganese on Dopamine Post-Synaptic Receptors Are Reversed by p-Aminosalicylic Acid. L. Dubose, K. Loney-Walsh, M.A. Carroll, E.J. Catapano. Medgar Evers Col., NY.

A23 705.5 Serine 216 Regulates ERα to Repress Inflammation in Microglia of Mouse Brains. S. Shindo. NIEHS, NIH, Research Triangle Park, NC.


A25 705.7 Cannabinoids Are Neuroprotective against HIV-1 Tat and Occlude the Tat-Induced Decrease in GABAergic Neurotransmission in Prefrontal Cortex Slices. C. Xu, D.J. Hermes, K. Mackie, A.H. Lichtman, B.M. Ignatowska-Jankowska, S. Fitting. Univ. of North Carolina at Chapel Hill, Indiana Univ., Virginia Commonwealth Univ. and Hebrew Univ. of Jerusalem.

A26 705.8 Long-Term Administration of Methamphetamine in Tat Mice Causes Altered Behavior and Neuroplasticity Gene Expression – Implications in NeuroAIDS. A.R. Nookala, A. Kumar. Univ. of Missouri-Kansas City.

706. NEURONAL INJURY: SCI, STROKE AND TBI

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Neuropharmacology

Presentation time: 12:30 PM–2:30 PM


A28 706.2 mTOR Pathway Inhibition Prevents Neuroinflammation and Neuronal Death in a Mouse Model of Spinal Cord Injury. E. Esposito, M. Cordaro, I. Paterniti, D. Impellizzeri, R. Siracusa, S. Cuzzocrea. Univ. of Messina and Manchester Royal Infir., Sch. of Med., Univ. of Manchester.


A30 706.4 Astrocyte Mitochondrial Trifunctional Protein Mediates the Neuroprotective Effect of Thyroid Hormone after Stroke in Mice. M. Sifuentes. Univ. of Texas Hlth. Sci. Ctr. at San Antonio.


707. DRUG AND GENE THERAPIES FOR COGNITIVE DISORDERS

Poster
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

Neuropharmacology

Drug Discovery and Development

Presentation time: 12:30 PM–2:30 PM


A38 707.4 miR-146a Contributes to Dementia-Like Pathology by Upregulation of Prion Protein in Type-2 Diabetes. A. Kalani, C.J. Mallonee, G. Chu, N. Tyagi. Univ. of Louisville.


A41 707.7 Deficiency of Macrophage Migration Inhibitory Factor Attenuates Tau Hyperphosphorylation in Mouse Models of Alzheimer’s Disease. R.D. Ye, Univ. of Macau, China.

A42 707.8 Correcting Memory Deficits in Fragile X Syndrome by Targeting Rac1/PAK1 Signaling. L. Martinez, M.V. Tejada-Simon. Univ. of Houston.


708. PARKINSON’S DISEASE THERAPEUTICS

Poster
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

Drug Discovery and Development

Presentation time: 12:30 PM–2:30 PM


709. ORPHAN GPCRS, GPCROMICS,
ADHESION GPCRS

Poster
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

Molecular Pharmacology

Presentation time: 12:30 PM–2:30 PM

A49 709.1 Loss of GGPR37 Increases Susceptibility to Demyelination. B.M. Coleman, F. Li, M.M. Giddens, R.A. Hall. Emory Univ. Sch. of Med. and Neurorepair Therapeut., Research Triangle Park, NC.

A50 709.2 Loss of Brain-Expressed Receptors GPR37 and/or GPR37L1 Results in Increased Seizure Susceptibility to Induced Seizures. M.M. Giddens, J.C. Wong, B.M. Coleman, J.P. Schroeder, E.G. Farrow, S.E. Soden, D. Weinshenker, A. Escayg, R.A. Hall. Emory Univ. and Children’s Mercy Hosp., Kansas City, MO.


A52 709.4 The BAI Sub-Family of Adhesion GPCRs: New Insights into Regulation and Signaling. R.H. Purcell, R.A. Hall. Emory Univ.
710. GPCR SIGNALING

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Molecular Pharmacology

Presentation time: 12:30 PM–2:30 PM

A60 710.1 Changes in Brainstem Protein Levels during the Development and Decay of Tolerance to Morphine: Focus on PKC&y B.G. Thompson, J.M. McKeel, D.A. Taylor. Brody Sch. of Med., East Carolina Univ.


A62 710.3 Cannabinoid Receptor 2 Stimulation Enhances Bactericidal Activity of Human Neutrophils. M.B. Wiley, V. Nizet, P.A. Insel, R. Corriden. Univ. of Mount Union, OH and UCSD.


A64 710.5 Internalization of Protease-Activated Receptor 4 Is AP-2 Dependent and Utilizes a Non-canonical Sorting Motif. T.H. Smith, L. Coronel, M. Nieman, J. Trejo. UCSD and Case Western Reserve Univ.


A81 711.6 N-Acetylcycteine Decreases the Susceptibility to Diclofenac-Induced Nephrotoxicity in Diabetic Patients. C.H. Yeh. Da-Yeh Univ., Taiwan.

A82 711.7 Renoprotective Effects of 4-Phenylbutyrate against Palmitate-Induced Renal Cell Injury. S. Munusamy, D.I. Alkhiyami, S. Berzou, A. Gholamhussain, H.A.A. Mohamed, A. Saleh. Col. of Pharm. and Col. of Arts and Sci., Qatar Univ.


712. PHARMACOKINETICS AND TOXICOKINETICS

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Drug Metabolism

Presentation time: 12:30 PM–2:30 PM


A87 712.3 Pharmacokinetics and Pharmacodynamics of Bioengineered miR-34a Prodrug. P.Y. Ho, W-P. Wang, Q-X. Chen, B. Addeppalli, P.A. Limbach, M-M. Li, J.L. Jilek, J-X. Qiu, H-J. Zhang, T. Li, T. Wun, R. DeVere White, K.S. Lam, A-M. Yu. UC Davis, Sacramento, Univ. of Cincinnati and Univ. of Buffalo.

A88 712.4 Use of Age-Dependent Carboxylesterase 1 Protein Expression to Predict In Vitro Elimination and In Vivo Pharmacokinetics of Oseltamivir in Infants. M. Boberg, A. Mehrotra, M. Vrana, B. Prasad. Univ. of Washington and Univ. of Gothenburg, Sweden.


A90 712.6 Predicting Fetal Exposure to Drugs throughout Pregnancy Using a PBPK Model. Z. Zhang, M.Z. Imperial, G.I. Patilea-Vrana, J. Wedagedera, G. Lu, J.D. Unadkat. Univ. of Washington and Simcyp Ltd (a Certara Co.), Sheffield, U.K.


A93 712.9 Distribution, Metabolism and Elimination of Opicapone in the Rats and Non-human Primates. A. Loureiro, C. Fernandes-Lopes, P. Soares-da-Silva. BIAL, Portela e Companhia SA, Coronado and Inst. of Pharmacol. and Therapeut., Porto


A95 712.11 Absence of Age-Related Differences in Internal Dosimetry of Deltamethrin at Low Exposure Levels. C. Chen. Univ. of Georgia.


713. REGULATION OF DRUG METABOLIZING ENZYMES

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Drug Metabolism

Presentation time: 12:30 PM–2:30 PM

A97 713.1 Transcriptional Regulators Predict CYP3A4 Expression in Human Pediatric Liver. C.A. Vyhildal, C. Bi, S.Q. Ye, J.S. Leeder. Children’s Mercy Hosp., Kansans City, MO.


A99 713.3 High Fat Diet Feeding Alters Expression of Hepatic Drug-Metabolizing Enzymes in Mice. M. Ning, H. Jeong. Univ. of Illinois at Chicago.

A100 713.4 Fenofibrate Upregulates SHP Expression but Does Not Alter CYP2D6 Expression. R. Kent, H. Jeong. Col. of Pharm., Univ. of Illinois at Chicago.

A101 713.5 Cholic Acid Feeding Increases CYP2D6 Expression in CYP2D6-Humanized Mice. R. Kent, X. Pan, H. Jeong. Col. of Pharm., Univ. of Illinois at Chicago.


714. CELL SIGNALING AND CANCER BIOLOGY

Poster

**Cancer Pharmacology**

*Presentation time: 12:30 PM–2:30 PM*

A109 714.1 c-Jun N-Terminal Kinase 2 Contributes to the Tumorigenesis of Non-small Cell Lung Carcinoma through MKK4-Dependent and MKK7-Independent Mechanism. T.S. Kaoud, L. Du, K.Y. Tsai, K.N. Dalby. University of Texas at Austin, Fac. of Pharm., Minia Univ., University of Texas and University of Texas MD Anderson Cancer Ctr.


A112 714.4 Impact of Palmitic Acid and α-Linolenic Acid on the β-Catenin Pathway with Inhibition of the Peroxisome Proliferator-Activated Receptor δ (PPARδ) in HCT116 Colon Cancer Cells. M.C. Myers, L. Wetmore. William Jewell Col., MO.


A114 714.6 MRTF-A and YAP Exert Dual Control in GPCR and RhoA-Mediated Transcriptional Regulation and Cell Proliferation. O.M. Yu, S. Miyamoto, J.H. Brown. UCSD.


A116 714.8 CaMKK2 Activates Oncogenic Akt in Ovarian Cancer Cells and Is a Promising Therapeutic Target. A.M. Gocher, G. Azabdaftari, L. Karacosta, T.F. Franke, A.M. Edelman. University at Buffalo, SUNY, Roswell Park Cancer Inst. and NYU.

A117 714.9 Serum Starvation Induces a Rapid Increase of Akt Phosphorylation in Ovarian Cancer Cells. S. Dai, A. Gocher, L. Euscher, A. Edelman. University at Buffalo, SUNY.


715. CANCER THERAPY AND IMMUNOTHERAPY

Poster

**Cancer Pharmacology**

*Presentation time: 12:30 PM–2:30 PM*

A120 715.1 Synergism of Aldehydes and Cytotoxic Chemotherapy. J.S. Miles, H. Flores-Rozas. Florida A&M Univ.


A122 715.3 Plasticity of Bone Marrow-Derived Dendritic Cells as Immunotherapy Vaccines. P. Jungsawadee. Sch. of Pharm., Fairleigh Dickinson Univ.


716. SEX DIFFERENCES IN CARDIOVASCULAR PHARMACOLOGY AND DISEASE

Poster

**Cardiovascular Pharmacology**

*Presentation time: 12:30 PM–2:30 PM*

A125 716.1 Sex-Based Differences in the Aortic Function of UCD-T2DM Rats: A Novel Rat Model of Type 2 Diabetes Mellitus. F. Akther, S. Shaligram, M.D. Karimi, J.L. Graham, K.L. Stanhope, P.J. Havel, R. Rahimian. Sch. of Pharm., Univ. of Pacific and Univ. of California, Davis.

A126 716.2 GPER-1 Agonist Reduces Angiotsensin-II Induced Oxidative Stress in Rat Aortic Smooth Muscle Cells. J.L. Duong, T.P. Baker, P. Katakam, S.H. Lindsey. Tulane Univ.


A134 716.10 Gender Differences in the Cardiac Action of Tyramine but Not Cathinone in the Rat. J.R. Docherty, H.A. Alsufyani. Royal Col. of Surgeons in Ireland.

717. OBESITY

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Cardiovascular Pharmacology

Presentation time: 12:30 PM–2:30 PM

A135 717.1 Buprenorphine-Induced Respiratory Depression Varies as a Function of Leptin-Related Genotype in Normal Weight and Obese Mice. C. Angel,W. Alami, S. Mihalko, H.A. Baghdoyan, R. Lydic. Univ. of Tennessee, Knoxville.


A139 717.5 Adipocyte-Derived Factors Affect Cardioprotective Programs Initiated by Short-Term High Fat Feeding. L. Haar, K. Luther, X. Ren, Y. Wang, W.K. Jones. Loyola Univ. of Chicago.


718. CARDIOMYOCYTES/HEART FAILURE I

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Cardiovascular Pharmacology

Presentation time: 12:30 PM–2:30 PM


A146 718.2 The Role of CaMKII in Angiotensin II-Induced Cardiac Inflammation and Fibrosis. A. Willeford. UCSD.


A149 718.5 Combined Treatment of Hydrogen Sulphide and Nitric Oxide Limit the Progression of Left Ventricular Hypertrophy Induced by Isoprenaline– Caffeine in Wistar Kyoto Rats. A. Ahmad, M.A. Sattar, H.A. Rathore, S.A. Khan, M. Azam, N. Abdullah, E.J. John. Univ. Sains Malaysia, COMSATS Inst. of Information Technol., Islamabad, Pakistan, Univ. of Malaya and University Col. Cork, Ireland.

A150 718.6 Disruption of Gravin’s Scaffolding Protects against Isoproterenol-Induced Heart Failure. B. McCon nell, S. Suryavanshi, F. Fa’ak, A. Diaz Diaz, S. Singh. Univ. of Houston.


A153 718.9 2-Methoxyestradiol Protect against Isoproterenol-Induced Cellular Hypertrophy in the Human Ventricular Cardiomyocytes, RL-14 Cells, through MAPK- and NF-kB-Dependent Mechanisms. Z.H. Almayaah, A.O.S. El-Kadi, Unv. of the Human.


719. CARDIOVASCULAR PHARMACOLOGY I

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Cardiovascular Pharmacology

Presentation time: 12:30 PM–2:30 PM


A157 719.3 Superoxide via Sp3 but Not NF-kB Regulates Renal AT1 Receptor Expression and Function in Human Kidney Cells. M. Saleem, M. Asghar. Univ. of Houston Col. of Pharm.


A160 719.6 Unexpected Negative Role of the AT1R Adaptor Protein βArrestin1 in the ERK1/2 Activation of SHR-Derived Primary Astrocytes. S. Negussie, A. Lymepropoulos, M.A. Clark. Col. of Pharm., Nova Southeastern Univ.

A161 719.7 Effect of Ang III on JNK Mitogen Activated Protein Kinase in Wistar Rat VSMCs. A.Z. Alanazi, M.A. Clark. Nova Southeastern Univ.


720. GI PHARMACOLOGY

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Translational and Clinical Pharmacology

Presentation time: 12:30 PM–2:30 PM


A173 720.4 The Effect of PAK1 Knockout on the Efficacy of Metoclopramide in a Murine Model of Postoperative ileus. T. Peery, O. Rivas, D. Bhattarai, K. Uray. Univ. of Texas Med. Sch. at Houston.


A179 720.10 Fibroblast Growth Factor 21 Deficiency Attenuates DSS-Induced Acute Colitis through Activation of Intestinal Epithelial Cell STAT3-Mediated Pathway. L. Liu, C. Zhao, G. Dryden, C. McClain, W. Feng. Univ. of Louisville.
721. MICROCIRCULATION: ANGIogenesis/MIcROVASCULAR REMODELING/INJURY AND REPAIR

Poster

(Sponsored by: Microcircular Society)

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


B7 721.7 Angiogenesis and Expression of IGF2R, IGF2, uPAR, and TGFβ in a Rat Obesity Model. D.S. Bayless, R.D. Sheldon, M.A. Linden, R.S. Rector, M.H. Laughlin. Univ. of Missouri-Columbia.


B9 721.9 Increased Cerebral Capillary Density in Aquaporin-4 Knockout Mouse. K. Xu, K. Almotah, Y. Zhang, T.S. Radford, X. Yu, W.F. Boron, J.C. LaManna. Case Western Reserve Univ.


722. MICROCIRCULATION:ATHEROSCLEROSIS/THROMBOSIS/PLATELETS

Poster

(Sponsored by: Microcircular Society)

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


B16 722.3 Deficiency for Smooth Muscle-Specific Insulin-Like Growth Factor 1 Receptor Increases Atherosclerotic Plaque Size and Promotes Plaque Destabilization. S. Sukhanov, Y. Higashi, P. Snarski, P. Delafontaine. Univ. of Missouri-Columbia.


B19 722.6 Platelet Adhesion to Vascular Endothelial Cells through PECAM-1 Regulates Endothelial Cell Inflammatory Responses. W. Yin, D. Meza, D.A. Rubenstein. Stony Brook Univ.


B21 722.8 Electronic Cigarette Extracts Alter Endothelial Cell Inflammatory Responses. K.E. Barber, W. Yin, D.A. Rubenstein. Stony Brook Univ.


B23 722.10 Glycated Albumin Alters Platelet Activities Associated with Cardiovascular Diseases. I. Soalta, W. Yin, D.A. Rubenstein. Stony Brook Univ.

B24 722.11 In Vivo Imaging of Infection-Induced Cogulopathy in the Microcirculation. C.N. Jenne, R.P. Davis, B. McDonald. Univ. of Calgary, Canada and Univ. of British Columbia.
723. MICROCIRCULATION: INFLAMMATION/
LEUKOCYTE-ENDOTHELIUM INTERACTIONS

Poster
(Sponsored by: Microcirculatory Society)
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B26 723.2 The Role of NADPH Oxidase Isoform 1 in L-NAME-Induced Leukocyte-Endothelial Interactions in Rat Mesenteric Postcapillary Venules. A. Zabrecky, H. Pham, A. Koon, B. Rueter, R. Barsotti, L. Young, Q. Chen. Philadelphia Col. of Osteo. Med.

B27 723.3 Molecular Mechanism of Tethers and Slings in CD4+ T Cells. M. Abadier, K. Ley. La Jolla Inst.


B31 723.7 Circulating Microparticles in Pancreatic Tumor Patients and Their Roles in Mediating Leukocyte Adhesion in Intact Microvessels. M. Zhou, S. Xu, Q. Feng, J. Wong, P. He. Penn State Col. of Med.

B32 723.8 Effect of High Fat Feeding on Inflammatory Cytokines in Obese and Healthy Children. A.S. Chiu, G. Ganesan, P. Horvath, G. Bachman, F.P. Zaldivar, P.R. Galussetti. Univ. of California, Irvine.

B33 723.9 Stimulation of Mitochondrial Fragmentation and Mitophagy by TNFα in Microvascular Endothelial Cells. T. Kalogeris, R. Korthuis. Univ. of Missouri-Columbia and Dalton Cardiovasc. Res. Ctr.


B35 723.11 Reduced Endothelial Basal Nitric Oxide Induces Leukocyte Adhesion through Src-Dependent Phosphorylation of Constitutive Intercellular Adhesion Molecule-1 B. Lucke-Wold, A. Logsdon, X. Li, S. Xu, X. Lichong, C. Siedlecki, J. Huber, C. Rosen, P. He. West Virginia Univ. Sch. of Med. and Penn State Col. of Med.


724. MICROCIRCULATION: INSTRUMENTATION,
METHODOLOGY AND EXPERIMENTAL MODELS

Poster
(Sponsored by: Microcirculatory Society)
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B39 724.3 An Experimentally-Derived Wall Shear Rate Equation for Use in Microvascular Preparations. D. Goldman, B.K. Al-Khazraji, D.N. Jackson. Univ. of Western Ontario.

B40 724.4 Circulating Microparticles in Pancreatic Cancer Patients and Their Interactions with Endothelial Cells of Engineered Microvessel Network. X. Li, M. Zhou, J. Wong, P. He. Penn State Col. of Med.

B41 724.5 The Effect of Media Type on Nerve Presence in Cultured Microvascular Networks. N.A. Hodges, R.W. Barr, W.L. Murfee. Tulane Univ.


725. MICROCIRCULATION: ISCHEMIA-
REPERFUSION/FREE RADICAL BIOLOGY

Poster
(Sponsored by: Microcirculatory Society)
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B46 725.4 Administration of Metformin during Early Reperfusion Decreases Cardiac Injury through Inhibition of MPTP Opening. E. Lesnensky, J. Thompson, Y. Hu, Q. Chen. Virginia Commonwealth Univ. and McGuire VA Med. Ctr.
726. MICROCIRCULATION: LYMPHATIC AND VENULAR FUNCTION

Poster

(Sponsored by: Microcirculatory Society)

SU N. 9:00 AM—S AN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B50 726.3 The Ca²⁺-Activated Cl Channel TMEM16A(ANO1) Modulates, but Is Not Required for, Pacemaking in Mouse Lymphatic Vessels. P. Gui, S. Zawieja, M. Li, S. Bulley, J. Jaggar, J. Rock, M. Davis. Univ. of Missouri-Columbia, Univ. of Tennessee Hlth. Sci. Ctr. and UCSF.


B54 726.7 A Novel Mouse Model of Inducible Lymphangiogenesis through Controlled Local Expression of VEGF-D. J.M. Rutkowski. Texas A&M Hlth. Sci. Ctr., College Station.


B82 728.5 Loss of Bioavailable NO with Enhanced iNOS Expression and Oxidative Stress Increase Pulmonary Arteriolar Tone in Aged Mice. R. Drinovac, R. Jagadapillai, E. Gozal, X. Lin, R. Vaishnav, R.P. Friedland, A.M. Roberts. Univ. of Louisville Sch. of Med.


729. MICROCIRCULATION I

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 pm—3:00 pm

B75 729.1 Western Diet Increases Inflammatory Responses and Atherosclerosis Progression via IGF-1 Receptor in ApoE-Deficient Mice. M. Wang, Y. Higashi, D. Wang, R. Korthuis, P. Delafontaine. Univ. of Missouri and Rock Bridge H.S., Columbia, MO.


B83 729.9 Ossified Bone Marrow Blood Vessels, Trabecular and Cortical Bone Properties and Hematological Parameters in 6- and 18-Month-Old Fischer 344 Rats. S. Guderian, S. Lee, M.A. McLane, R. Prisby. Univ. of Delaware.

730. WIGGERS AWARD FEATURED TOPIC POSTERS

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 pm—3:00 pm

731. BLOOD PRESSURE REGULATION I

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B93 731.6 Estrogen Does Not Protect Ovariectomized Mice from Increased Blood Pressure and Sodium Retention Induced by High Fructose and High Salt Diet. L. Fan, S. Saberi, A. Dehghani, C. Wataaruoca, L. Kudo, A. Rouch. Oklahoma State Univ. Ctr. for Hlth. Sci.


733. CORONARY CIRCULATION

Poster

Sun. 9:00 am—San Diego Convention Center, Exhibit Halls A-D

Presentation time: 12:45 pm–3:00 pm


B108 732.12 Smyd5 Regulates Hypertrophic Growth in the Heart. A. Anderson, M. Miller, L. Wang, S. Franklin. Univ. of Utah.

734. DIABETES AND INSULIN RESISTANCE I

Poster

Sun. 9:00 am—San Diego Convention Center, Exhibit Halls A-D

Presentation time: 12:45 pm–3:00 pm


B121 734.3 Loss of Pancreatic Mig6 Improves Glucose Homeostasis during Diet-Induced Obesity. N. Olivos, P.T. Fueger. Indiana Univ. Sch. of Med.

B122 734.4 HMGB1 Mediates Sidestream Cigarette Smoke-Induced Metabolic Disruption. O.J. Taylor, M.E. Porter, P.R. Reynolds, B.T. Bikman. Brigham Young Univ.

B123 734.5 Placental Growth Factor Expression Is Inhibited by Hyperglycemia in Cardiac Cells. F. Rouf, P.G. Lloyd. Oklahoma State Univ.


B125 734.7 Muscarinic Agonist Carbachol Restores Insulin Secretion and Abolishes Type 2 Diabetes-Like Condition in Wolfram1 Deficient Mice in Glucose Tolerance Test. M. Loomet, R. Reimets, M. Plaas, E. Vasar. Tartu Univ., Estonia.


B127 734.9 Female Farm Workers at Higher Risk for the Metabolic Syndrome and Insulin Resistance, Western Cape Province, South Africa. M.J. Kruger, T.A. Nell. Stellenbosch Univ., South Africa.


735. HEART FAILURE I

Poster

Sun. 9:00 am—San Diego Convention Center, Exhibit Halls A-D

Presentation time: 12:45 pm–3:00 pm

B129 735.1 Caveolin-3 Expression Is Increased in Anthracycline-Induced Heart Failure in Rabbits. Y. Ichikawa, A. Zemlic-Harpf, K.H. Hammond, D.M. McKirnan, H.H. Patel, D.M. Roth. VA San Diego Hlth. Care Syst., UCSD.

B131  735.3  Daunorubicin-Induced Heart Failure Elevates Hippocampal TNF-α and Caveolin-1 in Rabbids. Z. Zhang, B. Alas, A. Zemljic-Harpf, Y. Ichikawa, M.D. MicKirk, H.K. Hammond, H.H. Patel, D.M. Roth, B.P. Head. UCSD and VA Healthcare Syst.


B136  735.8  DCD Donor Heart Pathophysiology and Preconditioning. M.J. Kearsn, A. Cheung, J. Bashir, M.A. Seidman, J.H. Boyd. UBC Ctr. for Heart & Lung Innovation, Vancouver.

736.  PERIPHERAL CIRCULATION

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM

B137  736.1  Influence of Aerobic Fitness, Contraceptive Use, and Height on Cardiac Augmentation Index in Young Healthy Females. M. Smith, S. Devor. California State Univ. Chico and The Ohio State Univ.


B142  736.6  Role of Metabolic and Inflammatory Biomarkers on Femoral Artery Responsiveness in Trained Rats Fed with High-Fat Diet. M.A. Delbin, A.C.S. Sponton, H.N. Araujo, C.P. Valgas da Silva, C. de Moraes, A. Zanesco. UNICAMP, Campinas, UNESP, Rio Claro and Univ. of São Paulo, Ribireira Preto, Brazil.


B145  736.9  Endothelin-1 Receptor Responses during the Menstrual Cycle. K.N. Sebzda, M.M. Wenner. Univ. of Delaware.


737.  ROS/CV INJURY I

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B150  737.2  Contribution of Prolyl Hydroxyl Binding Proteins (PHD) to MYD88/NFkB Pathways in Nitric Oxide Deficiency-Induced Hypertensive Renal Injury. M. Choi, A. Oyekan. Texas Tech. Univ.


B153  737.5  Effects of Acute Induced Inflammation on Arterial Stiffness and Compliance in Overweight Adults. K. Bunsawat, A.D. Lane-Cordova, B. Fernhall, T. Baynard. Univ. of Illinois at Chicago and Northwestern Univ., Chicago.

B154  737.6  Tetrahydrobiopterin Prevents Congenital Heart Defects Induced by Premgestational Diabetes. A. Engineer, Y. Lim, T. Saiyin, X. Lu, Q. Feng. Western Univ., Canada.

738. SEX DISPARITIES IN CARDIOVASCULAR FUNCTION AND REMODELING

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM

B156 738.1 Nitric Oxide Synthase and Soluble Guanylyl Cyclase Mediate Endothelial Responses in Aged Female Endothelial Nitric Oxide Synthase-Deficient Mice. S.P. Didion. Univ. of Mississippi Med. Ctr.


B161 738.6 Hypertension and Type II Diabetes Are Not Associated with Visceral Inflammation or Vascular Remodeling/fibrosis in Obese Women. R. Fernandes, G.D. Fink, J.J. Galligan, S.W. Watts, C. Pereira-Hicks, R.E. Watson, H. Xu, M. Lane. Michigan State Univ.

B162 738.7 Sexual Dimorphism in Mesenteric Arterial Function of a Novel Rat Model of Type 2 Diabetes, UC Davis-Type 2 Diabetes Mellitus. S. Shaligram, F. Akther, M.D. Karimi, J.L. Graham, K.J. Stanhope, P. Havel, R. Rahimian. Univ. of the Pacific and Univ. of California, Davis.

B163 738.8 Sex Differences in the Gene Expression Profile of LOX-1 in Mouse Tissues. S.C. Kim, M.H. Hamblin. Tulane Univ. Sch. of Med.


B166 738.11 Gender Differences in Cardiomyocyte Adhesion Cause Heart Failure. G.L. Brower, Y. Du, E. Plante, J.A. Stewart; Jr., J.S. Janicki. Texas Tech Univ. Hlth. Sci. Ctr., Univ. of South Carolina, Univ. of Montreal and Mississippi State Univ.

B167 738.12 Sex Differences in the Pulmonary Artery Wedge Pressure Response to Exercise in Healthy Older Adults. S. Esfandiari, S. Wright, J. Goodman, S. Mak. Univ. of Toronto and Mount Sinai Hosp., Toronto.


739. RENAL HEMODYNAMICS

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM

B170 739.1 The Chronic Effect of Tubular pH on TGF. J. Wei, S. Wang, L. Wang, G. Zhang, J. Zhang, K-P. Yip, R. Liu. Univ. of South Florida.


B173 739.4 Development of a Novel Technique to Isolate and Characterize Mouse Podocytes. L. H. Kung, R. Wasti, A. Tibolla, G. Gibson, S. Pullen, S. MacDonnell. Boehringer Ingelheim, Ridgefield, CT.


B178 739.9 Effect of db-cAMP on Renal Interstitial Hydrostatic Pressure Response to Renal Medullary Direct Interstitial Volume Expansion (DIVE) in Rats. O. Flores-Sandoval, J.F. López-Rodríguez, M.E. Sánchez-Briones, M.Z. Calvo-Turribiartes, M. Rodríguez-Martinez. Fac. of Med., Autonomous Univ. of San Luis Potosi, Mexico.
740. DIABETIC RENAL DISEASE

Poster


B193 740.4 Essential Involvement of Purinergic Signaling in Calcium Handling in the Podocytes of Type 2 Diabetic Rats. D. Ilatovskaya, O. Polygin, A. Lowing, V. Levchenko, J. Lazar, A. Staruschenko. Med. Col. of Wisconsin.


B195 740.6 Mathematical Model-Based Analysis of the Acute and Chronic Mechanisms of Diabetic Hyperfiltration. M. Hallow, V. Vallon. Univ. of Georgia and UCSD.


B197 740.8 Renal NMDA Receptors Are Increased in the Akita Mouse Model of Type 1 Diabetes and NMDA Antagonists Reduce Diabetic Nephropathy. S.E. Dryer, E.Y. Kim, H. Roshanravan. Univ. of Houston.


B204 740.15 Stimulation of Intrarenal Endothelin B Receptors with Sarafotoxin 6c Improves Kidney Oxygenation in Rats with Diabetic Nephropathy by Augmented Oxygen Availability. S. Franzen, F. Palm. Linköping Univ. and Uppsala Univ.


Increased I-mfa in Mesangial Cells Contributes to Increased Abundance of Fibronectin Protein in Diabetic Kidney. S. Chaudhari, W. Li, Y. Wang, R. Ma. Univ. of North Texas Hlth. Sci. Ctr.


Diet-Induced Obesity and Renal Dysfunction Is Enhanced in Female Rats Exposed to Chronic Stress during Early Life. M. Murphy, C. Wills, L. Gilbert, D. Cohn, A. Loria. Univ. of Kentucky.

**MECHANISMS IN THE COLLECTING DUCT**

**Poster**

**SUNDAY PHYSIOLOGY**

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


Gβγ Signaling Regulates Aquaporin-2 Trafficking and Urinary Concentration. E.T.B. Olesen, S.B. Poulsen, N. Macaulay, T. Rieg, R.A. Fenton. Univ. of Copenhagen, Univ. Hosp. of Copenhagen, Aarhus Univ., Univ. of Denmark, VA San Diego Healthcare Syst. and UCSD.


Altered Electrolyte Homeostasis in Mice with Collecting-Duct-Principal-Cell Select Knockout of the Mammalian-Target-of-Rapamycin (mTOR) C.M. Ecelbarger, M. Byrd, S. Tiwari, L. Li. Georgetown Univ. and Sanjay Gandhi Postgrad. Inst. of Med. Sci., Lucknow.


High K* Intake Attenuates ARPKD Progression by Activation of TRPV4-Mediated Ca2+ Signaling in Cyst Cells. M. Mamenko, V. Tomilin, O. Zaika, O. Pochynyuk. Univ. of Texas Hlth. Sci. Ctr. at Houston.
742. OXIDATIVE STRESS, MITOCHONDRIAL PHYSIOLOGY AND REDOX CHANGES IN HEALTH AND DISEASE

Poster

**SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D**

Presentation time: 12:45 PM–3:00 PM


B229 742.5 N-Nitrosylation of Mitochondrial Proteins Preserves Skeletal Muscle Function from Ischemia-Reperfusion-Induced Injury. R.J. Wilson, M. Zhang, M.P. Murphy, Z. Yan. Univ. of Virginia and MRC Mitochondrial Biol. Unit, U.K.


743. MICRORNAS IN HEALTH AND DISEASE

Poster

**SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D**

Presentation time: 12:45 PM–3:00 PM


744. MICROBIOTA OR NUTRITION AND HOST CELL SIGNALING
Poster
SUN. 9:00 AM — SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:45 PM—3:00 PM

B249 744.3 Caxiella burnetii Infection of Host Cells Involves PKC Substrate MARCKS. S. Whitlock, C.J. Funk. John Brown Univ.
B251 744.5 Mechanism of Action of Lactobacillus reuteri ATCC PTA 6475 in Colon Epithelial Cells. N.D. Rios-Arce, R.A. Britton, L. McCabe, N. Parameswaran. Michigan State Univ.
B252 744.6 EriC2 Regulates Histamine Production Machinery via an Ion Transport-Dependent Mechanism in Lactobacillus reuteri A. Hall, M. Engevik, J. Versalovic. Baylor Col. of Med. and Texas Children's Hosp.

745. CELLULAR RESPONSES TO INFLAMMATION
Poster
SUN. 9:00 AM — SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:45 PM—3:00 PM

B259 745.7 Age-Related Changes in Macrophage Proliferative Capacity in Response to Chronic Inflammation and Inhaled Ozone. Z. Liu, A. Groves, T. Golden, D. Laskin, A. Gow. Rutgers Univ., Piscataway.

746. CELLULAR RESPONSE TO HYPOXIA
Poster
SUN. 9:00 AM — SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:45 PM—3:00 PM

B263 746.4 Counter-Regulation of the HIF-Dependent Adaptive Response to Hypoxia by Hypercapnia. C. Taylor, A. Selfridge, M. Cavadas, C. Scholz, E. Campbell, L. Welch, E. Lecuonah, S. Colgan, K. Barrett, P. Sporn, J. Sznajder, E. Cummins. University Col. Dublin, Univ. of Zurich, Univ. of Colorado Denver, Northwestern Univ.,Chicago and UCSD.
B266 746.7 Effect of Hypoxia on Fibroblast Proliferation in Idiopathic Pulmonary Fibrosis. L.K. Senavirathna, C. Huang, L. Liu. Oklahoma State Univ.
747. APOPTOSIS, CELL STRESS AND CELL DEATH
Poster
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:45 PM–3:00 PM
B271 747.4 Emergence of Apoptotic Features after Glicine Cytoprotection against ATP Depletion-Induced Necrotic Killing of Rat Hepatocytes. L. Li, J.J. Lemasters. Med. Univ. of South Carolina and Inst. of Theoret. and Exptl. Biophys., Moscow region, Russia.
B272 747.5 P2X Receptor Inhibition Protects THP-1 Monocytes against Cytolysis by α-Hemolysin from Escherichia coli and Leukotoxin from Aggregatibacter actinomycetemcomitans S.K. Fagerberg, M.G. Skals, H.A. Praetorius. Aarhus Univ., Denmark.
B273 747.6 Vanadium Complexes Inhibit Growth of HT-29 Cells via ROS Generation. B. Moretti, V. McCaffrey, B.J. Rabquer. Albion Col., MI.

748. STEM CELLS, CELL GROWTH, DEVELOPMENT, DIFFERENTIATION, AND AUTOPHagy
Poster
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:45 PM–3:00 PM
B280 748.6 Disruption of the Mouse Tip110 Gene Leads to Early Post-implantation Lethality and Prohibits Embryonic Stem Cell Development. A.J. Whitmill, J. He. Univ. of North Texas Hlth. Sci. Ctr. at Fort Worth.
B281 748.7 Examining the Functional Role of Fragile X-Related Protein 1 in Adult Neurogenesis. N. Patzlaff, K. Nemec, X. Zhao. Univ. of Wisconsin-Madison, Sch. of Med. and Publ. Hlth.

749. BRAIN DEVELOPMENT AND AGING
Poster
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:45 PM–3:00 PM
750. CENTRAL REGULATION OF FOOD INTAKE AND BODY WEIGHT

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM

B290 750.1 Long-Term Body Weight Regulation by the Central Melanocortin System Appears to Be Dissociated from Food Intake. I. Cote, Y. Sakarya, N. Kirichenko, D. Morgan, C. Carter, N. Tumer, P. Scarpace. Univ. of Florida.


751. CENTRAL REGULATION OF BODY FLUID HOMEOSTASIS

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B295 751.2 Brain Epithelial Sodium Channel Contributes to Thirst Stimulated by Hypertension. H.L. Nation, S.S. Simmonds, S.D. Stocker. Penn State Col. of Med.

B296 751.3 DREADD (Designer Receptors Exclusively Activated by Designer Drugs)-Induced Activation of Subfornical Organ Neurons Stimulates Thirst and Salt Appetite. M.H. Nicoleau, H. Nation, B. Kinsman, K. Browning, S.D. Stocker. Franklin and Marshall Col., PA and Penn State Col. of Med.


752. SYMPTHETIC CONTROL OF THE CIRCULATION

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B304 752.7 Ca transients in and Release of Norepinephrine from Sympathetic Varicosities in Rat Mesenteric Small Arteries – Importance for Force Development. C. Aalkjaer, O. Tarasova, H. Nilsson. Univ. of Aarhus, Denmark, Moscow State Univ. and Univ. of Gothenburg, Sweden.


753. ARTERIAL BAROREFLEX FUNCTION AND BLOOD PRESSURE REGULATION

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


754. AUTONOMIC BALANCE: SYMPATHETIC AND PARASYMPATHETIC

Poster
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:45 PM–3:00 PM

B315 754.1 Effect of Electroacupuncture on Cardiac Excitability during Sympathoexcitatory Induced by Acute Ischemia and Left Stellate Ganglion Stimulation in a Porcine Model.  W. Zhou, T. Takamiya, K. Yamamoto, A. Mahajan.  UCLA.

B316 754.2 The Correlation between Heart Rate Variability and Diet.  O. Murray, R. Vick.  Elon Univ.


B318 754.4 The Effect of Oral Hygiene on Cardiac Health as Determined by Heart Rate Variability.  E.E. Bujnowski.  Elon Univ.

B319 754.5 Analysis of Heart Rate Variability by Multiscale Entropy in Spontaneously Hypertensive Rats.  L.E.V. Silva, C.A.A. Silva, H.C. Salgado, R. Fazan; Jr.  Sch. of Med. of Ribeirão Preto, Brazil.


B321 754.7 Angiotensin-(1-7) Delays Onset of Dilated Cardiomyopathy in Mice with Muscular Dystrophy.  R. Sabharwal, L. Yang.  Univ. of Iowa.

755. CHEMOREFLEX FUNCTION AND AUTONOMIC REGULATION

Poster
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:45 PM–3:00 PM


756. SYMPATHETIC AND PARASYMPATHETIC REGULATION IN DISEASE

Poster
SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:45 PM–3:00 PM


B425 756.6 Cardiovascular Autonomic Tone in Rats with Heart Failure Treated with Allogeneic Mesenchymal Stem Cells. S.D.B.V. Morais, R.M. Lataro, C.A.A. Silva, L.S. Meirelles, R. Fazan, Jr., H.C. Salgado. Sch. of Med. of Ribeirão Preto and Lutheran Univ. of Brazil.

757. NCAR YOUNG INVESTIGATOR AWARDS

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B433 757.8 Macrophage-Dependent Impairment of α2 Autoreceptor Inhibition of Ca<sup>2+</sup> Currents in Sympathetic Neurons Contributes to Hypertension in DOCA-Salt Rats. R. Mui, R. Fernandes, J. Galligan. Michigan State Univ.


B436 757.11 Sympathetic Overactivity Contributes to the Pathogenesis of Non-alcoholic Fatty Liver Disease during Diet-Induced Obesity. C. Hurr, H. Simonyan, C.N. Young. George Washington Univ.


758. INTEGRATED RESPONSES TO HYPOXIA AND DISEASE

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


459. **INTERMITTENT HYPOXIA/OXIDATIVE STRESS**

**Poster**

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

**B446** 759.1 **Acute Effects of Intermittent Hypoxia on Leptin-Mediated Increases in Adiponectin Expression.** C. Becari, K.R. Somers, K. Polonis, M.A. Pfeifer, S. Prachi. Mayo Clinic.

**B447** 759.2 **Contrasting Effects of Acute versus Chronic Intermittent Hypoxia on Leptin Secretion in Differentiated Human Preadipocytes.** K.R. Somers, C. Becari, K. Polonis, P. Singh. Mayo Clinic.

**B448** 759.3 **Cardioprotective Intermittent Hypoxia Conditioning Induces Glyoxalase-1 in Rat Left Ventricle.** A. Ramani, G.F. Scott, A.G. Williams; Jr., M-G. Ryou, R.T. Mallet. Univ. of North Texas Hlth. Sci. Ctr., Wiley Col., TX and Univ. of Illinois at Chicago.


**760. SCHOLANDER AWARD COMPETITION**

**Poster**

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


**B452** 760.2 **Physiology and Structure of Motion-Sensitive Neurons in the Dragonfly Visual System.** B.G. Shapiro. Union Col., NY.

**B453** 760.3 **Structure and Function of Dragonfly Looming-Sensitive Neurons.** C. Slusgaski. Union Col., NY.

**B454** 760.4 **Heart Rate Response to Anthropogenic Disturbance in the Red-Eared Slider.** K.L. Florimon, C.L. Williams. Univ. of California, Irvine.
**761. ACUTE EXERCISE RESPONSES**

**Poster**

Sun, 9:00 AM—San Diego Convention Center, Exhibit Halls A-D

*Presentation time: 12:45 PM—3:00 PM*

**B471 760.21** Molecular Phenotypes of Gills from Resident Marine versus Landlocked Freshwater Three-Spined Sticklebacks (*Gasterosteus aculeatus*) J. Li, D.M. Paguio, D. Kültz. Univ. of California, Davis.


**B474 760.24** Control of Lung Ventilation after Extended Disuse Caused by Overwintering Submergence in the Bullfrog. J. Santin, L. Hartzler. Wright State Univ.

**B475 760.25** Aquatic Hypercapnia and Aerial Excretion of CO₂ in Air-Breathing Fishes. C. Jew, M. Thomsen, M. Bayley, J.W. Hicks. Univ. of California, Irvine and Aarhus Univ., Denmark.


**B478 760.28** Deiodinase Type 3 Methylation Increases in Response to Thyroid Stimulating Hormone in a Fasting Adapted Mammal. B. Martinez, N. Gemmell, D.E. Crocker, R.M. Ortiz. Univ. of California Merced, Univ. of Otago, New Zealand and Sonoma State Univ.


**B480 760.30** Effects of Hypoosmotic Stress on Cellular Proteome and Phenotype of Tilapia (*Oreochromis mossambicus*) OmB Cells. T.N. Wiegars, D. Kültz. Univ. of California, Davis.

**761. ACUTE EXERCISE RESPONSES**

**Poster**

Sun, 9:00 AM—San Diego Convention Center, Exhibit Halls A-D

*Presentation time: 12:45 PM—3:00 PM*


**B483 761.3** Comparison of Stress Response Pathways in Male and Female Athletes during Ultra-marathon Events. W. DeNeen, A.B. Jones. Northeastern State Univ.

**B484 761.4** Handgrip Exercise Increases Platelet-Bound BDNF in an Intensity-Dependent Manner. J.J. Walsh, R.F. Bentley, M.E. Tschakovskovy. Sch. of Kinesiol. and Hlth. Studies, Queen’s Univ., Canada.

**B485 761.5** Persistent Augmentation of the Blood Pressure and Heart Rate Responses to Dynamic Exercise in Rats with Chronic Bilateral Femoral Artery Occlusion. J.M. Kuczumski, K. Unrath, G.D. Thomas. Penn State Col. of Med.

**B486 761.6** A Novel Model of Weightlifting in Mice: Signaling and Gene Transcription Responses in Skeletal Muscle. D. Cui, B. Lewellen, R. Wilson, M. Zhang, Z. Yan. Univ. of Virginia, East China Normal Univ., Shanghai.

**B487 761.7** Acute Effects of Isometric Handgrip Exercise on Blood Pressure and Heart Rate Variability. B. Locke. San Francisco State Univ.


**B491 761.11** Is a 90 Min Recovery Period following Fatiguing Handgrip Exercise Enough to Ensure Maximal Performance during a Critical Impulse Test or Incremental Exercise Test? A.M. Fenuta, M.E. Tschakovskovy. Queen’s Univ., Canada.


**B494 761.14** Effects of Hypoxia with Matched Convective O₂ Delivery on Fatigue and O₂ Kinetics in Canine Skeletal Muscle In Situ. B.S. Ferguson, J.R. McDonald, F. Mowry, Y. Sun, L. Rasia, S. Porcelli, M.C. Hogan, D. Thomas, B. Grassi. Univ. of California, Irvine and Aarhus Bayley, J.W. Hicks.


762. REDUCED GRAVITY AND HYPERBARIC ENVIRONMENTS

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


763. VASCULAR RESPONSES TO EXERCISE AND ENVIRONMENTAL STRESS

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B524 763.16 Tempol Augments the Blunted Cutaneous Microvascular Thermal Reactivity in Healthy Young African Americans. C. Hur, J.-C. Patik, K.M. Christmas, R.M. Brothers. George Washington Univ., Univ. of Texas at Arlington and Univ. of Texas at Austin.

B525 763.17 Long-Term Endurance Exercise Training Ameliorates Conduit Artery Retrograde and Oscillatory Shear in Older Adults. A.C. Schneider, K. Ueda, D.P. Casey. Univ. of Iowa.


B529 763.21 Cutaneous Blood Flow during Intradermal Exogenous Nitric Oxide Administration in Young and Older Adults: Roles for Cyclooxygenase and Calcium-Activated Potassium Channels? N. Fujii, M.S. Singh, C.T. Minson, V.E. Brunt, P. Boulay, R.J. Sigal, G.P. Kenny. Univ. of Ottawa, Univ. of Oregon, Univ. of Sherbrooke and Univ. of Calgary, Canada.


764. WHAT DO BOTH MITOCHONDRIAL PROTEIN TURNOVER AND MITOCHONDRIAL FUNCTION TELL US ABOUT EXERCISE AND AGING?

Poster

SUN. 9:00 am—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 pm—3:00 pm


765. CARDIOVASCULAR ENDOCRINOLOGY, INCLUDING RAAS

Poster

SUN. 9:00 am—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 pm—3:00 pm


766. PANCREATIC HORMONES, GLUCOSE HOMEOSTASIS, AND DIABETES

Poster

Sun. 9:00 am — San Diego Convention Center, Exhibit Halls A-D

Presentation time: 12:45 pm – 3:00 pm


B555 766.2 Mitogen-Inducible Gene 6 Accelerates the Progression to Diabetes by Inhibiting EGF-Mediated Repair Mechanisms. K.M. Fong, P.T. Fueger. Indiana Univ. Sch. of Med.


B560 766.7 Paracrine GABA and Insulin Restrain Pancreatic α-Cell Proliferation in Islets of Langerhans. A.L. Feng, Y-Y. Xiang, L. Gui, Q. Feng, W-Y. Lu. Western Univ., Canada.

B561 766.8 Beta Cells Deletion of the Angiostatin-II Type 1a Receptor Differentially Influences Insulin Levels in Male and Female Mice. H. Chodavarapu, E. Lazartigues. LSU Hlth. Sci. Ctr., New Orleans.


B574 767.3 Calcium/Calmodulin-Dependent Protein Kinase II Delta – Does Ageing Mirror Disease in the Cardiovascular System? C. McCluskey, H. Salleh, S. Currie. Univ. of Strathclyde, U.K.


768. CALCIUM AND MUSCLE CONTRACTILITY

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B578 768.2 Rewarming Shock Disrupts Intracellular Ca²⁺ Homeostasis and Contractility in Cardiomyocytes. T. Hoang, N. Schaible, Y.S. Han, G. Arteaga, T. Tveita, G. Sieck. Mayo Clin. and Arctic Univ. of Norway.

B579 768.3 Jagged-1 Enhances CaSR-Induced Increase in [Ca²⁺]cyt by Promoting Recruitment of STIM2 to ER-PM Junctions. S. Song, K.M. McDermott, A. Makino, J.X-J. Yuan. Univ. of Arizona.


769. HEAT SHOCK PROTEINS AND MUSCLE FUNCTION

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


770. MUSCLE DYSFUNCTION IN DIABETES

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B587 770.2 Myostatin Inhibition as an Adjuvant Therapy in Type 1 Diabetes Mellitus. T.J. Hawke, S. Coleman, I. Rebalka, D. D’Souza, N. Deodhare. McMaster Univ., Canada.

B588 770.3 The Role of Ankrd2 in Obesity-Induced Inflammation and Insulin Resistance. A.M. Hernandez-Carretero, N. Weber, N.Y.T. Doan, O. Osborn. UCSD and Pomona Col., CA.


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

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B596 771.6 Whole Genome and RNA Sequencing Identifies Genetic Factors Involved in Neprhon Deficiency in the HSRA Congenital Solitary Kidney Rat. X. Wang, A.C. Johnson, M.R. Garrett. Univ. of Mississippi Med. Ctr.


772. CONTROL OF BREATHING: CHEMORECEPTION

Poster

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


B612 772.7 The Enhanced CO2 Chemoreflex Is Associated with Increased Number of CO2-Activated Orexin Neurons in the Lateral Hypothalamus in Spontaneously Hypertensive Rats. A. Li, E. Nattie, S. Roy. Dartmouth Geisel Sch. of Med.

B613 772.8 Orexin 1 Receptors Are Necessary for Phase-Specific Enhancement of the Hypercapnic Ventilatory Response in Female Rats Subjected to Neonatal Stress. L.T. Lopes, R. Gulemetova, G. Drolet, F. Bretzner, R. Kinkead. Laval Univ. and CHUL, Quebec City.

B614 772.9 Chronic Exposure to Elevated Ambient CO2 Influences the Orexinergic System in the Lateral Hypothalamus and Dorsocaudal Medulla. J.W. Sherwood, R.S. Beard, C.S. Landon, J.B. Dean. Univ. of Florida and Sci.

B615 772.10 Hyperoxia and Hypercapnic Acidosis Increase Free Radical Production and Cellular Excitability in Rat Caudal Solitary Complex Brain Slices. G. Ciarlone, J.B. Dean. Univ. of South Florida.

B616 772.11 Administering CO2 Anesthesia to Male Sprague-Dawley Rats Prior to Euthanasia for Postmortem Brain Slicing Alters Cardiorespiration In Vivo and O2-/CO2-sensitive Redox Signaling in Dorsocaudal Medullary Neurons in Brain Slices. G.E. Ciarlone, C.S. Landon, J.B. Dean. Univ. of South Florida.


B621 772.16 How Inhibition of CO2/H+‐Sensitive Ionic Currents Affects the Firing Rate of a Single-Neuron Model of Central Chemoreceptors? M.C. Quintero, J.M. Cordovez, R. Putnam. Univ. de Los Andes, Colombia and Wright State Univ.


773. CONTROL OF BREATHING: DEVELOPMENT

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B627 773.3 Role of Central Serotonin in Sleep Architecture and the Control of Breathing during Sleep in Adult Rats. J. Magnusson, A. Li, M. Hodges, K. Cummings. Univ. of Missouri-Columbia, Geisel Sch. of Med. at Dartmouth and Med. Col. of Wisconsin.


B629 773.5 Caffeine Improves Survival in Autosomal-Impaired Serotonin-Deficient Rats. S. Lee, E. Nattie. Geisel Sch. of Med. at Dartmouth.


B633 773.9 Thyroid Hormone Deficiency Disrupts Respiratory Control Development and Responses to Hypoxia in Newborn Rat. J-P. Rousseau, R. Kinkead. Univ. Laval, Québec.

774. LUNG PHYSIOLOGY: PULMONARY HYPERTENSION

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM

B634 774.1 Roles of Protein Kinase D in Vasocostriction and Hemodynamics. Y. Sugawara, Y. Mizuno, H. Kawakami, T. Goto. Yokohama City Univ., Japan.


B646 774.13 Hypoxia Reduces HUWE1 by Downregulating PPARγ in Mouse Lungs and Human Pulmonary Artery Endothelial Cells. B-Y. Kang, J.M. Kleinhenz, T.C. Murphy, R.L. Sutliff, C.M. Hart. Emory Univ. Sch. of Med. and Atlanta VA Med. Ctr.


B651 774.18 Canonical Transient Receptor Potential 4 Protein Encodes High Frequency Calcium Transients in Severe Pulmonary Arterial Hypertension. C.M. Francis, N. Xu, C. Zhou, T. Stevens. Univ. of South Alabama.


B653 774.20 Reduced Membrane Cholesterol following Chronic Hypoxia Limits Depolarization-Induced Ca$^{2+}$ Entry in Pulmonary Arterial Endothelial Cells. B. Zhang, J. Naik, N. Jernigan, T. Resta, B. Walker. Univ. of New Mexico.


B655 774.22 G Protein-Coupled Receptor Expression in Pulmonary Artery Smooth Muscle Cells of Human and Experimental Models of Pulmonary Arterial Hypertension. N. Aroonsakool, K. Sriram, A.V. Michkov, P.A. Insel. UCSD.


B657 774.24 Metabolic Syndrome and Heart Failure with Preserved Ejection Fraction: A New Model of Pulmonary Hypertension Associated with Left Heart Disease. F. Potus, B. Ranchoux, E. Tremblay, S. Provencher, S. Bonnet. Univ. Laval, Canada.


775. LUNG PHYSIOLOGY: VASCULAR SMOOTH MUSCLE CELL BIOLOGY, VASCULAR REGULATION, AND HYPOXIA

Poster

SUN. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM

B659 775.1 Acid Sensing Ion Channel 1 Contributes to Hypoxia-Induced Proliferation and Hypertrophy in Mouse Pulmonary Artery Smooth Muscle Cells. T.R. Yellowhair, L.M. Herbert, T.C. Resta, N.L. Jernigan. Univ. of New Mexico.

B660 775.2 Ubiquitin Proteasome System in Pulmonary Hypertension. B.E. Wade, C.M. Hart, R.L. Sutliff. Emory Univ. and Atlanta VA, Decatur.


Across Societies

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

Poster

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

T49 776.12 An Active Learning Activity Utilizing a Headline News Story to Engage Students, Enhance Interest, and Improve In-Class Learning of Cell Cycle Regulation. A.J. Dirks-Naylor. Wingate Univ.

T50 776.13 Effects of In-Class Discussion with Pre- and Post-Lecture Quizzing on Retention. C.E. Akers, K. Flann. Univ. of Portland.


T58 776.21 How Do We Train Our Future Faculty to Teach? Results from a Multidisciplinary Comparison of Pedagogy Courses Offered at a Large Midwestern University. V.D. O’Loughlin, K.D. Kearns, J.M. Robinson, C. Sherwood-Laughlin. Indiana Univ. Sch. of Med., Indiana Univ. and Indiana Univ. Sch. of Publ. Hlth.


T61 776.24 “Absolut Polycythemia”: Non-traditional Case-Based Instruction in Physiology Related to Alcohol Consumption. M.B. Harris. Univ. of Alaska Fairbanks.


Recognizing that techniques and issues related to teaching and the use of computers in research and teaching crosses all biomedical disciplines, EB 2016 has combined education posters from all participating societies. Please note: Posters are on display Sunday through Tuesday. Presentation time is for Monday only.


T39 776.2 Effectiveness and Reception of Clinical Pathophysiology Lectures for Physician Assistant Students. F.K. Johnson, M.P. Seaman. LMU-DeBusk Col. of Osteo. Med., TN.


T41 776.4 A Sustainable Medical Anatomy Program Supported with Small 3-D Printed Human Parts. S. Perez. Univ. of Arizona Col. of Med. Phoenix.

T42 776.5 In Final Examinations, Quality of Essay Plan Correlates with the Essay Mark. P. Langton. Sch. of Physiol., Pharmacol. and Neurosci., Univ. of Bristol, U.K.


T45 776.8 Students as the Unit and Instrument of Analysis for the Assessment of Advising. K.M.S. Johnson, K. Greene, E. Gutchen, R. McLeod, Z.W. Paquin, M.K.M. Young. Beloit Col., WI.


**776.27** Pros and Cons of Active Learning. T.R. Chakraborty, Adelphi Univ.

**776.28** Usefulness and Student Preferences for Interactive Pre-lecture Modules as Part of Flipped Instruction in Biomechanics. Z.J. Domire, P.M. Rider. East Carolina Univ.

**776.29** Integration of Digital/Blended Pedagogy and a Data Acquisition System to Enhance Anatomy and Physiology Laboratory Teaching for Allied Health Students: A Learner-Centric Strategy. K. Dutta. Univ. of New England.


**776.32** Use of Flipped Classroom Teaching Approach on Student Performance in Physiology. C. Gopalan. So. Illinois Univ. Edwardsville.


**776.34** Effects of a Team-Based Learning Environment on Student Outcomes in Anatomy and Physiology for First Year Pharmacy Students. H.M. Jones. Lake Erie Col. of Osteo. Med.

**776.35** Student Perceptions and Effectiveness of Team-Based Learning in an Undergraduate Anatomy and Physiology Course. S. Luckey, N. McLaughlin. Seattle Univ.

**778. BIOLOGICAL ANTHROPOLOGY**

**Poster**

**MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D**

**Evolution/Anthropology**

**Presentation time:** Odd Board # 12:00 PM—1:00 PM
Even Board # 1:00 PM—2:00 PM


**A282 778.2** Differences in Trace Elements over 10 Thousand Years: Comparison of Superficial Enamel Pb, Mn, Zn, Cu, Sr, Cd, Ba, and Ag. J. Ramos, A.S. Bilal, T.C.I. Toledo, M.A.M.S. Veiga, T.A. Maranhao, J.C. Ramos, S.R.P. Line, C. Cartelle, R.F. Gerlach. Univ. of São Paulo, Fed. Univ. of Santa Catarina, Sch. of Dent. of Piracicaba, UNICAMP and Pontifical Catholic Univ. of Minas Gerais, Brazil.

**A283 778.3** Manganese in Human Teeth. M. Jelaca-Tavakoli, R.F. Gerlach, M. Djuric. Southwestern Col., CA, Dent. Sch. of Ribeirão Preto, Univ. of São Paulo and Univ. of Belgrade, Serbia.

**A284 778.4** Preliminary Analysis of Skeletal Trauma from an Atypical Early Colonial Period Pit Burial with Comparison to Fractures Observed among Typical Late Intermediate Period (ca AD 1250) Above-Ground Tombs in the Ancash Region of Highland Peru. A. Titelbaum, B. Ibarra. Univ. of Arizona Col. of Med.-Phoenix and Tulane Univ.

**A285 778.5** Metric Variation in the Human Sacrum: Costal Process Length among Black and White South Africans. C.R. Wayne. LSU, Baton Rouge.


**777. COMPUTERS IN RESEARCH AND TEACHING**

**Poster**

**MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D**

**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 2016 has combined education posters from all participating societies. Please note: Posters are on display Sunday through Tuesday. Presentation time is for Monday only.

**T1 777.1** Adding a Checklist to the Medical Neuroscience Laboratory Guide When Using a Computer-Assisted Neuroanatomical Learning Tool. A.R. Severson. Univ. of Minnesota, Duluth.
779. FORM, FUNCTION AND MORPHOLOGY

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Evolution/Anthropology

Developmental Biology/Morphology

Presentation time: Odd Board# 12:00 PM—1:00 PM
Even Board# 1:00 PM—2:00 PM


779.7 Dental Wear, Molar Shape and Dietary Adaptation in Early Australopithecus N.M. Bauer, E.R. Middleton, C.V. Ward. Univ. of Missouri-Columbia.


779.9 Cervical Vertebral Morphology and Neck Mobility in Gibbons (Hylobates lar) and Humans. N. Grider-Potter, R. Goto, Y. Nakano. Sch. of Human Evol. and Soc. Change, Arizona State Univ. and Osaka Univ.

779.10 Hippopotamus (Hippopotamus amphibius and Choeropsis liberiensis) Shoulder Osteology and Function Compared with Suids (Sus scrofa, Phacochoerus aethiopicus, Potamochoerus porcus and Hylochoerus meinertzhagenii) and Tayassuids (Tayassu pecary and Tayassu tajacu) V.L. Naples. Northern Illinois Univ.

81. ANATOMY EDUCATION: FIXATION TECHNIQUES/PRESERVATION MODALITIES

Poster
MON. 9:00 AM — SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Education and Teaching
Presentation time: Odd Board# 12:00 PM—1:00 PM
Even Board# 1:00 PM—2:00 PM


A323 780.8 Pole-Shark (Galeorhinus galeus): Seriated CT-Scanned Cross-Sections Every 1mm of the Rostral Extremity and Reconstructions. P.P. Le Floch-Prigent, S. Verdelille. Versailles-Saint Quentin Univ. and CIMOP, Saint-Cloud, France.


A329 782.3 A Comparison of Student Approach to Learning between Dissection- and Prosection-Based Undergraduate Human Anatomy Courses. S.C. McWatt, G.S. Newton, L.C. Jadeski. Univ. of Guelph, Canada.


A331 782.5 Prosection-Based Gross Anatomy Lab for Dental Students. L.E. Sanders, G. Dorius, D.A. Morton, D.A. Hutcheson. Univ. of Utah.


A335 782.9 Pilot Study: Integration of 3-D Dissection Table into Undergraduate Gross Anatomy Course. C.O. Lane; Jr. Prairie View A&M Univ.


83. ANATOMY EDUCATION: LABORATORY TEACHING STRATEGIES

Poster
MON. 9:00 AM — SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Education and Teaching
Presentation time: Odd Board# 12:00 PM—1:00 PM
Even Board# 1:00 PM—2:00 PM


A339 783.3 The Use of a Checklist to Increase the Quality of Student Dissections in Medical Gross Anatomy Labs. E. Johnson, J. Foster. Alabama Col. of Osteo. Med.


A341 783.5 Assessing Formative Feedback after Table Conferences in the Icahn School of Medicine’s Structures Course. P. Maffucci, B. Laitman, J. Laitman. Icahn Sch. of Med. at Mount Sinai.
784. ANATOMY EDUCATION: COMPARATIVE APPROACHES

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Education and Teaching
Presentation time: Odd Board# 12:00 PM–1:00 PM
Even Board# 1:00 PM–2:00 PM


785. ANATOMY EDUCATION: TEACHING AND LEARNING STRATEGIES/METHODS

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Education and Teaching
Presentation time: Odd Board# 12:00 PM–1:00 PM
Even Board# 1:00 PM–2:00 PM


A347 785.2 A Short Mindfulness Activity to Reduce Anxiety State of Dissection and Prosection Students Prior to Their First Cadaver-Based Laboratory Experience. W. Albabish, J. Bigg, G.S. Newton, L. Jadeski. Univ. of Guelph, Canada.


A349 785.4 Seeing Is Knowing: Instructor Perceptions of Teaching an Online Undergraduate Anatomy Course with Laboratory. S.M. Attardi, N.M. Mintz, J. Barnett, K.A. Rogers. Western Univ., Canada and Oakland Univ. William Beaumont Sch. of Med., WI.

A350 785.5 Anatomists as Coaches for Developing Clinical Professionals. L.J. Rizzolo. Yale Univ.

786. ANATOMY EDUCATION: CURRICULUM DESIGN AND EFFECTIVENESS

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Education and Teaching
Presentation time: Odd Board# 12:00 PM–1:00 PM
Even Board# 1:00 PM–2:00 PM

A369 786.4 Effectiveness of a Course Utilizing Cadaver-Based Dissection in Preparation for Gross Anatomy as Perceived by Undergraduate Students upon Entry to Professional School. J. Dennis, A. Barry. Missouri So. State Univ.
A370 786.5 What to Teach or Not to Teach, That Is the Question: Anatomy Objectives in a Modern Medical Curriculum. N. Metti, F. Anwar, V. Lyons, M. Bee. Univ. of Detroit Mercy and Geisel Sch. of Med., Dartmouth Univ.

787. ANATOMY EDUCATION: CLINICAL SKILLS

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Education and Teaching
Presentation time: Odd Board# 12:00 PM–1:00 PM
Even Board# 1:00 PM–2:00 PM

A373 787.3 Preliminary Multi-site Usage for the Online ‘Medical Imaging Solution for Teaching and Research’ Y. Carter, J. Costa, B. Burbridge. Univ. of Massachusetts Med. Sch. and Univ. of Saskatchewan Col. of Med.
A374 787.4 Assessing Simulation-Based Interventional Angiography Training in Novices. O. Zaika, M. Boulton, R. Eagleson, S. de Ribaiapierre. Western Univ., Canada.

788. ANATOMY EDUCATION: OUTREACH

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Education and Teaching
Presentation time: Odd Board# 12:00 PM–1:00 PM
Even Board# 1:00 PM–2:00 PM

Biochemistry and Molecular Biology

789. DNA REPAIR MECHANISMS

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM—2:00 PM

C1 789.1 Identifying the MAP Kinase Stl2/Mpk1 as a New Interacting Protein for Mm. s2 G. Kung, Y. Wang. Saint Louis Univ.


790. DNA REPLICATION MECHANISMS

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM—2:00 PM


791. BASE EXCISION REPAIR

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM—1:30 PM

C7 791.1 Acetylation of DNA Polymerase Beta Regulates the Choice of the Base Excision Repair Pathway. O.K. Howald, L. Balakrishnan. Indiana Univ.-Purdue Univ. Indianapolis.


792. CONTROL OF DNA RECOMBINATION

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM—1:30 PM


793. DNA REPLICATION, REPAIR AND RECOMBINATION

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM—2:00 PM


C14 793.3 Acetylation of Replication Protein A Improves Its DNA Binding Property. S. Surendran, O.E. Ononye, L. Balakrishnan. Indiana Univ.-Purdue Univ. Indianapolis.

C15 793.4 Early Replication Stress Leads to Abnormal Mitosis and Genome Rearrangement. S. Forsburg. Univ. of So. California.

C16 793.5 Instability within the Coding Sequence of the Repetitive RNA Polymerase II C-Terminal Domain. A.E. Exner, S.M. Fuchs. Tufts Univ.

C17 793.6 How DNA-Damage Machinery Protects the Genomes of Mouse Oocytes. V.S. Rinaldi, E. Bolcun-Filas, J. Schimenti. Cornell Univ. and The Jackson Lab., Bar Harbor, ME.

794. MECHANISM OF DNA RECOMBINATION

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM—2:00 PM

795. MISMATCH REPAIR
Poster
Mon. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D
Presentation time: 12:00 PM–1:30 PM
C19 795.1 Investigating the Intersection between DNA Mismatch Repair and Triplet Nucleotide Repeat Expansion. S. Kutlu, B. Case, M. Hingorani. Wesleyan Univ., CT.

796. NON-HOMOLOGOUS END JOINING
Poster
Mon. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D
Presentation time: 12:00 PM–1:30 PM
C20 796.1 DNA Repair Proteins XLF and XRCC4 Interact with Telomeric Proteins TRF1 and RA. P1 E.A. Castle, P. Zaibaq, Q-K. Pham, Y. Aviles, J. Hou, K.T. Vu, N. Fahmy, M. Guirette, A. Ruff, R. Jain, J. Jabbur, A. Ribes-Zamora. Univ. of St. Thomas, Houston Houston Community Col.

797. NUCLEOTIDE EXCISION REPAIR
Poster
Mon. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D
Presentation time: 12:30 PM–2:00 PM
C21 797.1 Understanding the Efficacy of Inhibitor TRDL-551 on Replication Protein A Binding Affinity. J. Kaur, L. Balakrishnan. Indiana Univ.-Purdue Univ. Indianapolis.

798. REPLICATION FORK DYNAMICS
Poster
Mon. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D
Presentation time: 12:30 PM–2:00 PM

799. SIGNALING RESPONSES TO DNA DAMAGE
Poster
Mon. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D
Presentation time: 12:00 PM–1:30 PM
C33 802.6 Transcriptional and Post-transcriptional Regulatory Mechanisms Lead to Metabolic Adjustment in Response to Glucose Availability. A.H. Munshi, J.M. Claggett, T.L. Johnson. UCLA.


C36 802.9 Regulation of Hepatic Mouse Major Urinary Protein Genes by the Zinc Finger and Homeoboxes 2 and Alpha-Fetoprotein Regulator 2. J. Jiang, K.T. Creasy, M.L. Peterson, B. Spear. Univ. of Kentucky.


803. TRANSCRIPTIONAL REGULATORY MECHANISMS

Poster

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM—1:30 PM


C42 803.5 Defining a Transcriptional Regulatory Network for Peroxisome Biogenesis. E.A. Paz, T. Gaasterland, A. La Spada. UCSD.

C43 803.6 Analysis of Nuclease Hypersensitive- Equivalent Sites in SV40 by Next Generation Sequencing. B. Milavetz, L. Balakrishnan, B. Woods, K. Christensen. Univ. of North Dakota and Indiana Univ.-Purdue Univ. Indianapolis.


804. NON-CODING RNAs

Poster

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM—1:30 PM


C54 804.2 Long Non-coding RNA GAS5 Suppresses TGFβ-Smad Signaling via Intrinsic rSBE Elements. R. Tang. Univ. of Georgia.


C56 804.4 AFP Anti-sense Transcripts in Mouse Liver and Their Potential Role in Gene Regulation. M.S. Dixon, Qiu, B.T. Spear, M.L. Peterson. Univ. of Kentucky.

C57 804.5 Zhx2 and the Regulation of AFP Anti-sense RNAs in Mouse Liver. G. Qiu, M. Dixon, B. Spear, M. Peterson. Univ. of Kentucky.


C59 804.7 Non-coding RNA Regulations in Pseudomonas aeruginosa M.C.B. Ammons. Montana State Univ.
805. RIBOSWITCHES
Poster
Mon. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D
Presentation time: 12:30 PM–2:00 PM

806. RNA EDITING AND MODIFICATION
Poster
Mon. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D
Presentation time: 12:30 PM–2:00 PM

807. RNA MODIFICATION: MECHANISM AND FUNCTION
Poster
Mon. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D
Presentation time: 12:00 PM–1:30 PM
C67 807.3 Expanding the Roles of tRNA Thiolation in Bacteria: Involvement of 2-Thiouridine tRNA in Signaling Bacterial Sulfur Metabolism. K.A. Black, N.J. Kus, P.C. Dos Santos. Wake Forest Univ.

808. RNA TURNOVER
Poster
Mon. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D
Presentation time: 12:00 PM–1:30 PM
C70 808.2 Withdrawn
C71 808.3 Determining the Effect Nutrient Availability Has on the Activity of the 3′-5′ Exoribonuclease Rp6 T. Ryan, K.P. Callahan. St. John Fisher Col., NY.
C72 808.4 Vacuolar Turnover of rRNA Mediated by an Autophagy-Dependent Mechanism Is Necessary to Maintain Cellular Homeostasis. G.C. MacIntosh, B. Floyd, S. Morriss, D. Bassham. Iowa State Univ.
C73 808.5 Effects of Aging and Nitrogen Deprivation on Nonfunctional rRNA Decay in Saccharomyces cerevisiae D. Zekan, F.J. LaRiviere. Washington and Lee Univ.
C74 808.6 The Effect of Ultraviolet Stress on Nonfunctional rRNA Decay. K.J. Villarroel Gomez, F.J. LaRiviere. Washington and Lee Univ.
C75 808.7 Ascertaining a Role for Rnp1p in Post-transcriptional Gene Control in S. cerevisiae K.E. Mackay, S.P. Segal. Winona State Univ.

809. BUILDING MOLECULAR MACHINERY
Poster
Mon. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D
Presentation time: 12:30 PM–2:00 PM
C79 809.2 Development of a Natural Protein Synthesis System from Pseudomonas aeruginosa C. Hughes, Y. Escamilla, Y. Hu, J.M. Bullard. Univ. of Texas Rio Grande Valley, Edinburg.
810. CHAPERONES

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

Presentation time: 12:30 PM—2:00 PM

C81 810.1 Exploring GTP Control of Bacterial Respiratory System Specific Chaperone Interaction with Its Substrate Protein’s Twin-Arginine Signal Peptide. S.J. Cherak, R.J. Turner. Univ. of Alberta and Univ. of Calgary, Canada.

C82 810.2 The Production of Extracellular Vesicles Is Increased after Heat Shock. A. De Maio, D. Hawisher, B. Lara, D.M. Cauvi. UCSD.

811. MOLECULAR CHAPERONES: MECHANISM AND FUNCTION

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

Presentation time: 12:00 PM—1:30 PM


C88 811.6 Functional Cooperativity between the Trigger Factor Chaperone and the ClpXP degradation System. W.A. Houry. Univ. of Toronto.

812. GENETIC STUDIES OF PROTEIN SYNTHESIS

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

Presentation time: 12:00 PM—1:30 PM


813. PROTEASES IN DISEASE

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

Presentation time: 12:30 PM—2:00 PM

C90 813.1 Testing Specificity of Commercially Available Nicastrin Antibodies. J. Hatter, D. Dries. Juniata Col., PA.

C91 813.2 A Trypsin-Like Protease from Alternaria alternata Allergens Promotes Airway Inflammation through Activation of Protease-Activated Receptor-2/β-Arrestin Signaling. M.C. Yee, H.L. Nichols, K. Pal, D. Polley, K.J. Lee, M. Ming, M.D. Seigler, M.D. Hollenberg, M.O. Daines, S. Bottano, K.A. DeFea. Sch. of Med., Univ. of California, Riverside, Univ. of Calgary, Canada and Univ. of Arizona.


C93 813.4 Comparison between hPEP and spPEP Inhibition When Varying Size and Position of Inhibitory Peptide of Casein α s1 A.K. Vishram, B.A. Clack. Stephen F. Austin State Univ.


814. PROTEIN AGGREGATION AND AMYLOID DISEASES

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

Presentation time: 12:30 PM—2:00 PM


816. PROTEIN TURNOVER AND QUALITY CONTROL

Poster

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM–1:30 PM


C106 816.2 Expression of Herpud1 during Osteoclast and Osteoblast Differentiation. C. Quiroga, L. Americao Da Silva, G. Mansilla, I. Oyarzún, M. Bustamante, P. Castro, H. Verdejo. Pontifical Catholic Univ. of Chile, Santiago.

C107 816.3 A Hect Domain Ubiquitin Ligase Mediates the Degradation of Unassembled Nuclear Proteins in Mammalian Cells. Y. Xu, Y. Ye. NIDDK, NIH.

C108 816.4 Structural Determinants of human Tryptophan 2,3-Dioxygenase Protein Degradation. S. Kim, S. Karkashon, S-R. Yeh, M.A. Correia. UCSF and Albert Einstein Col. of Med.


817. PROTEIN TURNOVER IN CELL REGULATION

Poster

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM


818. SYSTEMS BIOLOGY OF CELLULAR NETWORKS

Poster

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM

C112 818.1 Skeletal Muscle Wasting and Inflammatory Regulation by Ovarian Function and IL-6 in Tumor Bearing Mice. O. Reszczynski, A. Saum, K. Hetzler, J. Carson. Univ. of South Carolina.


C120 819.7 The Transcription Factors Swi4 and Hap4 Contribute to the Regulation of the Transcriptional Response to Cold Shock in Saccharomyces cerevisiae K.W. Wylie, K.P. McGee, M.V. Hong, K.D. Dahlquist. Loyola Marymount Univ.


C127 819.14 Information Extraction from Native Mass Spectra. S. Guan. UCSF.

C128 819.15 Evolutionary and Comparative Genome Analysis of Phage NAD Metabolic Genes. L. Sorci, M.D. Kazanov, S. Gerdes. Marche Polytech Univ., Italy. Russian Acad. of Sci., Moscow and Argonne Natl. Lab., IL.


820. TOXICOGENOMICS
Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:00 PM–1:30 PM

C130 820.1 Using a Toxicogenomic Approach to Understand How Silver Poisons the Bacterial Cell. J. Lemire, K. Chatfield-Reed, G. Chua, R.J. Turner. Univ. of Calgary, Canada.

821. WHOLE PROTEOME PROFILING
Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:30 PM–2:00 PM


822. MASS SPECTROMETRY
Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:30 PM–2:00 PM


823. NANOTECHNOLOGY
Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:00 PM–1:30 PM


824. NEW MOLECULAR AND CELLULAR IMAGING AGENTS
Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:00 PM–1:30 PM


825. PROTEIN CHEMISTRY

Poster

Mon. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D

Presentation time: 12:30 PM–2:00 PM


C142 825.3 Development of “Inside-Out” PEGylated Crosslinked Hemoglobin Polymers: A Novel Hemoglobin-Based Oxygen Carrier. K.D. Webster, D. Dahhan, C. Frosti, W. Dean, J.B. Chaires, K.W. Olsen. Loyola Univ. Chicago and Univ. of Louisville.

C143 825.4 Novel Anti-cariogenic Phosvitin-Phosphopeptides Produced by Hydrostatic Pressure Combined with Enzymatic Hydrolysis. H. Yoo. Univ. of Alberta.

826. PROTEIN/PEPTIDE SEPARATION

Poster

Mon. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D

Presentation time: 12:30 PM–2:00 PM


827. RECOMBINANT DNA TECHNOLOGY

Poster

Mon. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D

Presentation time: 12:00 PM–1:30 PM


828. GENOMICS/TRANSCRIPTOMICS IN DISEASE

Poster

Mon. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D

Presentation time: 12:00 PM–1:30 PM

C146 828.1 Analysis of Myogenic Markers in Duchenne’s Muscular Dystrophy Cell Models. M. Harnois, M. Pincus, E. Powers, V. Badarinarayana. Univ. of Arizona and Sanofi, Oro Valley, AZ.


C148 828.3 Noninvasive Detection of Fetal Subchromosomal Abnormalities by Semiconductor Sequencing of Maternal Plasma DNA. D.D. Zhang, K. Zhang. UCSD.

829. INTEGRATIVE OMICS BIOINFORMATICS

Poster

Mon. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D

Presentation time: 12:30 PM–2:00 PM


830. METABOLOMICS

Poster

Mon. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D

Presentation time: 12:30 PM–2:00 PM


C151 830.2 A Metabolomics Investigation of the Physiological Component of the Innate Immune Response in Raw264.7 Macrophages Treated with Nitric Oxide Inhibitors. A. May, J. Wepy, L. Marnett. Vanderbilt Univ.
831. OMICS
Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D
Presentation time: 12:00 PM—1:30 PM

C152 831.1 Simultaneously Revealing All Lysine Acylations in an Organism to Elucidate Substrate Metabolism. H.H.T. Nguyen, J.A. Loo, R.R. Ogorzalek Loo. UCLA.


832. OMICS AND THE DEVELOPMENT OF PERSONALIZED MEDICINE
Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D
Presentation time: 12:00 PM—1:30 PM


833. ENZYME DYNAMICS AND ENZYME MOTIONS
Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D
Presentation time: 12:30 PM—2:00 PM

C157 833.1 Investigating the Role of the Primer-Template Terminus in the Conformational Dynamics of Bacillus stearothermophilus DNA Polymerase I Using FRET. T.D. Christian, W. Konigsberg. Yale Univ.


C159 833.3 Evolution of Phospholipases A2 in Catalysis and Allosteric Regulation by Membranes. V.D. Mouchlis, J.A. McCammon, E.A. Dennis. UCSD.

834. ENZYME KINETICS
Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D
Presentation time: 12:30 PM—2:00 PM

C160 834.4 Ramachandran Outliers in Ligand-Induced Protein Structural Changes. K.H.J. West, W.R.P. Novak. Wabash Col., IN.

C161 834.5 Conservative Substitutions of Buried Amino Acid Residues Distant from the Active Site of Horse Liver Alcohol Dehydrogenase Have Small Effects on Structure, Catalysis and Dynamics. B.V. Plapp, K. Shanmuganatham, R.S. Wallace, A.T-I. Lee. Univ. of Iowa.

C162 834.6 Large Scale Structural Rearrangement Provides Dual Control Over the Catalytic and Membrane Binding Activity of a Bacterial Serine Hydrolyase. R.J. Johnson, M. Smith, W. Hart. Butler Univ.

C163 834.7 Dynamic Equilibria Studies of FTT258, a Serine Hydrolyase from Francisella tularensis P. Rabin, R.J. Johnson. Butler Univ.

C164 834.8 Dissociation Constants for Reversible Homodimers of Recombinant Monomeric Human Acetylcholinesterase. Z. Radic. Skaggs Sch. of Pharm. and Pharmacuet. Sci., UCSD.

C165 834.9 Overlay Independent Comparison of Acetylcholinesterase 3D Structures Reveals Ligand-Specific Backbone Changes upon Reversible and Covalent Binding. Z. Radic, J. Rohrer, M. Sidhom, J. Han. Skaggs Sch. of Pharm. and Pharmacuet. Sci., UCSD.

C166 834.10 Structural and Functional Analysis of Acetylcholinesterase Complexes with In Situ Click-Chemistry Inhibitors. P. Marchot, K.B. Sharpless, P. Taylor, Y. Bourne. CNRS, Aix-Marseille Univ, The Scripps Res. Inst. and Skaggs Sch. of Pharm. and Pharmacuet. Sci., UCSD.
**BIOCHEMISTRY MONDAY**

**C174 834.8** Characterization of a Novel Flavin-Dependent Monoxygenase in *Bacillus niacin* M.A. Dasovitch, M.J. Snider, M.T. Peterson. The Col. of Wooster, OH.

**C175 834.9** Characterization and Identification of Metabolites in the Oxidation of Nicotinic Acid by *Bacillus niacin* N.P. Lesner, M.T. Peterson, M.J. Snider. The Col. of Wooster, OH.

**C176 834.10** Biodiesel Production via Genetically Altered Lipase from *Proteus mirabilis* Transesterification in Methyl Acetate. A.N. McDonnell, J. Altier, D. Carey, D.S. Witherow. Univ. of Tampa.

**C177 834.11** Coevolution and Disease-Causing Mutations in Glucose-6-Phosphate Dehydrogenase. A. Cunningham, A. Colavin, K.C. Huang, D. Mochly-Rosen. Stanford Univ.

**C178 834.12** Mutational Analysis of the Catalytic Mechanism of a Peroxidase Enzyme from the Diatom *Thalassiosira pseudonana* E. Bourdeaux, S. Rampur, K. Frato. Seattle Univ.

**C179 834.13** Understanding the Ability of Heavily Contaminated Soil to Sustain Enzyme Function. D. LeRoux. Montclair State Univ.

**C180 834.14** Fluorescent Assay of Ubiquitin Conjugation. C. Jackson, C. Berndsen. James Madison Univ.

**C181 834.15** Transition Metal Cation Inhibition of *Mycobacterium tuberculosis* Esterase Rv0045c. B. Lancaster, G. Hoops, R.J. Johnson. Butler Univ.

**C182 834.16** Structural and Biochemical Characterization of AidC, a Quorum-Quenching Lactonase with Atypical Selectivity. R.N. Mascarenhas. Loyola Univ. Chicago.

**C183 834.17** Fluorophore Conjugation to Substrates Affects Lysine Deacetylase Activity and Specificity. T.B. Toro, T.J. Watt. Xavier Univ. of Louisiana.

**C184 834.18** Probing the Role of a Catalytic Residue in a Lysine Deacetylase. K.A. Nichols, T.B. Toro, T.J. Watt. Xavier Univ. of Louisiana.

**C185 834.19** Impact of a KDAC4 Active Site Residue on Activity and Specificity. J.R. Bryant, T.B. Toro, T.J. Watt. Xavier Univ. of Louisiana.

**C186 834.20** Substrate Specificity of the Rv0045c Hydroxase from *Mycobacterium tuberculosis* G.C. Hoops, A.D. White, R.J. Johnson. Butler Univ.

**C187 834.21** Investigating the Half-Life Reactivity of a Member of the PNDOR Family of Proteins. W. Li, D. To, J. Lee, E.J. Crane, M. Sazinsky. Pomona Col., CA.

**C188 834.22** The Role of Aspartate 141 in the Regulation of the *Agrobacterium tumefaciens* ADP-Glc Pyrophosphorylase. H.P. Patel, L. Gonzalez-Martín, V. Renata, M. Ballicora. Loyola Univ. of Chicago.

### 835. REGULATION AND ALLOSTERISM

**Poster**

**MONDAY**

**C189 835.1** Examination of the Mechanism of Intersubunit Communication in Pyruvate Carboxylase Using Mixed Hybrid Tetramers. L.E. Westerhold, T.N. Zeczycki. Brody Sch. of Med. at East Carolina Univ.

**C190 835.2** Control of Enzyme Function through Loop Dynamics. C.N. Chi, B. Vogeli, S. Bibow. ETH, Zurich.


**C194 835.6** Decoupling the Allosteric Activation of Ubiquitin Specific Protease 7 by Its Ubiquitin-Like Domains for the Development of Small Molecule Inhibitors. N.M. Hjortland, A. Pepe, K. Molland, A. Mesecar. Purdue Univ. and Cook Biotech, West Lafayette.

**C195 835.7** Unexpected pH-Dependent DNA Binding of CooA, a CO-Sensing Transcription Factor from *Rhodospirillum rubrum*. B.R. Weaver, R.M. DeVries, A.J. Gunter, R.W. Clark. Valparaiso Univ.

**C196 835.8** The *Agrobacterium tumefaciens* ADP-Glucose Pyrophosphorylase G329D Mutant Exists in a Pre-activated State. B.L. Hill, R. Mascarenhas, A.M. Koenig, F. Huerta, S. Khan, A.A. Iglesias, D. Liu, M. Ballicora. Loyola Univ. Chicago and Univ. of Buenos Aires.

**C197 835.9** Regulation of N-Myristoyltransferase by Akt/ PKB Mediated Phosphorylation. S. Kumar, R.K. Sharma. Col. of Med., Univ. of Saskatchewan.


**C199 835.11** Probing the Role of Threonine-221 and Lysine-397 in ADP-Glucose Pyrophosphorylase from *Deinococcus radiodurans*. J. Reynaga, G. Szczelbowski, C. Salas, A. Le-Pham, L. Ong, C.R. Meyer. California State Univ., Fullerton and Molsoft LLC, San Diego.


836. STRUCTURAL ENZYMOLOGY
Poster
Mon. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D

Presentation time: 12:00 PM—1:30 PM

C205 836.2 Structural Basis for Weight Loss in Patients with Chronic Obstructive Pulmonary Disease: Modeling of Gly80 and Ser80 Variants of Human Group IID Phospholipase A2 and Their Receptor Complexes. G. Hariprasad, A.S. Ethayathulla, M.I. Khan. All India Inst. of Med. Sci., New Delhi.

837. STRUCTURAL ENZYMOLOGY OF MEMBRANE PROTEINS
Poster
Mon. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D

Presentation time: 12:30 PM—2:00 PM

C211 837.1 Human Alpha3 Beta1 Isoform of Na+/K+-ATPase: Expression in Yeast, Mutations and Their Relation to Neurological Disorders. J. Geletičová, M. Kubala, D. Sorensen, P.A. Pedersen, P. Nissen. Palacky Univ. in Olomouc, Czech Republic, Univ. of Copenhagen and Aarhus Univ., Denmark.

838. BIOCATALYSIS, BIOENERGY, AND BIORENEWABLES
Poster
Mon. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D

Presentation time: 12:30 PM—2:00 PM

C213 838.2 Molecular Cloning and Expression of an Oleate Hydratase from Nocardia cholesterolicum NRRL 5767 D.R. Vanderway, H.B. Alhmadi, J.D. Diaz, L. Wen, J-K. Huang. Western Illinois Univ.
C215 838.4 The Energetic Cost of Improved Acid Resistance. E.C. Keffeler, S. Payne, P. Blum. Missouri Western State Univ. and Univ. of Nebraska-Lincoln.

839. BIOSYNTHESIS OF COMPLEX MOLECULES
Poster
Mon. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D

Presentation time: 12:00 PM—1:30 PM


840. CHEMICAL BIOLOGY
Poster
Mon. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D

Presentation time: 12:00 PM—1:30 PM

841. CHEMISTRY AND CELL BIOLOGY OF NATURAL PRODUCTS

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM—2:00 PM


842. DRUG DISCOVERY

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM—2:00 PM

C226 842.1 Biological, Electrochemical and Spectroscopic Study of Cu (II) Complexes: Applications to the Development of Anticancer Metallo drugs. A. Lewis, K. Fox, J. Tanski, L. Tyler. Union Col. and Vassar Col.


C229 842.4 Design, Synthesis, and Development of Broad Spectrum Coronavirus 3C-Like Protease Inhibitors to Target Emerging Human Pathogens: A Phytochemical Approach. S.E. St. John, A.D. Mesecar. Purdue Univ.


C233 842.8 L- to D- Amino Acid Substitution Impacts the Cellular Penetration Activity and the Intracellular Behavior of the Endosomolytic Delivery Agent dTAT. K. Najjar, A. Erazo-Oliveras, J-P. Pellois. Texas A&M Univ.


843. ENZYMES OF GLYCOSYL-TRANSFERASES AND HYDROLASES

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM—1:30 PM


C237 843.3 Optimizing a Chemoenzymatic Method to Produce a Photocrosslinking Nucleotide Donor Sugar for the N. meningitidis Serogroup W Capsule Polymerase. C. Gonzalez. Morgan State Univ.

C237A 843.4 Structure and Biosynthesis of Complex N-Glycan Cores and Antennae in Nematodes. I.B.H. Wilson, S. Yan, K. Paschinger. Univ. of Nat. Resources and Life Sci., Vienna.

844. N-GLYCOSYLATION
Poster
Mon. 9:00 am—San Diego Convention Center, Exhibit Halls A-D
Presentation time: 12:00 pm—1:30 pm


845. O-GLCNAC
Poster
Mon. 9:00 am—San Diego Convention Center, Exhibit Halls A-D
Presentation time: 12:30 pm—2:00 pm

846. O-GLYCOSYLATION
Poster
Mon. 9:00 am—San Diego Convention Center, Exhibit Halls A-D
Presentation time: 12:30 pm—2:00 pm

847. SIGNALING IN GLYCOBIOLOGY
Poster
Mon. 9:00 am—San Diego Convention Center, Exhibit Halls A-D
Presentation time: 12:00 pm—1:30 pm
C240A 847.2 Lectin Nucleotide Phosphohydrolases May Function as Co-receptors or Modulators of Several Chitin-Based Oligosaccharide Signaling Events in Plants. M.E. Etzler, N. Roberts, G. Kalsi. Univ. of California, Davis, AgRes. Grasslands Res. Ctr., New Zealand and ITC Ltd., Bengaluru, India.

848. MECHANISTICALLY-INFORMED DRUG DESIGN
Poster
Mon. 9:00 am—San Diego Convention Center, Exhibit Halls A-D
Presentation time: 12:00 pm—1:30 pm

849. METABOLIC NETWORKS
Poster
Mon. 9:00 am—San Diego Convention Center, Exhibit Halls A-D
Presentation time: 12:30 pm—2:00 pm

850. METABOLIC REGULATION
Poster
Mon. 9:00 am—San Diego Convention Center, Exhibit Halls A-D
Presentation time: 12:30 pm—2:00 pm
C249 850.3 Altered Zinc Ion Levels and Transporter Expression Indicate That High Liver Copper Disrupts Zinc Metabolism in the Atp7b-/- Mouse Model of Wilson Disease. K. Meacham, J. Burkhead. Univ. of Alaska Anchorage.
851. METABOLISM AND DIABETES

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM–1:30 PM

C258 851.1 Activation of Adiponectin Receptors induces Proprotein Convertase Subtilisin Kexin Type 9 Expression by Activating PPARgamma Pathway. L. Sun, X. Yang, Y. Liu, Y. Chen, J. Han, Y. Duan. Nankai Univ., China.


C262 851.5 Placental Expression of NFAT5, SLC5A3, and Aldose Reductase in Gestational Diabetes Mellitus. C. Mejia, P.R. Reynolds, J.A. Arroyo. Brigham Young Univ.

C278 852.3 Identification of Novel Antimicrobial Peptides to Be Used in Functional Foods. S. Doering, M. Thomas, J.E. Grant, E.J. Lee. Univ. of Wisconsin-Stout.

853. ANTIBIOTIC RESISTANCE

Poster

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM


C290 853.12 Spatial Distribution of the Abundance and Antibiotic Sensitivity of Staphylococcus aureus in the Hillsborough River. R. Seferian, A. Williams, B. Froeschke. Univ. of Tampa.


854. DIET, OBESITY, NUTRITION AND GUT MICROBIOME

Poster

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM


C294 854.3 Inclusion of Chicken Broth AAC1 as a Dietary Supplement Modulates the Gut Microbiome: Results of Next-Generation DNA Sequencing. J. Hawkins, R. Norton, P. Durham. Missouri State Univ. and Dynamic DNA Labs.

C295 854.4 Proximate Composition and Nutritional Profile of Rhynchophorus palmarum: W.O. Okunowo, O.A. Ologboye. Univ. of Lagos, Nigeria.

855. GUT MICROBES, DRUGS AND TOXINS

Poster

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM–1:30 PM

856. ALLOSTERIC CONTROL OF KINASE ACTIVITY
Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM–1:30 PM


C299 856.3 Understanding the Phylogenetic Relationship of Bacterial Arginine Kinases. K. Stock, M. Aryal, D. Fraga. Col. of Wooster, OH.


C303 856.7 Substrate Selective Mechanisms in Protein Kinases: Allostery between Nucleotide and Substrate in PKCa. R. Sommese, C. Swanson, S. Sivaramakrishnan. Univ. of Minnesota, Minneapolis and Univ. of Michigan.

C304 856.8 Phosphorylation of PKA Regulatory Subunit RIIα by PKG: A Mechanism for “Desensitizing” the Type I PKA Holoenzyme. K.J. Haushalter, D.E. Casteel, E. Stefan, S.S. Taylor. UCSD and Univ. of Innsbruck.


C306 856.10 Protein Dynamics Defines Allosteroy in the Conserved EPK Core. L.G. Ahuja, A.P. Kornev, C. McClendon, G. Veglia, S. Taylor. UCSD and Univ. of Minnesota, Minneapolis.


857. SIGNALING IN TIME AND SPACE
Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM


C309 857.2 An Optogenetic Toolkit for Spatial and Temporal Control of the cAMP Dependent Protein Kinase. C.P. O'Banion, R. Hughes, M. Priestman, D. Lawrence. Univ. of North Carolina Chapel Hill.


C311 857.4 Super-Resolution Imaging of the HER Family of Receptor Tyrosine Kinases. B. van Lengerich, E. Pucher, B. Huang, N. Jura. UCSF and Univ. of Minnesota, Minneapolis.

C312 857.5 Investigating the Role of AKAP12 in Maintaining G Protein-Coupled Receptor Responsiveness. D.J. Tóth, N. Bojjireddy, T. Balla. NICHD, NIH.

C313 857.6 Integran-Mediated Signaling Regulates Efficiency of Lymphocyte Effector Functions. Y. Sykulev, N. Anikeeva. Thomas Jefferson Univ.

858. DISEASES OF ORGANELLE MISFUNCTION
Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM


C315 858.2 SIRT3 Prevents Bleomycin-Induced Lung Fibrosis in Mice by Blocking Mitochondrial DNA Damage and ROS Synthesis. S. Bindu. Univ. of Chicago.


859. FLUORESCENCE MICROSCOPY APPROACHES TO UNDERSTAND APOPTOSIS
Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM–1:30 PM

860. INTRACELLULAR DYNAMICS

Poster

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

Presentation time: 12:00 PM–1:30 PM

C318  860.1 Characterizing the Functions of WHIMP as a New WASP-Family Actin Nucleation Factor. S. Kabrawala, M. Zimmer, K. Campellone. Univ. of Connecticut.

C319  860.2 Investigations of Functional Interactions between Env7 and TOR Complex 1 in Saccharomyces cerevisiae J. Shaoulian, E. Gharakhanian. California State Univ., Long Beach.


861. MEMBRANE TRANSPORT

Poster

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM


C325  861.5 Mechanism of Transport of Ferric Enterobactin through FepA in Gram Negative Bacteria A. Majumdar, V. Trinh, K.J. Moore, C.R. Smallwood, S.M.C. Newton, P.E. Klebba. Kansas State Univ. and Univ. of Oklahoma.

862. MITOCHONDRIAL DYNAMICS

Poster

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM


863. MITOCHONDRIAL TOXICITY

Poster

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

Presentation time: 12:00 PM–1:30 PM


864. POSTTRANSLATIONAL MODIFICATIONS AND THE MICROORGANISM RESPONSE

Poster

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

Presentation time: 12:00 PM–1:30 PM


C335  864.5 Noncognate Toxin-Antitoxin Interactions: Implications for Bacterial Persistence. A.L. Molinario, D.A. Daines. Old Dominion Univ.


C337  864.7 Biochemical Characterization of the Substrate Specificity of Two Unique Members of the Mammalian Protein Arginine Methyltransferase Family, PRMT7 and PRM. T9 A. Hadjikyriacou, Y. Feng, Y. Yang, M.T. Bedford, S.G. Clarke. UCLA, City of Hope, Duarte and Univ. of Texas MD Anderson Cancer Ctr.


C339  864.9 Capacity of Chlorogenic Acid Isomers to Modulate Oxidative and Inflammatory Responses in Caco-2 Human Enterocyte-Like Cells. N. Liang, D. Kitts. Univ. of British Columbia.

C341 864.11 Free Fatty Acid Activates MMP-1 and MMP-3 through PPAR-γ Mitigation. W.-M. Tsai, K.-L. Tsai. Physical Therapy, Tainan.

C342 864.12 Overcoming Challenges in the Diagnosis of Schistosoma mansoni Infections Using Recombinant Protein Technology. R.F.G. Queiroz, V. Silva-Morales, N.B.F. Almeida, D.A. Harn, P.M.Z. Coelho. FIOCruz,Belo Horizonte, Brazil and Univ. of Georgia.


C346 864.16 Autophagy Regulates the Early Secretory Pathway through Interaction betweenULK1 and Se. c23 S. Zhao, W. Gan, H.C. Chan, Yu. Sch. of Biomed. Sci., The Chinese Univ. of Hong Kong.

C347 864.17 Isomerized Aspartate Residues in Rodent Eye Lens Protein Act as a Marker of Biological Aging. R.A. Warmack. UCLA.


865. G PROTEINS AND PROTEIN KINASES

Poster

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM


C357 865.2 Novel Brain-Specific Isoforms of Regulator of G Protein Signaling 6 K.E. Ahlers, A. Stewart, J. Yang, Z. Luo, R.A. Fisher. Univ. of Iowa and Vanderbilt Univ.

C358 865.3 Overexpressed Gz13 Stimulates Serum Response Factor Mediated Transcription Concurrent with Relocalization to a Soluble Fraction. G.R. McDiarmid, A.C. Tagliatela, T.E. Meigs. Univ. of North Carolina Asheville.


C360 865.5 The Role of CaMKII in mGlu5 Signaling. C.R. Marks, B.C. Shonesy, R.J. Colbran, Vanderbilt Univ.

C361 865.6 GPRI161 and smAKAP Are Membrane-Bound PKA-RI-Selective AKAP. T-W. Lu, R. Ilouz, E. Stefan, S. Taylor. UCSD and Univ. of Innsbruck.

866. GTPASES

Poster

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM

C362 866.1 Screening for Potential Inhibitors of the Proangiogenic GTPase TCL Using Split-Venues Reporter Proteins. R. Florke, M. Hamann. Bemidji State Univ., MN.

C363 866.2 Bitter Taste Receptor T2R4 Mediated Inactivation of Rac1 GTPase in Response to Quinine. C. Sidhu, A. Jaggupilli, P. Chelikani, R.P. Bhullar. Univ. of Manitoba.

867. HORMONE RECEPTORS

Poster

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM–1:30 PM


C366 867.3 Local Aldosterone Synthesis in Skeletal Muscle. J.A. Chadwick, S. Swagger, J. Lowe, J. Rafael-Fortney. The Ohio State Univ.
868. INTEGRATION AND ORGANIZATION OF SIGNALING PATHWAYS

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM–1:30 PM


868.2 The Coordination of Notch and Integrin Signaling by Resveratrol. B. LaFoya, A. Albig. Boise State Univ.


869. NEUROBIOLOGY

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM

869.1 A New Role for Thermosensors in Drosophila melanogaster K.M. Marquez Gonzalez. Univ. Metropolitana, PR.


869.6 Exchange Protein Directly Activated by cAMP (EPAC) Regulates Neuronal Polarization through Rap1B. M. Schmidt, P. Munoz Llancao, C. Gonzalez-Billault. Univ. of Groningen, Netherlands and Univ. of Chile.


869.9 Chicken Broth AAC1 as a Dietary Supplement Inhibits Pain Transmission and Decreases Serum C-Reactive Protein Levels in a Model of TMJ Disorder. P. Durham, J. Hawkins. Missouri State Univ.


869.11 Arachidonic Acid Cascade-Driven Neurotoxicity in Hypobaric Hypoxia: An In Vivo Study. R. Choudhary, A. Katyal. Univ. of Delhi.


870. NON-ALCOHOLIC FATTY LIVER DISEASE

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM


870.2 Dietary Docosahexaenoic Acid Halts Progression of Nonalcoholic Steatohepatitis, but Does Not Promote Fibrosis Remission in Ldrf-/- mice. K.A. Lytle, C. Wong, D. Jump. Oregon State Univ.

870.3 Regulation of AMPK and Hepatic Metabolism by Folic Acid Supplementation in Non-alcoholic Fatty Liver Disease. V. Sid, N. Wu, L. Sarna, Y. Shang, J. House, Y.L. Siow, K. O. Univ. of Manitoba, St. Boniface Hosp. Res. Ctr. and Agr. and Agri-Food Canada, Winnipeg.

870.4 Dual Activation of Bile Acid Receptors FXR and TGR5 Plays a Protective Role in Non-alcoholic Fatty Liver Disease and Atherosclerosis. K. Jadhav, Y. Xu, Y. Zhang. Northeast Ohio Med. Univ.

870.5 Palmitoleate Protection against Palmitate-Induced Cholangiocyte Lipaoapoptosis Is Sensitive to Pertussis Toxin. S.K. Natarajan, M.A. Walker, M. Toews, J.L. Mott. Univ. of Nebraska Med. Ctr.
871. HEPATIC LIPID SIGNALING: NAFLD AND BEYOND
Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:00 PM–1:30 PM

C391 870.6 Sphingosine-1-Phosphate Signaling in Non-alcoholic Steatohepatitis. L.A. Cowart. Med. Univ. of South Carolina.

872. LIPID SIGNALING
Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:00 PM–1:30 PM

C393 871.1 Cyclin D1 Regulates Adipose Triglyceride Lipase to Influence Hepatic Lipid Droplet Metabolism and Cell Proliferation. J. Ploeger, S. Kamarajugadda, D. Mashek, J.H. Albrecht. Univ. of Minnesota.

873. MEMBRANE PROTEIN SYNTHESIS, INSERTION AND ASSEMBLY
Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:30 PM–2:00 PM

C400 873.1 Examining Interactions between Bacterioopsin and Carotenoid Biosynthetic Proteins in the Halophilic Archaean Halobacterium salinarum A.M. Plesa, R.F. Peck. Colby Col., ME.

874. NON-ANIMAL GENETIC MODELS OF LIPID METABOLISM
Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:30 PM–2:00 PM


875. ORGANELLE LIPID BIOSYNTHESIS
Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:00 PM–1:30 PM

C403 875.1 Homeostatic Regulation of Sphingolipid Synthesis by the ORMDL Proteins: Molecular Mechanisms. B. Wattenberg, D. Siow, M. Sunkara, A. Morris. Univ. of Louisville and Univ. of Kentucky.
C404 875.2 Novel Interactions of Yeast Glycerol-3-Phosphate Ayltransferases. B. Shabits, M. Tavassoli, V. Zaremberg. Univ. of Calgary, Canada.
C405 875.3 Phosphorylation of Yeast Glycerol-3-Phosphate Ayltransferase Gpt2 Regulates the Timing of TAG Synthesis and Lipid Droplet Morphology. M. Tavassoli, B. Nagler, B. Shabits, P. Sipila, K. Athenstaedt, V. Zaremberg. Univ. of Calgary, Canada and Univ. Graz, Austria.
C406 875.4 Dihydroxyacetone Phosphate Ayltransferase Is a Peripheral Membrane Protein. M. Chilije, E. Hoffarth, G. Bertolesi, S. McFarlane, V. Zaremberg. Univ. of Calgary, Canada.

876. HEPATIC LIPID SIGNALING: NAFLD AND BEYOND
Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:00 PM–1:30 PM

C393 871.1 Cyclin D1 Regulates Adipose Triglyceride Lipase to Influence Hepatic Lipid Droplet Metabolism and Cell Proliferation. J. Ploeger, S. Kamarajugadda, D. Mashek, J.H. Albrecht. Univ. of Minnesota.

872. LIPID SIGNALING
Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:00 PM–1:30 PM

C396 872.3 Tracking Diacylglycerol Pools in Budding Yeast. S. Ganesan, M.L. Sosa Ponce, V. Zaremberg. Univ. of Calgary, Canada.
C398 872.5 Biochemical Characterization of HDL/LDL-Like Particles Secreted by Astrocytes. A. Nguyen, K. Cabrera. Trinity Univ., TX.
C399 872.6 HPV16-E7 Oncoprotein Enhances Ceramide-Mediated Lethal Mitophagy by Regulating the Rb/E2F5/Drp1 Signaling Axis. R. Thomas, N. Oleinik, B. Ogretmen. Med. Univ. of South Carolina.
876. PROTEIN-LIPID INTERACTIONS AS DETERMINANTS OF FUNCTION

Poster

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM–1:30 PM


C408 876.2 The Structure and Function of COMM. D1 Z.A. Rasmussen, K. Fitzpatrick, A. Choi. Univ. of Alaska Anchorage.

877. STRUCTURAL BIOLOGY AND MECHANISMS OF MEMBRANE LIPID ASSEMBLY

Poster

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM–3:00 PM


C410 877.2 Is the Site of Influenza Virus Assembly and Budding Enriched with Cholesterol and Sphingolipids? M.L. Kraft, A.N. Yeager, P.K. Weber, J. Zimmerberg. Univ. of Illinois at Urbana-Champaign, Lawrence Livermore Natl. Lab. and NICHD, NIH.

878. STRUCTURE AND FUNCTION OF TRANSPORT PROTEINS AND CHANNELS

Poster

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM


C415 878.5 Unraveling the Structural Basis of P-Glycoprotein Transport of Serotonin 5-HT₁D Receptor Agonists: Eletriptan and Sumatriptan. D. Nguyen, L. Wilt, A. Roberts. Univ. of Georgia.

C416 878.6 Identification of the Eletriptan Binding Site on P-Glycoprotein Determined from Nuclear Magnetic Resonance Spectroscopy. L. Wilt, A. Roberts. Univ. of Georgia.


C418 878.8 Modulatory Activation of an Invertebrate Kir Channel by Protein Kinase C: Investigation of an Interaction with Pip. T.M. Larry, J.M. Butler, E.M. Leggett, N.M. Rockwell, J.K. Bell, C.A. Villalba-Galea, L.M. Boland. Univ. of Richmond, Univ. of San Diego and Virginia Commonwealth Univ.

C419 878.9 Structural Determination of the BBSome Core Complex. T. Aoba. Brigham Young Univ.


879. VESICULAR TRAFFICKING

Poster

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM–1:30 PM

C421 879.1 Dysregulation of V-ATPase Function Impairs Lysosomal Acidification in a Mouse Model of a Rare Lysosomal Storage Disease. INCL. M.B. Bagh, S. Peng, G. Chandra, Z. Zhang, A.B. Mukherjee. NICHD, NIH.


880. LABORATORY COURSES

Poster

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM–1:30 PM

C423 880.1 Transforming an Undergraduate Biochemistry Laboratory Courses: Do the Pros Outweigh the Cons? J.T. Hazzard. Univ. of Arizona.

C424 880.2 A Ten Week, First-Semester Biochemistry Lab Course Studying Bacterial Alkaline Phosphatase. D.S. Withrow. Univ. of Tampa.


C426 880.4 Measurement of Branched Chain Amino Acids in Milks and Protein Supplements. K. Hubble, D. Swanson, K. Keenan. Stockton Univ., NJ.
BIOCHEMISTRY MONDAY

C427  880.5  Pick a Color, Any Color: An Inquiry-Based Laboratory Course Based on Fluorescent Protein Mutagenesis, Expression, Purification and Characterization.  D.A. Kraut. Villanova Univ.

C428  880.6  Cloning and Characterizing a Beta-Glucanase Gene from Oats: A Structure/Guided Inquiry-Based Molecular Biology Laboratory.  D.J. Martin.  Saint Mary's Univ., MN.


C433  880.11  A Guided Inquiry-Based Animal Cell Culture Laboratory Course for Undergraduates.  L.M. Carastro.  Univ. of Tampa.

881.  ONLINE EDUCATION AND FLIPPING THE CLASSROOM

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:30 PM–2:00 PM

C434  881.1  Engaging Medical Students in Amino Acid Metabolism Using a Flipped Classroom Approach.  T.A. Clemons.  Western Michigan Univ. Homer Stryker M.D. Sch. of Med.


882.  PERSISTENCE IN SCIENCE OF STUDENTS OF ALL BACKGROUNDS

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:30 PM–2:00 PM

C436  882.1  The Voelcker Biomedical Research Academy: A Longitudinal and Multi-tiered Model for Preparing the Next Generation of Biomedical Scientists.  I. Chapa, J. Hensler, L. McManus, A. Giuffrida.  Univ. of Texas Hlth. Sci. Ctr. at San Antonio.

C437  882.2  Teaching a Broad Non-science Major Audience Using the Science of Food and Cooking.  J.J. Provost, B. Kelly, K. Colabroy, M. Wallert.  Univ. of San Diego, Gustavus Adolphus Col., MN, Muhlenberg Col., PA and Bemidji State Univ.

883.  CAREER DEVELOPMENT PLANS AND OPPORTUNITIES FOR UNDERGRADS, GRAD STUDENTS, AND POSTDOCS

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:00 PM–1:30 PM

C438  883.1  Want to Get a Career Development Award? Start Early.  L-S. Huang, D.E. Carlson, W.C. Wang, J.D. Scott.  NHLBI, NIH.


884.  INTERDISCIPLINARY EDUCATION CONCEPT INVENTORIES

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:00 PM–1:30 PM

MONDAY BIOCHEMISTRY/NUTRITION

885. MENTORING, NETWORKING AND SUCCESS
Poster
MON. 9:00 AM — SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:30 PM–2:00 PM


C444 885.3 Women in Scientific Discovery or Medicine (WISDOM): Engaging K-12 and Undergraduate Students in the Basic and Health Sciences. N.C. Woitowich, S. Pamarthy. Rosalind Franklin Univ. of Med. and Sci.


886. EDUCATION AND/OR PROFESSIONAL DEVELOPMENT IN BIOCHEMISTRY AND MOLECULAR BIOLOGY
Poster
MON. 9:00 AM — SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:30 PM–2:00 PM


C447 886.2 Effects of Helichrysum plicatum Extract against Thallium (I) Sulphate-Induced Reproductive Damage in Male Rats. A.D. Omur, B.A. Yildirim, S. Kucukler. Atatürk Univ., Turkey.


887. CURRICULUM CHANGES IN PRE-MED EDUCATION
Poster
MON. 9:00 AM — SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:00 PM–1:30 PM


888. MEDICAL AND DENTAL EDUCATION
Poster
MON. 9:00 AM — SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:00 PM–1:30 PM


889. OBESITY: MACRONUTRIENTS AND OBESITY
Poster
(Sponsored by: Obesity RIS)
MON. 9:00 AM — SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:45 PM–1:45 PM (I); 1:45 PM–2:45 PM (II)

D1 I 889.1 Simulating the Influence of Changes in Macronutrient Composition and Amounts in the American Diet from 1971-2008 on Body Composition Changes and Their Contribution to the Obesity Epidemic. R.T. Davidson, M. Hippard. Logan Univ., MO.

D2 II 889.2 Carbohydrate Intake Affects Weight Loss Related Improvements in Glycemic Control: Results from a Systematic Review and Regression Analysis. J. Li, C.S. Wright, W.W. Campbell. Purdue Univ.

Nutrition

890. GLOBAL NUTRITION: LINEAR GROWTH AND GROWTH FAILURE FROM CONCEPTION TO ADULTHOOD

Poster

(Sponsored by: Global Nutrition Council)

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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


891. GLOBAL NUTRITION: IMPROVING THE DIETS OF VULNERABLE POPULATIONS

Poster

(Sponsored by: Global Nutrition Council)

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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


D20 II 891.3 Predicted Effects of Current and Potential Micronutrient Intervention Programs on Adequacy of Folate and Vitamin B-12 Intake in a National Sample of Women and Young Children in Cameroon. H. Luo, C.P. Stewart, K.H. Brown, R. Engle-Stone. Univ. of California, Davis and Bill & Melinda Gates Fndn.


D28  II  891.11  Developing Food-Based Recommendations to Complement Distribution of a Meat-Based Fortified Food Product for School-Aged Children from Rural Quetzaltenango, Guatemala Using the Optifood Linear Programming Tool. M. Vossenaar, M.L. Escobar, M.J.L. Bonorden, N.W. Solomonos. CeSSIAM, Guatemala City and Hormel Foods Corp., Austin, MN.


892.  GLOBAL NUTRITION: MEASURING AND IMPROVING MICRONUTRIENT STATUS

Poster

(Sponsored by: Global Nutrition Council)

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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

D33  III  892.1  Perceived Iron Content in Drinking Water Associated with Anemia among Women with Iron-Poor Diets in Rural Bangladesh. A. Wendt, J. Waid, S. Gabrysch. Univ. of Heidelberg and Helen Keller Inti., Bangladesh.


D35  III  892.3  Oral Contraceptive Use Is Associated with Increased Serum 25-Hydroxyvitamin D and Decreased Serum Parathyroid Hormone but Not with Bone Mass Status in Young Adult Uruguayan Women. R. Cornes, A. Peña, C.M. Donangelo. Sch. of Nutr., Univ. of the Republic, Uruguay.


D38  III  892.6  Comparison of Selected Nutrients in Raw, Whole Egg from USDA Data Releases (1976 – 2010) M. Somanchi, J. Exler, P.R. Pershsson. USDA, Beltsville, MD.


D49  I  892.17  Effectiveness and Tolerability of Various Ferrous Salts in Correcting Mild to Moderate Iron Deficiency Anemia in Indonesian Women. S. Ashmead, J. Hartle. Albion, UT.

D50  II  892.18  Socio-economic Variables Associated with Anaemia during Pregnancy in Owerri Imo State, Nigeria. O.C. Afam-Anene, A.C. Uwaegbute. Imo State Univ. and Michael Okpara Univ. of Agr., Nigeria.


893. PULSES, NUTRITION AND HEALTH

Poster

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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


D54  II  893.3  Carbohydrate Fractions in Chickpeas, Lentils and Dry Peas. D.B. Haytowitz. USDA, Beltsville, MD.


D58  II  893.7  Fortification of Yogurt with Chickpea Flour Decreases Fermentation Time and Enhances Overall Quality of Yogurt. X. Chen, R. Ramanaathan, K. Bhargava. Univ. of Central Oklahoma and Oklahoma State Univ.

D59  I  893.8  Impact of Processing on the Protein Quality of a Pinto Bean/Buckwheat Blend, as Determined by In Vitro and In Vivo Methodologies. M.G. Nosworthy, A. Franczyk, J. Neufeld, J.D. House. Univ. of Manitoba.

D60  II  893.9  The Effect of Consuming a Low-Glycemic Index Lentil-Based Sports Nutrition Bar on Recovery after a Soccer Match. M. Kaviani, P. Childsbeck, S. Gall, J. Jochim, G. Zello. College of Kinesiol. and Col. of Pharm. and Nutr., Univ. of Saskatchewan.


894. FACTORS INFLUENCING LONG-TERM ECONOMIC/ENVIRONMENTAL SUSTAINABILITY OF THE FOOD SUPPLY

Poster

MON, 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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

D66 II 894.1 Characterizing Early Adolescent Food Waste Using the Mobile Food Record. J.C. Banna, C. Panizza, C. Boushey, E. Delp, E. Lim. Univ. of Hawaii at Manoa, Curtin Univ., Australia, Univ. of Hawaii Cancer Ctr. and Purdue Univ.

D67 II 894.2 Examination of Socio-demographic Correlates of Plate Waste in Early Adolescent Girls. C. Panizza, C. Boushey, E. Delp, E. Lim, J.C. Banna. Curtin Univ., Australia, Univ. of Hawaii Cancer Ctr., Purdue Univ. and Univ. of Hawaii at Manoa.


D72 II 894.7 Perspectives of Public, Private and Civil Sectors in the Development and Maintenance of a Local Food System. D. Cuy Castellanos, J. Christaldi, J. Jones. Univ. of Dayton, West Chester Univ. and Rutgers Univ.


D95 I 896.9 Validation of Two Brief Questionnaires Designed to Assess Fruit and Vegetable Intake among 3rd- 5th Grade SNAP-Ed Participants. Y. Zhang, G. Hurtado, M. Reicks. Univ. of Minnesota-Twin Cities.


D97 I 896.11 Coordination of Classroom Nutrition Education with School Nutrition Services Programs in California Schools. A.M. Jones, M. Briggs, J. BoarerPitchford, S. Zidenberg-Cherr. Univ. of California, Davis, California Dept. of Educ., Sacramento and Univ. of California ANR, Davis.


D104 II 896.18 Peer-Education about Weight Steadiness (PAWS Club): Pilot Test of Family Menu Planning Lesson for Parents and Their Young Adolescents. C.J. Nikolaus, C.A. Liguori, A.N. Winslow, S.M. Nickols-Richardson. Univ. of Illinois at Urbana-Champaign.

897. NUTRITION POLICY

Poster

(Sponsored by: Public Policy Committee)

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

Science Policy

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


D108 II 897.3 FDA’s Evaluations of GRAS Food Ingredients. J. Dausch. FDA, Bethesda.


D110 II 897.5 New Classification Based on Anthropometric Indicators for Assessing Dual Burden of Malnutrition in Young Children. R. Sibrian, P. Palma de Fulladolsa. SG-SICA/PRESANCA, San Salvador.

D111 I 897.6 Menu Labeling: Coming to a Neighborhood Near You...or Is It? J.E. Green, R. DeWeese, C. Lorts, P. Ohri-Vachaspati. Arizona State Univ.


898. SPORTS NUTRITION: NUTRITION, DIETARY SUPPLEMENTS AND HUMAN PERFORMANCE

Poster

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

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


D120 II 898.7 Energy Drink Consumption by Online College Students. L.O. Byerley. American Publ. Univ., WV.

D121 I 898.8 In Vitro Comparative Absorption of Creatine Compounds. S. Morgan, C. Ericson, J.W. Hartle. Albion, UT.

D122 II 898.9 Examining the Relationship between Iron Status and Physical Performance in Chinese Women. L.M. Pompano, J.D. Haas. Cornell Univ.

D123 I 898.10 Coffee but Not Anticipation of Coffee Alters the Outcome of Explosive Bench Pressing. B. Smith, A. Feucht, G. Slack, J. Rogers, F. LaRock, R. Mendel, L. Lowery. Univ. of Mount Union and Independent Licensed Res. Nurse, Alliance, OH.


D125 I 898.12 Effect of Aspartate Supplementation on Athletic Performance and Testosterone Levels in Young Men. Z. LaMacchia, B. Williams, P.J. Horvath. Univ. at Buffalo SUNY.

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

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

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 1:45 PM–2:45 PM (I)

D127 I 899.1 Food Insecurity, Health, and Healthcare Utilization among the Working Poor in the U.S. E.L.P. Sattler, V. Bhargava. Univ. of Georgia.

D128 II 899.2 The Usual Nutrient Intakes of U.S. Children and Adolescents by Milk Drinking Behavior. Y. Zhao, R. Bailey, C. Weaver, G. McCabe, H. Eicher-Miller. Purdue Univ.


D131 I 899.5 Food Security: Motivations to Volunteer in Food Rescue Nutrition. T.Y. Mousa, J.H. Freeland-Graves. Univ. of Texas at Austin.


D134 II 899.8 Implementation of the General Guidelines for the Sale and Distribution of Food and Drinks Prepared and Processed in the Schools of the National Education System in Mexico, the Universidad Iberoamericana Case. A.B. Perez-Lizaur, L.I. Moreno. Univ. Iberoamericana, Mexico City.

D135 I 899.9 Sustainable Diets for Food Security in the Middle East and North Africa Region. N. Hwalla, R. Bahn, S. El Labban. American Univ. of Beirut.


900. COMMUNITY AND PUBLIC HEALTH NUTRITION: POLICY AND SYSTEMS APPROACHES IN COMMUNITY AND PUBLIC HEALTH NUTRITION

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

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 1:45 PM–2:45 PM (II)

D142 II 900.1 Food Purchasing Patterns of Supplemental Nutrition Assistance Program Participants. N. Sanjeevi, J.H. Freeland-Graves. Univ. of Texas at Austin.


D146 II 900.5 Impact of Citation Network on the Diffusion of Systems Science Simulation Approaches in Health-Related Research. S. Liu, H. Xue, Y. Wang. Southwestern Univ of Finance and Econ., China and Univ at Buffalo SUNY.


901. COMMUNITY AND PUBLIC HEALTH NUTRITION: HEALTH DISPARITIES AND PROMOTING HEALTH IN DIVERSE POPULATIONS

Poster

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

**MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D**

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


D152 II 901.4 Nutritional Health Attitudes and Behaviors and Their Associations with the Risk of Overweight/Obesity among Michigan Migrant and Seasonal Head Start Staff. S. Song, V. Nieves, W.O. Song. Michigan State Univ.


D158 II 901.10 Community Perspectives of Health Care and Education Provided through a Student-Run Free Clinic in an Urban Setting. J. Phelps, L. White, S. Parker. Univ. of Arkansas for Med. Sci. and Oklahoma State Univ.


D166 II 901.18 Crosstalk between the Risk of Diabetes and Iron Status in Different Ethnic Groups. D.Yang, M.E. Kalan, J. Han. Univ. of Louisville and North Carolina A&T State Univ.


D173 I 901.25 Acculturation, Diet and Psychological Health of Asian International Students at the University of Delaware. H. Jiang. Purdue Univ.


902. NUTRITIONAL EPIDEMIOLOGY: NUTRITION AND CHRONIC DISEASE EPIDEMIOLOGY

Poster
(Sponsored by: Nutritional Epidemiology RIS)

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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

D176 II 902.1 Autism Linked to Alcohol and Sugar Intake. R.J. Shamberger. King James Med. Lab., Kirtland, OH.


D180 II 902.5 Comparison of Salt Intake between the Patients with Diabetes Mellitus and/or Hypertension, and Healthy Subjects. N. Motoyuki, Y. Ishihara. Kurume Univ., Japan.


D188 II 902.13 Mediterranean Diet and Changes in Weight among Older Puerto Rican Adults. S.J. Bigornia, S.E. Noel, K.L. Tucker. Univ. of Massachusetts Lowell.


D190 II 902.15 Plasma Amino Acids and Mortality in a Middle-Aged and Older Chinese Population during 6-Year Follow-Up. L. Sun, X. Lin, R. Zeng. Univ. of Massachusetts Div. of Connecticut.


903. NUTRITIONAL EPIDEMIOLOGY: RESEARCH WITH DIETARY SUPPLEMENTS AND BIOACTIVE COMPOUNDS

Poster
(Sponsored by: Nutritional Epidemiology RIS)

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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

### 904. AGING: NUTRITION AND CARDIOMETABOLIC HEALTH

**Poster**

(Sponsored by: Aging and Chronic Disease RIS)

**MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D**

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

| D197 | II 903.5 Biochemical Comparison of AAC1 Enriched Chicken Broth to Homemade Chicken Broth: Potential Benefits to Joint Health. P. Durham, J.L. Hawkins. Missouri State Univ. |

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### D205 **904.7** Relation of Total Sugars and Fructose-Containing Sugars with Risk of Cardiovascular Disease: A Systematic Review and Meta-analysis of Prospective Cohort Studies. T.A. Khan, S. Blanco-Mejia, R. de Souza, C.W.C. Kendall, J.L. Sievenpiper. St. Michael's Hosp., Toronto, Univ. of Toronto, McMaster Univ., Hamilton, ON and Univ. of Saskatchewan, Canada. |

### D206 **904.8** Following a Mediterranean Diet for 3-Months Reduces Home Measured Systolic Blood Pressure in Older Australians: Results from the Mediterranean Diet for Cognition and Cardiovascular Health in the Elderly (MedLey) Trial. K. Murphy, C. Davis, J. Bryan, C. Wilson, R. Woodman, J. Hodgson. Univ. of South Australia, Sch. of Med., Flinders Univ. and Royal Perth Hosp. Univ. of Western Australia. |


### D208 **904.10** A High Flavonoid Diet Does Not Improve Markers of Insulin Resistance and Subclinical Inflammation in Overweight and Obese Men and Women. M. Lefrevre, R. Ward, J. Bergeson, N. Hergert, J. Hergert, S. Aguilar. Utah State Univ. |


### D215 **904.17** The Effect of Higher Protein Intake during Energy Restriction-Induced Weight Loss on Counts of Intermediate and Classical Monocytes and Their Relations to Lipid-Lipoprotein Profile and C-Reactive Protein. G. Lin, J.E. Kim, J. Zhou, W.W. Campbell. Purdue Univ. |


D224 I 904.26 Alcohol Intermits Adipose Tissue Maturation and Attenuates Adipocytokine Expression in 3T3-F442 Pre-adipocytes. M.S. Shafiei, S. Juma, C. Prasad, V. Imrhan, P. Vijayagopal. Texas Woman’s Univ.


905. DAIRY AND YOGURT: HEALTH AND NUTRITION EFFECTS

Poster

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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

D227 II 905.1 Application of HACCP on the Small-Scale Manufacture of a Food Product (Pudding) S. Almalky. Jeddah, Saudi Arabia.

D228 I 905.2 Pre-meal Low-Fat Yogurt Consumption Reduces Postprandial Hyperglycemia and IL-6 in Apparently Healthy Obese Women. R. Pei, D. DiMarco, K. Putt, D. Martin, R. Bruno, B. Bolling. Univ. of Wisconsin-Madison, Univ. of Connecticut and The Ohio State Univ.

D229 II 905.3 Despite Higher n-6 PUFAs, Butter Remains a Reliable Source of Saturated Fats across the World. S. Ghosh, A. Botta. Univ. of British Columbia-Okanagan.


D235 II 905.9 Low-Fat Yogurt Consumption Reduces Markers of Chronic Inflammation in Apparently Healthy Lean and Obese Women. R. Pei, D. DiMarco, K. Putt, D. Martin, R. Bruno, B. Bolling. Univ. of Wisconsin-Madison, Univ. of Connecticut and The Ohio State Univ.

906. ENERGY AND MACRONUTRIENT METABOLISM:
ENERGY BALANCE, MACRONUTRIENTS AND
WEIGHT MANAGEMENT

Poster

(Sponsored by: Energy & Macronutrient Metabolism RIS)

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

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


D239 II 906.3 Environmental Cues Assist in Weight Management. A.K. Thaw. Millsaps Col., MS.


D245 II 906.9 Effect of Low-Glycemic Index/Load Diets on Body Weight: A Systematic Review and Meta-analysis. C.R. Braunstein, S. Blanco Mejia, E. Stoiko, J.C. Noronha, V. Choo, V. Ha, L. Augustin, D.J.A. Jenkins, C.W.C. Kendall, J.L. Sievenpiper. Univ. of Toronto, St. Michael’s Hosp., Toronto, McMaster Univ., Hamilton and Univ. of Saskatchewan Col. of Pharm. and Nutr.


D249 II 906.13 Effects of Exercise, Caloric Restriction and Subsequent Weight Regain following the Loss of Ovarian Function on Mitochondrial Respiration. R. Oljira, M. Jackman, R. Foright, J. Houck, G. Johnson, V. Sherk, P.S. MacLean. Univ. of Colorado Sch. of Med.


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

Poster

(Sponsored by: Energy & Macronutrient Metabolism RIS)

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

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

D251 II 907.1 Cardiovascular and Lifestyle Factors Influencing the Metabolic Syndrome in Overweight and Obese Participants of a Randomised Clinical Trial. L. Tapsell, A. Humphries, E. Neale, M. Batterham. Univ. of Wollongong, Australia.


D257 II 907.7 Components of the Metabolic Syndrome and Its Association with Nutritional Status of Vitamin D in Children and Adolescents with Obesity. E. Romero-Velarde, E. Casillas-Toral, S. Fonseca-Reyes, L.M. Aguirre-Salas. Univ. of Guadalajara and “Dr. Juan I. Menchaca” Civil Hosp. of Guadalajara, Mexico.


D261 II 907.11 Associations between the Intake of Soups and Stews and Metabolic Syndrome in Korean Adults: Korean National Health and Nutrition Examination Surveys (KNHANES) 2013 Y.J. Bae. Shinhan Univ., South Korea.

D262 I 907.12 Protective Effects of Dietary Walnuts on High Fat-Induced Hepatic Steatosis, Oxidative Stress and Apoptosis in Mice. Y. Choi, M.A. Abdelmegeed, B-J. Song. NIAAA, NIH.

D263 II 907.13 A Dietary Intervention of Fish Oil Can Restore Metabolic Dysfunction and Improve Estrous Cycle Irregularity in Obese C57BL/6 Female Mice. S.M. Godwin, L. Beech, R. Buddington, M. van der Merwe. Univ. of Memphis Sch. of Hlth. Studies.


D268 I 907.18 Relationship between Self-Reported Hot Pepper Consumption and Body Weight Status among Adults. C. Wang, L. Huang, C. Butler. Kentucky State Univ.


D270 I 907.20 Dietary Supplementation with Chia (Salvia hispanica L.) Oil reduces the Complications Caused by High Fat Diet-Induced Obesity. M. Citelli, T. Fonte-Faria, S. Vargas-Silva, C. Barja-Fidalgo. Rio de Janeiro State Univ.


908. ENERGY AND MACRONUTRIENT METABOLISM: METABOLIC PHENOTYPING, METABOLICOMICS AND BIOMARKERS

Poster

(Sponsored by: Energy & Macronutrient Metabolism RIS)

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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


D273 II 908.2 1H NMR-Based Metabolomics Reveals Urinary Metabolome Modifications in Female Sprague-Dawley Rats by Cranberry Procyanidins. H. Liu, F. Tayyari, Z. Su, L. Gu. Univ. of Florida and Univ. of Georgia.


909. ENERGY AND MACRONUTRIENT METABOLISM: PROTEIN AND AMINO ACID METABOLISM

Poster

(Sponsored by: Energy & Macronutrient Metabolism RIS)

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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

D278 I 909.1 Dietary Glycomacropeptide Increases Fat-Free Mass, Bone Mineral Content and Fatty Acid Oxidation Compared with Casein in Female Mice. E.A. Sawin, B.M. Stroup, S.G. Murrali, D.M. Ney. Univ. of Wisconsin-Madison.


D282 I 909.5 Dietary Protein Source at Breakfast Influences Subsequent Learning and Memory Performance. K. Du, M.J. Dailey, J.S. Rhodes, J.L. Beverly. Univ. of Illinois at Urbana-Champaign and Univ. of North Carolina at Greensboro.


D284 I 909.7 Effect of β-Hydroxy β-Methylbutyric Acid on Macrophage Polarization. W-C. Mu, R.W. Grant. Purdue Univ.

D285 II 909.8 Dietary Creatine Supplementation Reduced the Proportion of Dietary Arginine Directed toward Guanidinoacetic Acid Synthesis and Reduced the Demand for Methionine-Derived Methyl Groups, but Did Not Enhance Whole Body Protein Synthesis in Neonatal Piglets. O.C. Dinesh, T. Kankayaliyan, M. Rademacher, C. Tomlinson, R.F. Bertolo, J.A. Brunton. Mem. Univ. of Newfoundland, Canada, Evonik Nutr. & Care GmbH, Hanau, Germany, Univ. of Toronto and The Hosp. for Sick Children, Canada.


D287 II 909.10 A Minimal Compartmental Model for the Assessment of Net Whole Body Protein Breakdown, Using a Pulse of Phenylalanine and Tyrosine Stable Isotopes in Humans. A. Mason, M. Engelen, G. Toffolo, N. Deutz. Texas A&M Univ. and Univ. of Padova.

D288 I 909.11 Arginine or Guanidinoacetic Acid Can Serve as Precursors for Creatine Synthesis in Parenteral Nutrition, but Only with Excess Methionine to Facilitate Transmethylation. S.D. Bray, A. Aljaroudi, O.C. Dinesh, T. Kankayaliyan, J.A. Brunton, R.F. Bertolo. Mem. Univ. of Newfoundland, Canada.

910. OBESITY: CHRONIC DISEASES

Poster

(Sponsored by: Obesity RIS)

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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


911. NUTRIENT-GENE INTERACTION: GENOMICS, PROTEOMICS AND METABOLICOMICS

Poster

Nutrient-Gene Interaction RIS

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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


D300 I 911.5 Variation in ALDH4A1, Proline Intake and Plasma Proteins in a Population of Young Adults. J. Jamnik, M.H. Kim, C. Borchers, A. El-Soehmy. Univ. of Toronto and Univ. of Victoria, Canada.


912. NUTRIENT-GENE INTERACTION: EPIGENETICS

Poster
Nutrient-Gene Interaction RIS

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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

D303 II 912.1 Effects of Maternal Vitamin D Deficiency on Fetal Epigenetic Reprogramming. J. Xue, F.Y. Ideraabdullah. Univ. of North Carolina at Chapel Hill.


D305 II 912.3 Long Chain Fatty Acid Receptor 4 Mediates EPA-miR30b Axis Activation for Promoting Brown Adipogenesis. J. Kim, M. Okla, S.K. Natarajan, S. Chung. Univ. of Nebraska - Lincoln.


D307 II 912.5 Walnut Substantially Alters the DNA Methylation Profile in Colon Cancer Stem Cells. S.W. Choi, J. Choi, J. Kim, Y. Kim, S. Friso. CHA Univ. and Ewha Womens Univ., South Korea and Univ. of Verona Sch. of Med.

D308 I 912.6 Iron Supplementation Reverses Reduced Global Hydroxymethylcytosine Associated with Chronic Alcohol Consumption in Rats. S.W. Choi, S.A. Tammen, J.E. Park, S. Friso, J. Chung. CHA Univ., South Korea, Tufts Univ. Friedman Sch. of Nutr. Sci. and Policy, Kyung Hee Univ., South Korea and Univ. of Verona Sch. of Med.


D310 I 912.8 Genes and Sequence Variants in Weight Loss in Response to Diet and Exercise: Meta-analysis. Y.P. Jung, B. Sanchez, R. Kreider. Texas A&M Univ.


913. CARIG: CAROTENOIDS AND HEALTH

Poster
(Sponsored by: CARIG RIS)

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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


D317 II 913.4 The Effect of Carotenoids on Transforming Growth Factor β1-Induced Fibrogenesis in LX-2 Cells, a Human Hepatic Stellate Cell Line. M. Bae, J-Y. Lee. Univ. of Connecticut.


D320 I 913.7 Relationship between Concentrations of Lutein and SIARD3 among Pediatric and Geriatric Human Brain Tissue. E.J. Johnson, J. Tanprasertsuk, B. Li, P.S. Bernstein, R. Vishwanathan, M.A. Johnson, L.W. Poont. Tufts Univ., Boston, Univ. of Utah Sch. of Med. and Univ. of Georgia.

D321 II 913.8 Differential Expression of Genes Involved in Inflammatory Immune Response and Protein Ubiquitination in the Prefrontal Cortex of Rhesus Macaque with High and Low Lutein Content. E.S. Mohn, J.W. Erdman, Jr., M. Neuringer, M.J. Kuchan, E.J. Johnson. USDA at Tufts Univ., Univ. of Illinois at Urbana-Champaign, Oregon Hlth. & Sci. Univ. and Abbott Nutr., Columbus, OH.
914. CARIG: BIOFORTIFICATION OF STAPLE CROPS WITH MICRONUTRIENTS

Poster

(Sponsored by: CARIG RIS)

MON 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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


D325 II 914.4 Native African Plant Materials Modify In Vitro Bioaccessibility of Provitamin A Carotenoids from Blended Cereal Products. H. Debelo, C. Ndziaye, M. Ferruzzi, B. Hamaker. Purdue Univ.


D328 I 914.7 Impact of Processing on the Stability and Bioaccessibility of Provitamin A Carotenoids in Biofortified Cassava Roots (Manihot esculenta, Crantz) I. Aragon, D. Dufour, A.F. Escobar, F. Calle, H. Ceballos, M.G. Ferruzzi. Purdue Univ., CIAT, Palmira, Colombia and CIRAD, Montpellier, France.

915. EXPERIMENTAL ANIMAL NUTRITION: PRENATAL AND POSTNATAL NUTRITION AND ANIMAL MODELS OF DISEASE

Poster

MON 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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

D329 II 915.1 Lean Body Mass Accretion Follows a Dose-Response to Dietary Vitamin D in Female Weanling Rats. M. Razaghi, M. Djeckivankovic, S. Agellon, P. Lavery, H.A. Weiler. McGill Univ.

D330 I 915.2 Disruption of Mitochondrial Folate Transporter Gene (Slc25A32) Induces Embryonic Lethality and Neural Tube Defects in Mice. J. Kim. Univ. of Texas at Austin.

D331 II 915.3 Maternal Consumption of a Diet Lacking Omega-3 Fatty Acids during Development Alters Pup Behavior and Brain Metabolism Later in Life. C. Jackson, M. Alhado, E. Gonzales, J. Shumake, D. Barrett, F. Gonzalez-Lima, M.A. Lane. Texas State Univ. and Univ. of Texas at Austin.


D337 II 915.9 Newborn Cardiac Structural Alterations in Response to Salt Restriction or Overload during Pregnancy. P. Seravalli, B.C. Zago, I.B. Oliveira, M.M. Veras, J. Heimann. Univ. of São Paulo Sch. of Med.

D338 II 915.10 Dietary Alpha-Lipoic Acid Impacts Brain Development of the Young Pig. A.T. Mudd, R. Waworuntu, B.M. Berg, R.N. Dilger. Univ. of Illinois, Urbana and Mead Johnson Nutr.


D346 I 915.18 Thymic Involution beyond Water-Soluble Silicon Consumption. V. Gordova, V. Sergeeva. Chuvash State Univ., Russia.


D354 II 915.26 Central Injection of Neuropeptide Y Affects Dietary Macronutrient Composition-Mediated Changes in Broiler Adipose Tissue mRNA Abundance. C. Williams, G. Wang, B. McConn, M. Cline, E. Gilbert. VPI and State Univ.

D355 II 915.27 Increased Intracellular Calcium Is a Mediator of Heat Stress-Induced Adipocyte Hypertrophy. K.M. Ajuwon, H. Qu. Purdue Univ.


D358 I 915.30 Effects of Obesity and Soy Protein Diet on Feed Intake and Serum Leptin Level in Female Zucker Rats. R. Hakkak, A. Bell, S. Korourian. Univ. of Arkansas for Med. Sci. and Arkansas Children’s Hosp. Res. Inst.

D359 II 915.31 Time-Restricted Feeding of a High-Fat Diet Reduces Adiposity and Inflammatory Cytokine Production in Mice. S. Sundaram, L. Yan. USDA, Grand Forks.


D363 I 915.35 The Effect of Feeding Soy Protein Isolate and/or Omega-3 Polyunsaturated Fatty Acids on the Spleen of Female PCK Rats. L.B. Gibson, K. Maditz, V.A. Benedito, J.C. Tou. West Virginia Univ.


D365 I 915.37 The Effects of Dietary Macronutrient Composition on Lipid Metabolism-Associated Factor Gene Expression in the Adipose Tissue of Chickens Are Influenced by 3 Hours of Fasting. G. Wang, B. McConn, M.A. Cline, E.R. Gilbert. VPI and State Univ.


D371 II 915.43 Dogs Choose 23% of Their Calories as Protein Which Is Associated with Body Composition and Circulating Metabolites. D.E. Jewell, J.C. Vondran, M.A. Vanchina. Hill’s Pet Nutr., Topeka, KS.


916. NUTRITION IMMUNOLOGY: NUTRITIONAL IMMUNOLOGY, INFECTION AND INFLAMMATION

Poster
(Sponsored by: Nutritional Immunology and Inflammation RIS)

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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

D373 II 916.1 Obesity, Rather Than Fat Content of Diet, Contributes to Reduced Influenza Vaccine Efficacy in Mice Fed a High Fat Diet. D. Wu, L. Li, W. Guo, J. Wu, D.E. Smith, S.N. Meydani. USDA at Tufts Univ.

D374 I 916.2 Vitamin D Supplementation and Lipopolysaccharide-Induced Inflammation in the Neonate—a Pilot Study in C57BL/6 Mice. C-H. Wei, A-C. Ross. Penn State.


D377 II 916.5 Development and Validation of a Food-Based Inflammation Score. A.C. Holmes, R.M. Bostick. Emory Univ. and Winship Cancer Inst.


D382 I 916.10 Barriers to Nutritional Counseling by a Registered Dietitian for People Living with HIV. C.D. Fleetwood, A. Campa, S. Martinez, A. Charlesworth, G. Alvarado, K. Dizon, T. Li, F.G. Huffman, M. Baum. Louis A. Johnson VA Med. Ctr., WV and Florida Intl. Univ.


D393 II 916.21 Effects of Calorie Restriction on Microbial Activation in a Murine Model. U. Quijano, I. Contreras, J.A. Estrada. Autonomous Univ. of State of Mexico, Toluca.


917. VITMIN: WATER AND FAT SOLUBLE VITAMINS AND CHRONIC DISEASE
Poster
(Sponsored by: Vitamins and Minerals RIS)

MON. 9:00 AM — SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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


D400 I 917.3 Whole Egg Consumption Increases Serum 25-Hydroxyvitamin D Concentrations in Rats with DSS-Induced Colitis. S.K. Jones, M. Rowling, K. Schalinske. Iowa State Univ.

D401 II 917.4 The Effect of Vitamin D Supplementation on Blood Lipids in Minorities with Type 2 Diabetes. J. Exebio, S. Ajabshir, G. Zarini, F. Huffman. Florida Intl. Univ.


D404 I 917.7 Vitamin A Status Affects the Body Mass Gain and Hepatic Gene Expression in Rats Fed a High-Fat Diet. H. Kuang, Y. Li, J. Eastep, G. Chen. Univ. of Tennessee, Knoxville.

D405 II 917.8 Whole Egg Consumption Attenuates Vitamin D Insufficiency in Type 1 Diabetic Rats. C.J. Saande, K.L. Schalinske, M.J. Rowling. Iowa State Univ.


918. VITMIN: MICRONUTRIENT BIOAVAILABILITY AND ANTI-OXIDANT FUNCTION
Poster
(Sponsored by: Vitamins and Minerals RIS)

MON. 9:00 AM — SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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

D415 II 918.1 Absorption of Iron in Caco-2 Cells Evaluated by Ferritin Uptake from Five Dietary Supplement Iron Sources. S. Morgan, J.W. Hartle. Albion, UT.

D417  II  918.3  Metabolomic Profile of Serum 25-Hydroxy-Vitamin D.  S.M. Nelson, G.M. Anic, O.A. Panagiotou, A. Mondul, S.J. Weinstein, D. Albanes.  NCI, NIH, Rockville, MD and Ann Arbor, MI.

D418  I  918.4  Improved Bioavailability of Iron from Amino Acid Chelates in Fully Differentiated Human Intestinal Epithelial (Caco-2) Cells.  C. Doguer, N. Shay, J.F. Collins.  Univ. of Florida and Oregon State Univ.


D420  I  918.6  Bioaccessibility of Vitamin D from Bread Fortified with UV-Treated Yeast Is Lower Than Bread Fortified with Crystalline Vitamin D2 and Bovine Milk.  T.E. Lipkie, M.Ferruzzi, C.M. Weaver.  Cargill Global Food Res., Minneapolis and Purdue Univ.


Pathology

920. CELL DEATH, TISSUE INJURY AND REPAIR
Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 11:45 AM—1:45 PM
A193 920.1 Inter-competition and Conversion of TNF-α-Induced Signaling Complexes Determine the Outcomes of TNF-α Signaling. Z-H. Yang, X-N. Wu, X. Wang, P. He, M. Hong, J. Han. Sch. of Life Sci. and Sch. of Pharmaceut. Sci., Xiamen Univ., China.
A194 920.2 Cathepsin Localization and Activity on the Intestinal Epithelial Barrier of Rats following Hemorrhagic Shock and Reperfusion. A.S. Courelli, F. DeLano, G.W. Schmid-Schonbein. UCSD.
A195 920.3 Rip3 Forms Different Complexes Leading to Apoptosis or Necrosis. W. Li, Xiamen Univ., China.
A197 920.5 Induction of Anchorage Independent Growth and Angiogenesis by Tungsten Carbide-CoBalt Nanoparticles. M. Ding, T.L. Barber, L. Bowman. NIOSH/CDC, Morgantown, WV.
A198 920.6 Induction of AP-1-MAPKs Signaling by Copper Oxide Nanoparticles. T.L. Barber, L. Bowman, M. Ding. NIOSH/CDC, Morgantown, WV.
A202 920.10 Cleavage of the Osmotic Stress-Related Transcriptional Regulator NFAT5 Is Critical for Cardiac Injury in Coxsackievirus B3-Induced Myocarditis. Y. Qiu, P.J. Hansen, M. Zhang, D. Yang. Univ. of British Columbia and Ctr. for Heart Lung Innovation, Vancouver.
A205 920.13 Functional Diversity of Novel Disease Mutations in the Unfolded Protein Response Regulator, AT. F6. W-C. Chiang, P. Chan, J.H. Lin. UCSD.

921. MUCOSAL INFLAMMATION AND HOST-PATHOGEN INTERACTIONS
Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 11:45 AM—1:45 PM
922. EPITHELIAL BARRIERS, CELL MIGRATION AND TISSUE REPAIR

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 11:45 AM–1:45 PM


A217 922.2 Reacquisition of E-Cadherin Expression in Metastatic Signet Ring Cell Carcinoma: A Potential Anchor for Metastatic Deposition. Y. Ma, G.P. Siegal, S. Wei. Univ. of Alabama at Birmingham.


923. EXTRACELLULAR MATRIX

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 11:45 AM–1:45 PM


A223 923.2 The Roles of Matrix Metalloproteinases in Anterior Regeneration in Aeolosoma viride T.L. Tseng. Natl. Taiwan Univ.


924. LIVER PATHOBIOLOGY

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 11:45 AM–1:45 PM


A236 924.11 Neural Modulation of Liver Function to Regulate Lipid and Glucose Metabolism. Y.A. Patel, R.J. Butera. Georgia Tech.


Pharmacology

926. OPIOIDS

A4 926.4 Gαs Proteins Mediate the Antihyperalgesic and Antidepressant-Like Effects, but Not the Convulsive Effects, Produced by Delta Opioid Receptor Activation. I. Dripps, R. Neubig, K. Rice, E. Jutkiewicz. Univ. of Michigan, Michigan State Univ. and NIDA, NIH, Rockville, MD.
A7 926.7 The Effect of Ventral Tegmental Area Rictor Knockout on Susceptibility to Chronic Social Defeat Stress and Stress-Induced Changes in Morphine Reward. S. Kaska, M. Mazei-Robison. Michigan State Univ.

927. NOVEL PAIN THERAPEUTICS

928. EFFECTS OF PAIN ON OTHER MEASURES

**Poster**

**MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D**

**Behavioral Pharmacology**

*Presentation time: 12:30 PM–2:30 PM*

A20 928.1 Neuropathic Pain Unmasks Delta Opioid Receptor-Mediated Analgesia. *E.W. Ong, S.V. Holdridge, K.A. Sutherland, S.A. Armstrong, A.M.W. Taylor, L. Xue, C.M. Cahill.* Queen's Univ., Canada, Univ. of California, Irvine and UCLA.


929. ANTIDEPRESSANTS

**Poster**

**MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D**

**Neuropharmacology**

*Presentation time: 12:30 PM–2:30 PM*

A27 929.1 The Lysophosphatidic Acid LPA, Receptor as a Novel Molecular Target of Antidepressants in Neuronal Cells. *M.C. Olanas, S. Dedoni, P. Onali.* Univ. of Cagliari, Italy.

931. MOLECULAR PHARMACOLOGY OF HEPTAHELICAL RECEPTORS

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Molecular Pharmacology

Presentation time: 12:30 PM–2:30 PM


A42 931.2 A Panoramic Measure of Agonist, Modulator, Receptor and Signaling Pathway Selectivity. R. Zhang, M. Kavana. Merck Res. Labs.

A43 931.3 Estimation of Ligand Affinity for Receptor States in Functional Studies on G Protein-Coupled Receptors. F.J. Ehlerl, R.S.L. Stein. Univ. of California, Irvine.

A44 931.4 Optimizing the Analysis of Bias to Produce More Accurate Results. E. Stahl, F.J. Ehlerl, L.M. Bohn. Scripps Res. Inst., Jupiter, FL and Univ. of California, Irvine.


A47 931.7 Efficacy at the Mu Opioid Receptor: Insights from Orthosteric and Allosteric Ligands. K.E. Livingston, J.R. Traynor. Univ. of Michigan, Stanford Univ. and UCSD.


932. NATURAL PRODUCTS – PHARMACOLOGY AND TOXICOLOGY I

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Drug Discovery and Development

Presentation time: 12:30 PM–2:30 PM


A57 932.3 Semen Characteristics and Sperm Morphology of Pista stratiotes Linn. (Araceae) Protected Male Albino Rats (Wistar Strain) Exposed to Sodium Arsenite. O.E. Ola-Davies, O.S. Olawuwuo, O.S. Ajani, O.M. Oyeyemi. Univ. of Ibadan, Nigeria.

A58 932.4 Neuroprotective Activity of Macamides on Manganese Chloride-Induced Toxicity in U-87 MG Giblotastoma Cells. K. Gugnani, M. Bohlke, A. Pino-Figueroa. MCPHS Univ., Boston.

A59 932.5 Induction of Nrf2 Activity by Ethyl Acetate Extract of Lagernaria breviflora O.A. Orudipa, K.J. Ritchie. Univ. of Ibadan, Nigeria and Liverpool John Moores Univ., U.K.


A62 932.8 Ameliorative Effect of Ethanol Leaf Extract of Tridax procumbents L. (Asteraceae) on Sodium Arsenite-Induced Toxicities in Male Wistar Rats. S.S. Ekundayo, O.A. Odunola, O.E. Ola-Davies. Univ. of Ibadan, Nigeria.

A63 932.9 The Hepatoprotective Effects of Whole Plant Extracts of Ocimum basilicum in Experimentally Induced Liver Damage in Rats. M.O. Abatan, M.T. Asala. Univ. of Ibadan, Nigeria.
933. GENERAL TOXICOLOGY

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Toxicology

Presentation time: 12:30 PM–2:30 PM

A64 933.1 Management of Fluoride Toxicity on Adult Male Wistar Rats’ Fecundity Using Some Selected Antioxidants. F.C. Anacletus, B.M. Onyegeme-Okerenta, C.U. Iheka. Univ. of Port-Harcourt, Nigeria.


A67 933.4 Altered Ion Transport in Normal Human Bronchial Epithelial Cells following Exposure to Metal Welding Particles. J.S. Fedan, J.A. Thompson, T.G. Meighan, P.C. Erdely, J.M. Antonini. NIOSH, Morgantown, WV.


A72 933.9 Evaluation of the Embryotoxic and Teratogenic Effect of the β-HPC In Ovo. B. Mendoza-Rivera, J. Reyes-Esparza, R. de la Cruz-Cordero, L. Rodriguez-Fragoso. Autonomous Univ. of State of Morelos and Nucitec S.A. de C.V., Querétaro, Mexico.

A73 933.10 Pharmaceutical Waste Management in Pharmacies in Zagreb. M. Bosnjak, I. Bosnjak, D. Drmic. Univ. of Applied Hlth. Sci., Zagreb, Univ. of Mostar, Bosnia and Herzegovina Sch. of Med., Univ. of Zagreb, Croatia.

934. PHASE I ENZYMES: CYTOCHROME P450 ENZYMES

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Drug Metabolism

Presentation time: 12:30 PM–2:30 PM


A75 934.2 Effect of CYP17A1 17,20 Lyase Inhibitors on Regulation of Adrenal Androgen Biosynthesis. A.V. Pandey, S.S. Udhane. Univ. of Bern.


A78 934.5 Inhibition of Human CYP3A-Catalyzed Lithocholic Acid 3-Oxidation by Specific Vitamin E Isomers. A.J. Lau, S.F. Chai, J.S.M. Teo. Yong Loo Lin Sch. of Med., Natl. Univ. of Singapore.


A80 934.7 Endogenous Substrates for Tumor-Specific Human Cytochrome P450 CYP2W1 Y. Zhao, P. Ortiz de Montellano. UCSF.


A83 934.10 Mechanistic Role of Cytochrome P450 (CYP)1A2 in the Regulation of Hepatic and Pulmonary CYP1A1 Expression in Mice Treated with 3-Methylicholanthrene. B. Moorthy, P. Maturu, L. Wang, C. Chu, W. Jiang. Baylor Col. of Med.
935. TRANSPORTERS

Poster
Mon. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D

Drug Metabolism
Presentation time: 12:30 PM–2:30 PM

A84 935.1 Chronopharmacology of Cisplatin: Role of the Circadian Rhythm in Modulating the Cisplatin Transporters Levels. D.N. Sorensen, P.P. Dakup, S. Gaddameedhi. Washington State Univ.


A88 935.5 Establishing the Competitive Counterflow Assay for OATP1B1 and OATP1B3 M. Katuwal, R. Schnegelberger, E. Wityk, M. Ruggiero, B. Hagenbuch. Univ. of Kansas Med. Ctr.


A92 935.9 ATP-Binding Cassette Transporters and Cytotoxic Genes Respond Differentially to a Hepatotoxic Dose of Acetaminophen in Male and Female Mouse Brain. K.M. Flores, J.L. Renfro, J. Manautou. Univ. of Connecticut.


936. PRECLINICAL CANCER PHARMACOLOGY AND CELL SIGNALING

Poster
Mon. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D

Cancer Pharmacology
Presentation time: 12:30 PM–2:30 PM


A97 936.2 Tamoxifen Affects PLCg1 Expression in ER+ Breast Cancer Cells. R. Vergne, C. Ortiz, L. Godoy, J. Matta. Univ. of Puerto Rico at Ponce and Ponce Hlth. Sci. Univ.


A100 936.5 A Dock-Derived PEDF Mimic Targeting Laminin Receptor Downregulates VEGF Receptor. C.S. Uambaugh, A. Diaz-Quinones, M. Figueiredo. Purdue Univ. and Univ. Central del Caribe Med. Sch., PR.


A102 936.7 In Vitro Basis for Cell Line-Dependent Interaction between Sorafenib and Dasatinib in Human Non-small Cell Lung Carcinoma Cell Lines. Q. Zhou, R. Choksi, X. Guo. Univ. of South Florida Col. of Pharm. and Univ. of South Florida.

A103 936.8 Overexpression of ATP-Binding Cassette Transporter ABCG2 Mediates Acquired Resistance LDC000067, a Selective Inhibitor of Cyclin-Dependent Kinase CD. K9 M.L. Lin, C-P. Wu. Col. of Med., Chang Gung Univ., Taiwan.

937. NOVEL THERAPEUTIC AGENTS IN CANCER

Poster
Mon. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D

Cancer Pharmacology
Presentation time: 12:30 PM–2:30 PM

A105 937.2 Potent In Vitro and In Vivo Effects of EB-3D, a Novel Choline-Kinase Inhibitor in Breast Cancer. G. Viola, E. Mariotto, R. Bortolozzi, R. Ronca, L.C. Lopez Cara, A. Entrena, G. Basso. Univ. of Padova and Univ. of Brescia, Italy and Univ. of Granada, Spain.


A108 937.5 The Repurposing of Ritanserin for the Inhibition of Diacylglycerol Kinase Alpha, a Novel Therapeutic Target in Glioblastoma Multiforme. S. Boroda, T.E. Harris, B.W. Purow. Univ. of Virginia.


A113 937.10 Pre-clinical Development of rhTIMP-2 as a Novel Anti-cancer Therapeutic. A. Chowdhury, B. Wei, Y. Yamada, J.P. Schneider, W.G. Stetler-Stevenson. NCI, NIH, Gaithersburg and Frederick, MD.


938. PHARMACOLOGY TOOLS


A124 938.9 Cat-Exposure Results in Significantly More Elicited Alarm Calls (22kHz Ultrasonic Vocalizations) Compared to Snake- and Sham-Exposure during a Rodent Model of Traumatic Stress. C.M. Groeber Travis, R.F. Genovese. Univ. of California, Santa Barbara.


939. CARDIOMYOCYTES/HEART FAILURE II
Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Cardiovascular Pharmacology
Presentation time: 12:30 PM–2:30 PM
A127 939.1 Chronic Reduction of Heart Rate with Ivalabradine Does Not Alter the Extent of Myocardial Apoptosis during Post-infarction Left Ventricular Remodeling in Middle-Aged Rats. I. Kandnov, R.J. Tomanek, E.J. Dedkov. NYIT Col. of Osteo. Med. and Univ. of Iowa Carver Col. of Med.
A129 939.3 Contribution of NAPDH Oxidase-Derived Reactive Oxygen Species to Doxorubicin-Induced Cardiomyopathy Mediated by Regulator of G Protein Signaling 6 B. Chakravarti, J. Yang, Z. Luo, K.E. Ahlers. Univ. of Iowa.

940. CHANNELS IN CARDIOVASCULAR PHARMACOLOGICAL DISORDER
Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Cardiovascular Pharmacology
Presentation time: 12:30 PM–2:30 PM
A134 940.1 T-Type Voltage-Gated Ca2+ Channels Do Not Contribute to the Negative Feedback Regulation of Myogenic Tone in Murine Superior Epigastric Arteries. B. Mullan, J. Pettis, W.F. Jackson. Michigan State Univ.
A135 940.2 Resveratrol Can Enhance as Well as Relax Constructions of the Rat Tail Artery: Possible Role of Endothelial Potassium Channels. J.D. Peuler, S.M. Stom, L.E. Phelps. Midwestern Univ., IL.
A138 940.5 Decreased Role for BKCa Channels in Endothelium-Dependent Relaxation of Nitrate Tolerant Coronary Arteries. A. Mughal, M. Sane, C. Sun, S. O’Rourke. North Dakota State Univ.

941. BLOOD PRESSURE THERAPEUTICS
Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Cardiovascular Pharmacology
Presentation time: 12:30 PM–2:30 PM
A144 941.4 Carvacrol Inhibits TRPM7-Like Current in Native Myocytes from Mesenteric Artery of Hypertensive Rats. D.F. Silva, M.R. Reis, A.P. Vasconcelos, J.S. Cruz, D.A.M. Araújo. Fed. Univ. of Bahia, Brazil, Georgia Regents Univ., Fed. Univ. of Paraíba and Fed. Univ. of Minas Gerais, Brazil.
A148 941.8 The Effect of Adenosine A,-Receptor Agonists on Regional Haemodynamics in Conscious Freely Moving Rats. J. Woolard, A.J. Wheal. Univ. of Nottingham.


A151 941.11 Natriuretic Peptide Receptor-C Agonist Attenuates the Enhanced Expression of Gqα, PLCβ1 Proteins and Vascular Smooth Muscle Cell Hypertrophy from Spontaneously Hypertensive Rats: Role of ROS and ROS-Mediated Signaling. A. Jain, M.B. Anand-Srivastava. Univ. of Nebraska-Lincoln and Univ. of North Carolina at Chapel Hill.


942. PATHOBIOLOGY OF BLOOD PRESSURE CONTROL

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Cardiovascular Pharmacology
Presentation time: 12:30 PM–2:30 PM


A155 942.3 cFos Changes in the Hindbrain following Central Microinjection of Nociceptin/Orhanphin FQ in Conscious Hypertensive Rats. C. Conner, B. Drzymala, L. Koshy, L. Fortepiani, C. Franklin, H. Gottlieb. Univ. of the Incarnate Word.


A157 942.5 Pharmacological Evidence That NaHS Inhibits the Vasopressor Responses Induced by Stimulation of the Preganglionic Sympathetic Outflow in Pithed Rats. A. Sanchez-Lopez, S. Huerta De La Cruz, E.J. Gutierrez-Lara, J.H. Beltran-Ornelas, D. Centurion. CINVESTAV, Mexico City.

943. VASCULAR PHARMACOLOGY OF HEMOSTASIS AND THROMBOSIS

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Cardiovascular Pharmacology
Presentation time: 12:30 PM–2:30 PM


A168 943.3 3-O Sulfation of Heparin Is Required for Hepatic Accumulation. E.N. Harris, J. Liu, C. Miller, Y. Xu, E. Blank. Univ. of Nebraska-Lincoln and Univ. of North Carolina at Chapel Hill.

A169 943.4 The First Intracellular Loop Regulates the Platelet Thromboxane A2 Receptor-Gq-Dependent Signaling and Function. Z.A. Karim, O. Lin, F.T. Khasawneh. Western Univ. of Hlth. Sci., CA.
A170  943.5 Identification of a Biased Agonist for P2Y2 Receptor to Suppress Pro-thrombotic Gene Expression in Human Coronary Artery Endothelial Cells.  L. Zhang.  Auburn Univ.


A174  943.9 Antibody Targeted against P2Y12 Receptor Reduces Platelet Activity In Vitro and In Vivo.  N.R. Hensch, C. Fernando, Y. Liu, G. Sowa, S. Segal.  Univ. of Colorado Boulder, Univ. of Utah, and University of Kentucky.


944. PHARMACOLOGY EDUCATION

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Pharmacology Education
Presentation time: 12:30 PM—2:30 PM

945. MICROCIRCULATION: VASOMOTOR CONTROL: ENDOTHELIAL/SMOOTH MUSCLE/NERVES

Poster
(Sponsored by: Microcirculatory Society)
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:45 PM—3:00 PM


B3  945.3 Aging Impairs Spontaneous Ca2+ Signaling and Regulation by CGRP in Smooth Muscle Cells of Mouse Mesenteric Arteries.  E.M. Boerman, S.S. Segal.  Univ. of Missouri-Columbia.

B4  945.4 Endothelial Conduction of Rapid Onset Vasodilation in Mouse Skeletal Muscle.  S.Y. Sinkler, S.S. Segal.  Univ. of Missouri-Columbia.


B8  945.8 Disruption in PKC-Mediated K Channel Regulation Contributes to Enhanced Serotonin-Mediated Carotid Vessel Constriction from the Fawn Hooded Hypertensive Rat.  G. Kaur, M. Pabbidi.  Millsaps Col. and Univ. of Mississippi Med. Ctr.

B9 945.10 Distinct EC Coupling Mechanism Drives Spatial Control of Vascular Tone in Cerebral Arteries. A. Zechariah, B.O. Hald, N.G. Mazumdar, D.G. Welsh. Univ. of Western Ontario and Univ. of Copenhagen.


B12 945.12 Angiotensin II Inhibits T-Type Ca2+ Channels in Cerebral Arterial Smooth Muscle Cells. A.M. Hashad, M. Sancho, D. Welsh. Univ. of Calgary and Univ. of Western Ontario.


B16 945.16 Purinergic Signaling in Rat Mesenteric Arteries In Vivo. C. Aalkjaer, A. Mazur, V. Matchkov. Univ. of Aarhus, Denmark and Copenhagen Univ.


B18 945.18 Hyperpolarization of Mouse Pulmonary Artery Smooth Muscle and Endothelium by Calciumin Gene Related Peptide. C. Norton, S. Segal. Univ. of Missouri-Columbia.


946. MICROcirculation: MicroVaScular FLOW REGulation/OxyGEn DELIVERY/NETWORKS

Poster

(Sponsored by: Microcirculatory Society)

MON. 9:00 AM — SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B24 946.5 Comparison of Anterior Tibial Bone Microvascular Flow, with Macroversive Flow during Body Tilt. R.L. Becker, J. Siamwala, B. Macias, A.R. Hargens. UCSD.

B25 946.6 Thermally Induced Erythrocyte Aggregation by Surface Nanobubble Coalescence. H.S. Seidner, G. Gunter, S. Weber-Fishkin, M.D. Frame. Stony Brook Univ.

B26 946.7 Band 3 and Glycophorin C as Potential Mediators of Erythrocyte Aggregation during the Onset of Thermal Burn Injury. H.S. Seidner, G. Gunter, S. Weber-Fishkin, M.D. Frame. Stony Brook Univ.


B28 946.9 Influence of Light Sources and Photoperiods on Blood Physiological Variables Broilers Grown to Heavy Weights. H.A. Olanrewaju, J.L. Purswell, S.D. Collier, S.L. Branton. USDA, Starkville, MS.


947. MICROcirculation: MICROvascular MEChanics/HEMODYnamics/RHEOLOGY

Poster

(Sponsored by: Microcirculatory Society)

MON. 9:00 AM — SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B36 947.3 Erythrocyte Flux versus Flow in Microchannels as a Function of Bifurcation Architecture and Re. S. Darvishi, M. Frame. Stony Brook Univ.


B38 947.5 Intermittent Parathyroid Hormone Administration and Aortic Stiffness in Young and Old Fischer-344 Rats. R. Prisby, J. Guers, J. Kim. Univ. of Delaware.


B42 947.9 Comprehensive Hemodynamic Analysis of Arteriolar Networks in the Rat Gluteus Maximus Muscle. M. Al Tarhuni, D.N. Jackson, D. Goldman. Univ. of Western Ontario.

948. MICROcirculation:
MICROVASCULAR PATHOPHYSIOLOGY-
PHARMACOLOGY, THERAPEUTICS AND TRANSLATIONAL ASPECTS

Poster
(Sponsored by: Microcirculatory Society)
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM

B43 948.1 A Role for Sarcolemmal Membrane-Associated Protein in Mediating Autophagy in Endothelial Cells through an AMPK-Dependent Mechanism. A.P. Lakshmanan, S.M. Samuel, C. Triggle, B.S. Tuana, H. Ding. Weill Cornell Med. Col. in Qatar and Univ. of Ottawa.


B45 948.3 Inhibition of TRPC3 Channels Underlies Hypoxia/Reoxygenation-Induced Endothelial K_{Ca} Channel Dysfunction. X-C. Wang, J-H. Huang, W-T. Sun, C-M. Yu, G-W. He, Q. Yang. The Chinese Univ. of Hong Kong and TEDA Intl. Cardiovasc. Hosp., Tianjin, China.

B46 948.4 Flavonoid: Quercetin, a Multifunctional Therapeutic Agent to Reverse Acute Crisis in a Transgenic Sickle Mouse Model. S. Thangaswamy, H.H. Billett, C.A. Branch, S.M. Suzuki, S.A. Acharya. Albert Einstein Col. of Med.


B55 948.13 Comparison of Endothelial Function in Pre- and Post-exercise States between Obese and Normal-Weight Children. B.D. Tran, A. Chiu, G. Ganesan, H. Pham, M. Martinez, P.R. Galassetti. Univ. of California, Irvine.


B57 948.15 Interventions Blunting Systemic Inflammation and Oxidant Stress Improve Depressive Symptoms and Vascular Function in a Model of Metabolic Syndrome. W.J. Sheets, S.D. Brooks, P. Chantler, J. Frisbee. West Virginia Univ.

949. MICROCIRCULATION: PERICYTES AND STEM CELLS

Poster

(Sponsored by: Microcirculatory Society)

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM

B59 949.1 The Role of Pericytes for Angiogenesis in Skeletal Muscle Tissue. B. Hoier, Y. Hellsten. Univ. of Copenhagen.

B60 949.2 Evaluation of Stem Cell Fate in Cultured Microvascular Networks. M.S. Azimi, A. Strong, M. Dutreil, R. Fishel, B. Bunnell, W.L. Murfee. Tulane Univ.


950. MICROCIRCULATION: PERMEABILITY/FLUID AND SOLUTE EXCHANGE/GLYCOCALYX

Poster

(Sponsored by: Microcirculatory Society)

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B63 950.2 Rapid Increases in Fluid Shear Stress Elicit Local Lamellipodia and Elevate Microvascular Endothelial Barrier Function. S.G. Spampinato, J.W. Breslin. Univ. of South Florida.

B64 950.3 Activation of RhoA, but Not Rac1, Mediates Early Stages of S1P-Induced Endothelial Barrier Enhancement. X. Zhang, S. Adderley, J. Breslin. Univ. of South Florida.


B66 950.5 IL1β Disrupts Barrier Integrity and Elicits Formation of Focal Adhesions in Lymphatic Endothelial Cells. S.P. Adderley, X.E. Zhang, J.W. Breslin. Univ. of South Florida.

B67 950.6 Sigma-1 Receptor Agonists Compromise Barrier Function of Endothelial Cell Monolayers with Differential Impact on Cells Derived from Cardiac or Dermal Microcirculation and Dermal Lymphatics. C. Schecker, S. Adderley, J.W. Breslin. Univ. of South Florida.


951. MICROCIRCULATION: TISSUE-MICROVASCULAR INTERACTIONS/EXTRACELLULAR MATRIX

Poster

(Sponsored by: Microcirculatory Society)

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM

B74 951.1 IL-17- and TNFα-Activtion Induces Pro-inflammatory Paracrine Signaling and Basement Membrane Remodeling by Human Pericytes. H.M. Lauridsen, R. Liu, J.S. Pober, A.L. Gonzalez. Yale Univ. and Yale Univ. Sch. of Med.


952. MICROCIRCULATION II

Poster

(Sponsored by: Microcirculatory Society)

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B82 952.6 Transient Exposure to Serotonin + L-NAME Activates Early Processes Mediating Inward Remodeling of Cremasteric Arterioles, In Vivo. C. Foote. Univ. of Missouri-Columbia.


953. NOVEL MECHANISMS OF CEREBROVASCULAR DYSFUNCTION

Poster

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


954. CARDIOPULMONARY EFFECTS OF ENVIRONMENTAL STRESSORS

**Poster**

**MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D**

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


B102 954.2 Cardiovascular Implications of Environmental Stresses, a Health Call to Protect the Planet. P. Cabrales, A. William. UCSD.


B107 954.7 Exposure to PM2.5 during the First Trimester Contributes to Adult Cardiac Dysfunction. V. Tanwar, M. Gorr, C. Eichenseer, L. Wold. The Ohio State Univ.


955. BLOOD PRESSURE REGULATION II

**Poster**

**MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D**

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

956. DIABETES AND INSULIN RESISTANCE II

Poster

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM

B123 956.1 Relation between Type 2 Diabetes and m.1382 A>C Polymorphism Which Occurs Amino Acid Replacement (K14Q) of Mitochondria-Derived MOTS-c. H. Zempo. Juntendo Univ., Japan.


B129 956.7 β-Cell Deletion of Nr4a1 and Nr4a3 Nuclear Receptors Impedes Mitochondrial Respiration and Insulin Secretion. M.S. Reynolds, C.R. Hancock, J.D. Ray, K.B. Kener, J.M. Hardman, J.S. Tessem. Brigham Young Univ.


B132 956.10 Sex Differences in the Expression of Cardiac miR-29 Family MicroRNAs in Diabetic Male and Female Rats and Its Correlation with Increased Risk for Coronary Artery Disease in Diabetic Females. K. Lum-Naihe, L. Pulakat. Univ. of Missouri-Columbia and Harry S Truman Mem. VA Hosp.

957. ENDOTHELIAL CELL BIOLOGY I

Poster

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B139 957.7 Reciprocal Regulation of eNOS and Caveolin-1 Function in Endothelial Cells. Z. Chen, R. Minshall. Univ. of Illinois at Chicago.


B143 957.11 Wild Type p53 Regulates Endothelial Barrier Function by Mediating Rac1 Signaling and Inhibiting RhoA Activity. N. Barabutis, C. Birmpas, G. Thangjam, B.W. Gregory, M. Clements, J. Newton, J.D. Catravas. Old Dominion Univ. and Eastern Virginia Med. Sch.


958. HEART FAILURE II

Poster

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM

B147 958.2 Ventilatory Efficiency and Oscillatory Breathing as Clinical Markers of Surgical Outcomes in Heart Failure. N. Jesse, E. Raichlin, H. Schultz. Univ. of Nebraska Med. Ctr.
B148 958.3 Ufm1 E3 Ligase Ufl1 Is Essential for Adaptive Hypertrophy and ER Stress Response in the Heart. J. Li, G. Yue, W. Ma, H. Li, A. Zhang, F. Li, H. Li, H. Su. Georgia Regents Univ. and Univ. of Minnesota, Minneapolis.
B150 958.5 Repetitive ROS Injury Leads to Inactivation of NRF2-Induced Antioxidant Defense and Mitochondrial Dysfunction in Ischemic Heart Failure. T. Liu, A.A. Knowlton. Univ. of California, Davis and DVA No. California, Sacramento.
B151 958.6 The Effect of Monocrotaline-Induced Heart Failure on Left- and Right-Ventricular Function. S-J. Guild, J-C. Han, A. Power, M-L. Ward, L.A. Nisbet, D.S. Loisel. Univ. of Auckland.
B153 958.8 Cardiac Fibroblast Growth Factor-16 Increases Efflux Drug (ABC) Transporter Production and Resistance to Doxorubicin-Induced Cardiomyocyte Death. J. Wang, P.A. Cattini. Univ. of Manitoba.


960. ROS/CV INJURY II

Poster

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM—3:00 PM

B165 960.2 Ameliorative Effect of Gallic Acid on Doxorubicin-Induced Cardiotoxicity in Adult Wistar Rats. O.A. Adejumobi, O. Orotusin, A. Ogabeme, A. Avedapo, C. Olaogun, T.O. Omobowale. Univ. of Ibadan, Nigeria.


961. CARDIOVASCULAR AND RENAL MECHANISMS IN DIABETES AND METABOLIC SYNDROME

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B172 961.2 Protein Tyrosine Phosphatase 1B Deficiency in Pro-opiomelanocortin Neurons Does Not Enhance Leptin’s Anorexigenic Effect, but Improves Glucose Tolerance and Increases Energy Expenditure in Mice Fed a High Fat Diet. N. Aberdein, J.M. do Carmo, J.E. Hall. Univ. of Mississippi Med. Ctr.


B175 961.5 Continuous Glucose Measurements Using Telemetry in Male and Female Dahl Salt-Sensitive Rats on a High-Fat Diet. E. Gillis, E. Ralph, S. Tiesma, R. Lindquist, J. Sullivan. Georgia Regents Univ. and Data Sci. Intl., MN.

962. NEURAL AND HORMONAL MODULATION OF FLUID BALANCE AND ION HOMEOSTASIS IN HEALTH AND DISEASE

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B181 962.6 Salt and Angiotensin II Treatment Induces Fluid Congestion and Heart Failure with Increased Mortality in Balb/C Mice but Not in C57BL/6J. S.T. Jonesson, M. Becricovic-Agic, M. Hulstrom. Uppsala Univ.

B182 962.7 Chronic Vagus Nerve Stimulation Attenuates Renal Inflammation in Autoimmune-Induced Hypertension. G.S. Pham, A.S. Fairley, C.I. Maloy, K.W. Mathis. Univ. of North Texas Hlth. Sci. Ctr.

B183 962.8 Median Preoptic AT1a Receptor Knockdown Does Not Diminish Drinking in Response to Peripheral Angiotensin II Administration. B. Shell, G. Farmer, R. Emeh, J. Little, T. Cunningham. Univ. of North Texas Hlth. Sci. Ctr. and Alabama State Univ.


963. SEX DIFFERENCES IN BLOOD PRESSURE AND FLUID VOLUME HOMEOSTASIS

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


### 964. HYPERTENSION: DEVELOPING CONCEPTS

**Poster**  
**MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D**  
**Presentation time: 12:45 PM–3:00 PM**

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<th>Session ID</th>
<th>Title</th>
<th>Authors/Institutions</th>
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<tr>
<td>B192</td>
<td>Endothelial-Derived Endothelin-1 Distinctly Mediates the Development of Renal Apoptosis in Male and Female Mice.</td>
<td>C. de Miguel, K.D. Battles, W.C. Hamrick, X. Liu, D.M. Pollock, J.S. Pollock. Univ. of Alabama at Birmingham</td>
</tr>
<tr>
<td>B200</td>
<td>Endothelial-Derived ET-1 Contributes to the Pressor Response Elicited by Acute Behavioral Stress.</td>
<td>B.M. Fox, A.S. Loria, K.A. Hyndman, R. Johns, C. Jin, D.M. Pollock, M. Yanagisawa, J.S. Pollock. Univ. of Alabama at Birmingham, Univ. of Kentucky, Georgia Regents Univ. and Univ. of Tsukuba, Japan</td>
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### 965. KIDNEY IN HYPERTENSION

**Poster**  
**MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D**  
**Presentation time: 12:45 PM–3:00 PM**

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<td>B207</td>
<td>Flow-Induced Activation of NO Production Is Calcium- and HDAC1-Dependent in Inner Medullary Collecting Duct Cells.</td>
<td>R.S. Sedaka, K.A. Hyndman, J.S. Pollock. Univ. of Alabama at Birmingham</td>
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**318**
966. IMMUNE CELLS AND INFLAMMATION IMPACT ON KIDNEY FUNCTION AND HYPERTENSION

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM—3:00 PM


967. RENAL TRANSPORT MECHANISMS

Poster

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B240 967.6 Lack of an Effect of Collecting Duct-Specific Knockout of Nitric Oxide Synthase 3 on Renal Sodium and Water Excretion or Blood Pressure during Physiological Conditions. Y. Gao, D. Stuart, T. Takahashi, D. Kohan. Univ. of Utah and Vanderbilt Univ.


B243 967.9 Nitric Oxide Regulates Paracellular Resistance in Isolated, Perfused Rat Thick Ascending Limbs through cGMP. C.M. Monzon, J.L. Garvin. Case Western Reserve Univ.


B245 967.11 Determining the Kinetic Mechanism of Metformin and NBD Interaction at the Multidrug Transporter OCT2: A Mathematical and Experimental Approach. P.J. Sandoval, T.W. Secomb, S.H. Wright. Univ. of Arizona.


B248 967.14 The cGMP/PKG Signaling Pathway Underlies the Inhibitory Effect of Sildenafil Citrate on NHE3 Activity in Rat Renal Proximal Tubules. P.M.C. dos Santos, T.D. Pessoa, G. Malnic, Univ. of São Paulo.


B250 967.16 Short-Term Regulation of SGLT2 by Insulin In Vivo. C. Ghezzi, C. Scafoglio, J. Liu, J.R. Barrio, E.M. Wright, UCLA.

B251 967.17 Expression of a Diverse Array of Ca2+-Activated K-Channels Are Functionally Coupled to the Mechanosensitive TRPV4 Channel in the Late Distal Tubule. Y. Li, H. Hu, R.G. O’Neil. Univ. of Texas Hlth. Sci. Ctr at Houston.


B256 967.22 Dose-Dependent Effects of Angiotensin-(1-7) and Angiotensin II on the NHE3 Exchanger in In Vivo Proximal Tubule of Spontaneously Hypertensive Rats. R.C. Castello Branco, D.C.A. Leite-Delloba, G. Malnic, M. Mello-Aires. Univ. of São Paulo.

B257 967.23 AMPK Stimulates Osmotic Water Permeability in Rat IMCDs. Y. Wang, O. Efe, L.M. LaRoque, J.D. Klein, J.M. Sands. Emory Univ.


968. EPITHELIAL BIOLOGY AND TRANSPORT I

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B292 968.27 Elevated Level of Hypoxia Inducible Factor 1α Can Alter Renal Epithelial Function. S.S. Nag, A. Resnick. Cleveland State Univ.


969. CELL SIGNALING: PROTEINS, PATHWAYS, AND MECHANISMS

Poster

MON, 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM—3:00 PM

B295 969.1 Dehydration Impairs Synaptic Plasticity by Interfering with Late-Phase Long-Term Potentiation. A. Vashisht, M. Morykwas, A. Hegde, L. Argenta, M. McGee. Wake Forest Univ. Med.Sch.


B297 969.3 The First Cellular Step for Chemotherapy-Induced Peripheral Neuropathy after Vinristine Treatment May Require Binding to Neuronal Calcium Sensor 1 E. Viveros Araque, L. Huynh, L. Nguyen, Y. Yang, J. Rengifo, B. Ehrich. Univ. Icesi, Colombia and Yale Univ. Sch. of Med.

B298 969.4 The Intermediate Filament Cytoskeleton Is a Target of Statins and Statin-Induced Cancer Cell Death. K.P. Trogden, P. Kabiraj, N.T. Snider. Univ. of North Carolina at Chapel Hill.


B301 969.7 Transcriptional Regulation of LMTK2, a Serine/Threonine Kinase Implicated in Cystic Fibrosis. I. Dey, N. Bradbury. Rosalind Franklin Univ. Med. and Sci.

B302 969.8 The SH2 Domain of the Src Family Kinase FYN Binds to Partitioning Defective Protein 3 (PARD3) K. Hinkle, A. Haswell, B. Ballif. Norwich Univ. and Univ. of Vermont.


B308 969.14 Enhancement of Neutrophil Antimicrobial Activity by the Breast Cancer Drug Tamoxifen. R. Flores, P.A. Insel, V. Nizet, R. Corrinden. UCSD.


B311 969.17 Absence of PKCa Alters the Renal Immune Response in Angiotensin II-Dependent Hypertension. M.R. Borchart, F.E. Pulous, Y. Wang, M.A. Sun, N.J. Himmel, T.H. Vanderford, M.A. Blount. Emory Univ.

B312 969.18 Nox4 Regulates the mTor Signaling Pathway in the Dahl Salt Sensitive Model of Hypertension. V. Kumar, A. Staruschenko, A.W. Cowley; Jr. Med. Col. of Wisconsin.

B313 969.19 Involvement of the Cyclic AMP Pathway in Dendritic Cell Regulation of Th2 Immune Responses. A.M. Chinn, J. Lee, S. Herdman, E. Raz, P.A. Insel. UCSD.

B314 969.20 High Glucose Promotes the Pro-migratory Phenotype of Retinal Pigment Epithelial Cells through Increased Oxidative Stress. M. Farnoodian, C.M. Sorenson, N. Sheibani. Univ. of Wisconsin-Madison.


B318 969.24 Epac-Mediated Vasorelaxation: Epac Increases Spontaneous Transient Outward Current in Mesenteric Artery Smooth Muscle via Activation of CAMKII. C. Dart, E.S.A. Humphries. Univ. of Liverpool.
969.25 Chenodeoxycholic Acid Initiates Distinct Signaling Mechanisms to Stimulate Cl− Transport in Intestinal and Non-Intestinal Epithelial Cells. J. Domingue, A. George, M. Ao, M. Bijvelds, H. de Jonge, J. Sarathy, M.C. Rao. Univ. of Illinois at Chicago, Erasmus MC, Rotterdam and Benedictine Univ., IL.


969.30 Bayesian Analysis of E3 Ubiquitin Ligase/AQP2 Interactions in the Renal Collecting Duct. B.L. Medvar, A. Sarkar, M. Knepper. NHLBI, NIH and The Catholic Univ. of America.


969.32 GPCRomic Analysis of Human Lung Fibroblasts. A.V. Michkov, K. Sriram, N. Aroonsakool, P.A. Insel. UCSD.

969.33 N-Cadherin Adhesion Modulates RhoGTPase Signaling to Promote Endothelial Barrier Integrity. K.J. Kruse, F. Huang, S. Ying, S. Vogel, A. Malik, Y. Komarova. Univ. of Illinois at Chicago.


970. CELL VOLUME, OSMOREGULATION, AND WATER TRANSPORT

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B344 972.3 The Flavonol Quercetin Improves Endometrial Barrier Function through the Expression of Tight Junction Proteins. C. Deachapunya, S. Poonyachoti. Srinakharinwirot Univ. and Chulalongkorn Univ., Bangkok.


973. TRANSPORTERS FOR TRANSMITTERS, NUTRIENTS, METABOLITES, AND DRUGS

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM

B346 973.1 A PRIME Labeling Approach for Investigating Dopamine Transporter Endocytic Trafficking in Dopaminergic Cell Lines and Neurons. S. Wu, C. Uttamapinant, A. Ting, H. Melikian. Univ. of Massachusetts Med. Sch. and MIT.


974. ORAI AND STIM PROTEINS IN CALCIUM SIGNALLING

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM

B350 974.1 Hydrogen Sulfide Inhibits Store-Operated Calcium Entry by Targeting Orai. C. White, J. Kipp, A. Fresquez. Rosalind Franklin Univ. of Med. and Sci. and DePaul Univ.

975. TRAFFICKING, MEMBRANE DOMAINS, POLARITY, AND PROTEIN TARGETING

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM

B351 975.1 Dysregulation of ZnT2-Mediated Zn Homeostasis Impairs Epithelial Polarity and Breast Differentiation. S. Lee, S.L. Kelleher. Penn State Hershey Col. of Med.

B352 975.2 Regulation of Slack KNa Channel Trafficking by p38 MAP Kinase. S. Gururaj, A. Bhattacharjee, J. Fleites. Univ. at Buffalo, SUNY and Pfizer Pharmaceuts., NY.


976. AVIAN OSMOREGULATION: UNIQUE SOLUTIONS, UNANSWERED QUESTIONS

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM

B354 976.1 Avian Osmoregulation in Flight: Unique Metabolic Adaptations Present Novel Challenges. A.R. Gerson, C. Guglielmo. Univ. of Massachusetts Amherst and Univ. of Western Ontario.

B355 976.2 Preliminary Examination of a Role for Insulin in the Regulation of Glucose Excretion in Mourning Doves (Zenaida macroura) K.L. Sweazea, E.J. Braun. Arizona State Univ. and Univ. of Arizona.


B357 976.4 Water Balance in Desert Birds – Challenges in a Rapidly Warming Environment. B.O. Wolf. Univ. of New Mexico.

B358 976.5 Function of the Ang II System during the Ontogeny of Archosaurs. D.A. Crossley II, J. Eme, K. Tate, C. Mueller. Univ. of North Texas, California State Univ. San Marcos and McMaster Univ., Canada.
MONDAY

977. COMPARATIVE OSMOTIC, IONIC, AND ACID-BASE REGULATION

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM

B359 977.1 Effects of Varied Ionic Concentrations on the Feeding Ability of Cordylophora caspia, an Invasive Hairy Alga. J.D. Cruise, S.J. Hofer, J.L. Busch, N.C. Folino-Rorem. Wheaton Coll., IL.


B361 977.3 Development of a Reporter Assay for Identifying Osmotically Responsive Enhancers in Euryhaline Fish. X. Wang, D. Kültz. Univ. of California, Davis.

B362 977.4 Stoichiometry of Novel Protein Modifications in Livers of Warm-Adapted Threespine Sticklebacks from Baja California (Mexico). B.B. Levitan, S. Gómez-Jiménez, J. Li, D. Kültz. Univ. of California, Davis and Ctr. for Food Res. and Develop. (CIAD), Hermosillo, Mexico.


978. COMPARATIVE NUTRITIONAL AND DIETARY PHYSIOLOGY

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B365 978.2 Feeding Status and the Rate of Crop Emptying in the Hisling Cockroach, Gromphadorhina portentosa R. Medina, H. Contreras. Univ. of La Verne.

B366 978.3 The Effect of Diet on the Metabolic Rate and Microbiome of Gromphadorhina portentosa. H.L. Contreras, T. Lorenz. Univ. of La Verne.


979. COMPARATIVE BIOCHEMISTRY AND ENDOCRINOLOGY

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM

B369 979.1 Novel Function of Insulin-Like Peptides: Signaling in Sickness-Induced Anorexia. L.D. Cambron, K.J. Greenlee. North Dakota State Univ.


B372 979.4 Protein Markers and Mechanisms of Bacterial Cold Water Disease in Rainbow Trout (Oncorhynchus mykiss) Revealed Using Mass Spectrometry Proteomic Analysis. L. Root. Univ. of California, Davis.


980. LUNG PHYSIOLOGY: ENDOTHELIAL CELL BIOLOGY

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B380 980.5 Lipopolysaccharide and Isoproterenol Alter Sodium Bicarbonate Cotransporter Phosphorylation in Pulmonary Microvascular Endothelial Cells. S.L. Sayner. Univ. of South Alabama.


B383 980.8 cAMP Potentiates Caspase-1 Activation in Pulmonary Microvascular Endothelial Cells during \textit{Pseudomonas aeruginosa} Infection. P. Renema, N.A. Housley, J.P. Audia, D.F. Alvarez. Univ. of South Alabama.

B384 980.9 Endothelin-Receptor A Mediates Enhanced Agonist-Induced Intracapillary Neutrophil Retention in Lungs of Sickle Cell Disease. Z. Zheng, X. Hu, C. Dickerson, S.E. Meiler, S. Wu. Georgia Regents Univ.

B385 980.10 \( \alpha_{1\alpha} \) T-Type \( Ca^{2+} \) Channel Plays a Dual Role in Control of Pulmonary Microvascular Endothelial Cell P-Selectin Surface Expression. Z. Zheng, X. Hu, H. Chen, H. Sellak, M.F. Alexeyev, S. Wu. Georgia Regents Univ. and Univ. of South Alabama.

B386 980.11 Synergistic Role of Hemin in Endothelial Cell Activation in the Lungs of Sickle Cell Mice. X. Hu, Z. Zheng, M.F. Alexeyev, C. Dickerson, S.E. Meiler, S. Wu. Georgia Regents Univ. and Univ. of South Alabama.


B391 980.16 Analysis of the Physical Interaction between \( \alpha_{1\alpha} \) T-Type Calcium Channel and Endothelial Nitric Oxide Synthase (NOS3) in Pulmonary Microvascular Endothelial Cells. H. Sellak, H. Chen, M. Alexeyev, S. Wu. Georgia Regents Univ. and Univ. of South Alabama.

981. LUNG PHYSIOLOGY: FLUID BALANCE

Poster

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B393 981.2 Hypocapnia Aggravates Hypoxia-Induced Inhibition of Alveolar Na-Transport. H. Mairbaurl, M. Sahinoz, E. Baloglu. Univ. of Heidelberg, Germany and Acibadem Univ., Turkey.

982. ENVIRONMENTAL EXPOSURES, OXIDATIVE STRESS, AND LUNG DISEASE

Poster

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


983. CHEMICAL CONTROL OF AUTONOMIC NERVOUS SYSTEM FUNCTION IN HEALTH AND DISEASE
Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM

B400 983.1 The Effect of Obese Levels of Leptin on Peripheral Chemoreception. R.L. Pye, A. Roy, R.J.A. Wilson, C.N. Wyatt. Wright State Univ. and Univ. of Calgary, Canada.


984. CAROTID BODY STRUCTURE AND FUNCTION
Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


985. GENE AND PROTEIN RESPONSES AND FUNCTION IN HYPOXIA
Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B411 985.3 Activation of the Hypoxia-Inducible Factor Pathway Induced by PHD2 Deficiency Enhances the Effect of Running Training in Mice. A. Nunomiya. Tohoku Univ., Japan.

B412 985.4 Prolyl Hydroxylase Domain 2 Deficiency Promotes Skeletal Muscle Fiber-Type Transition via a Calcineurin/NFATc1-Dependent Pathway. J. Shin. Tohoku Univ., Japan.


986. INTERMITTENT HYPOXIA: RESPIRATORY AND CARDIOVASCULAR CONTROL AND BEYOND
Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B422 986.3 Pretreatment with Ampakine CX717 Enhances Long-Term Facilitation of Inspiratory Hypoglossal (XII) Bursting, but Only When Initial Burst Output Is Low. S. Turner, M. Elmallah, A. Hoyt, J. Greer, D. Fuller. Univ. of Florida and Univ. of Alberta.

B423 986.4 Antioxidant and Angiotensin AT1 Receptor Antagonist Treatment Reduced the Hypertension Induced by Chronic Intermittent Hypoxia in Rats, but Had Different Effects on Endothelial Dysfunction. R. Iturriaga, B. Krause, P. Casanello, A.C.R. Dias, P. Arias, R. Del Rio. Pontifical Catholic Univ. of Chile.


987. CONTROL OF BREATHING: RHYTHM GENERATION
Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:45 PM–3:00 PM


988. CONTROL OF BREATHING: CONNECTIVITY, NEUROMODULATION AND NEUROTRANSMISSION
Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

B440 988.1 ATP Excitation of the preBötzinger Complex and Inspiratory Neurons In Vitro Is Mediated in Part via a PLC/ IP3-Mediated Increase in [Ca2+] Y. Zhang, A. Gourine, S. Kasparov, T. Alvares, G. Funk. Univ. of Alberta, University Col. London and Univ. of Bristol.

B441 988.2 The Background Sodium Channel NALCN Regulates Basal Excitability of Chemosensitve Retrotrapezoid Nucleus Neurons and Stimulation of Breathing by CO2 Y. Shi, C. Abe, B. Holloway, S. Shu, N. Kumar, J. Weaver, J. Sen, E. Perez-Reyes, R. Stornetta, P. Guyenet, D. Bayliss. Univ. of Virginia.


B443 988.4 Noradrenergic Signaling in the Retrotrapezoid Nucleus Differentially Modulates Breathing in Anesthetized Rats by Alpha-1 and Alpha-2 Receptor-Dependent Mechanisms. L.M. Oliveira, D.K. Mulkey, T. Moreira, A.C. Takakura. Univ. of São Paulo and Univ. of Connecticut.

B444 988.5 Mapping Projections of Excitatory and Inhibitory preBötzinger Complex Neurons. C.F. Yang, J.L. Feldman. UCLA.


989. ASTROCYTE AND NEUROGLIAL INTERACTIONS
Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B452  989.3  Neurovascular Coupling Is Coordinated by the Activation of Nitric Oxide Production in Astrocytes. M.D. Puebla, M.F. Muñoz, X. Figueroa. Pontifical Catholic Univ. of Chile, Santiago.

990. BLOOD-BRAIN BARRIER, BRAIN BLOOD FLOW AND METABOLISM
Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM

B453  990.1  Improvement in Cerebral Autoregulation during Recovery Phase following Concussion Is Associated with Reduced Postural Sway: A Pilot Study. K. Maffuid, L. Ryan, M.N. Murphy, P.F. Davis, S. Purkayastha. So. Methodist Univ.


B455  990.3  Alterations in Doublecortin Expression in Human Neuronal Stem Cells in Response to Angiotensinergic Stimulation in Proliferation and Differentiation Conditions. B. Blanco, L.E. Couling, N. Siddiqi, J.R. Munoz, R.C. Speth. Pine Crest Sch., Fort Lauderdale and Nova Southern Univ., Fort Lauderdale and Davie, FL.

991. NEUROENDOCRINOLOGY/NEUROIMMUNOLOGY
Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B458  991.3  GABAB Receptor Plasticity in Corticotrophin Releasing Hormone Neurons in the Paraventricular Nucleus during Chronic Unpredictable Stress. Y. Gao, J-J. Zhou, D-P. Li. MD Anderson Cancer Ctr.


992. NEUROEXCITABILITY, NEUROTRANSMISSION AND NEUROPLASTICITY
Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM

B465  992.1  Differential Responses of Male and Female Microglia to LPS and Estrogen May Contribute to Sexually Dimorphic Effects of Inflammation on Phrenic Long-Term Facilitation. A.N. Gardner, B.J. Dougherty, J.J. Watters. Univ. of Wisconsin-Madison.


B473 992.9 Neuronal Specific Caveolin-1 Overexpression Enhances Dendritic Growth and Arborization in Differentiated Human Neuronal Stem Cells Derived from Induced Pluripotent Stem Cells. Z. Zhang, A. Almenar-Queralt, D.M. Roth, H.H. Patel, B.P. Head. VA San Diego Healthcare Syst. and UCSD.


B475 992.11 Phrenic Long-Term Facilitation Fluctuates Over the Estrous Cycle and Is Abolished by Ovariectomy in Young Female Rats. B.J. Dougherty, E.S. Kopp, J.J. Watters. Univ. of Wisconsin-Madison.


B477 992.13 Maternal High Fat Diet Induces the Expression of an Inhibitory Glycerinergic Current in Rat Dorsal Motor Nucleus of the Vagus Neurons Regulating Gastric Functions. C.A. McMenamin, K.N. Browning. Penn State Col. of Med.


993. NEUROINFLAMMATION/NEUROPROTECTION/ISCHEMIA

Post

Mon. 9:00 am—San Diego Convention Center, Exhibit Halls A-D

Presentation time: 12:45 PM–3:00 PM


B480 993.2 Reduction of Astrocyte and Microglial Activation in Insulin/Saline-Treated Diabetic Ketoacidosis by the KCa3.1 Blocker TRAM-34. N.S. Glaser, C.J. Little, M.D. Cohen, D.J. Tancredi, H. Wulff, M.E. O’Donnell. Univ. of California, Sacramento and Davis.


B484 993.6 Association of Impaired Hypoxia-Inducible Factor-1 Transcriptional Activity with Severer Brain Injury in Aged Rats in Comparison with Young Rats after Acute Ischemic Stroke. Y. Guo, X. Li, P. Han, Y. Xiao, P. Zhu, Z. Gou, V.J. Kang. West China Hosp., Sichuan Univ.

B485 993.7 Persistent Memory Deficits and Histone Modification after a Systemic Inflammatory Event. K. Collette, E. Donzis, N.C. Tronson. Univ. of Michigan and UCLA.


B492 993.14 Gender Differences in the Association of Neutrophil Gelatinase-Associated Lipocalin with Cognitive Impairment and Depression in Heart Failure. R.G. Schoemaker, L. Gouweleeuw, M. Ryou, R.A. Hollrah, O. Maier, U.M.L. Eisel, Univ. of Groningen, Netherlands, Univ. of Wurzburg and Univ. of Stuttgart, Germany.
994. AUTONOMIC ADJUSTMENTS TO BEHAVIORAL STRESS
Poster
**MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D**

*Presentation time: 12:45 PM–3:00 PM*


**B495 994.2** Direct Pathway from Ventral Medial Prefrontal Cortex to Dorso medial Hypothalamus Drives Psychological Stress-Induced Hyperthermia. N. Kataoka, K. Nakamura. Grad. Sch. of Med., Nagoya Univ. and PRESTO, JST, Kawaguchi, Japan.


995. AUTONOMIC ADJUSTMENTS TO EXERCISE
Poster
**MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D**

*Presentation time: 12:45 PM–3:00 PM*


996. AUTONOMIC AND RESPIRATORY INTERACTIONS
Poster
**MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D**

*Presentation time: 12:45 PM–3:00 PM*

**B503 996.1** Developmental Changes in Breathing Pattern and Neuronal Morphology in the Respiratory Centers of the Neonatal Rat. P. Williams, S. Murray, C. Wilson. Loma Linda Univ.


997. AUTONOMIC CIRCUITRY IN THERMOREGULATION OR METABOLISM
Poster
**MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D**

*Presentation time: 12:45 PM–3:00 PM*


**B510 997.3** Decreases in Core Temperature and Sweating Onset during Whole-Body Heating in Individuals with Multiple Sclerosis following Administration of 4-Aminopyridine. M. Huang, D.R. Allen, E.M. Frohman, S.L. Davis. So. Methodist Univ., Univ. of Texas at Arlington and Univ. of Texas Southwestern Med. Ctr.
998. AUTONOMIC CONTROL AND AUTOREGULATION OF THE CEREBRAL CIRCULATION

Poster

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


999. AUTONOMIC REGULATION OF BODY FLUID VOLUME

Poster

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM

B513 999.1 Stimulation of Beta Adrenergic Receptor Type-3 in the Kidney Triggers Antidiuresis: Physiological Implications and Possible Therapeutic Target to Treat NDI. G. Procino, M. Carmosino, S. Milano, M. Dal Monte, G. Schena, M. Mastrodonato, S. Torretta, A. Gerbino, P. Bagnoli, M. Svelto. Univ. of Bari, Univ. of Basilicata and Univ. of Pisa.

1000. AUTONOMIC REGULATION OF NEUROENDOCRINE FUNCTION

Poster

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


1001. DIFFERENCES IN AUTONOMIC REGULATION IN AGING OR SEX

Poster

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B517 1001.3 Sex-Dependent Effects of Prenatal Infection on Adult Cardiovascular Health: Are Females at Greater Risk for Cardiovascular Disease? L. Hayward, J. Watkins, M. Von Chamier, L. Reyes, M. Brown. Univ. of Florida and Univ. of Wisconsin-Madison.


1002. ENTERIC NERVOUS SYSTEM REGULATION

Poster

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


1003. INFLAMMATION AND AUTONOMIC REGULATION

Poster

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B524 1003.5 Anti-inflammatory Effect of Brain-Vagal Stimulation: Implication in Post-operative Gastric Ileus. P-Q. Yuan, Y. Tache. UCLA David Geffen Sch. of Med. and VA Greater Los Angeles Healthcare Syst.
1004. SYMPATHETIC REGULATION IN DIABETES AND OBESITY

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM

B525 1004.1 Exaggerated Blood Pressure and Sympathetic Reactivity in Patients with Type 2 Diabetes. J.R. Vranish, S.W. Holwerda, D.M. Keller, P.J. Fadel. Univ. of Texas at Arlington and Univ. of Iowa.


B528 1004.4 Acute Fructose Overload Induces Baroreflex Dysfunction in Close Relatives of Type 2 Diabetics. F. Santos, T. Dipp, B.D.A. Schaan, K.R. Casali, M. Morris, L.U. Signori, R.D.M. Plentz, M.C. Irigoyen. São Paulo Univ., Porto Alegre, Sao Jose dos Campos Brazil, Fort Lauderdale and Santa Maria, Brazil.

B529 1004.5 Treatment of Hypertensive Obese Zucker Rats with Metformin Enhances Phenylephrine-Induced Bradycardia and c-Fos Expression in the NTS. P. Chaudhary, A. Schreinhofer. Univ. of North Texas Hlth. Sci. Ctr.

B530 1004.6 The Effect of Stimulation of J2 Adrenergic Receptor on Glucose Uptake in Skeletal Muscles. H. Gao. Univ. of South Dakota.

1005. SYMPATHETIC REGULATION IN HEART FAILURE

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B533 1005.3 Infusion of Losartan Into the 4th Ventricle Reduced Cardiac Sympathoexcitation in Heart Failure. Y. Abukar, C.N. May. Florey Inst. of Neurosci. and Ment. Hlth., Parkville, Australia.


B535 1005.5 HCN Channel Blockers Act Pre- and Post-Synaptically to Inhibit Synaptic Transmission and Gain in the Rat Superior Cervical Sympathetic Ganglion. J.P. Horn, P.H.M. Kullmann. Univ. of Pittsburgh.

B536 1005.6 Regulation of Protein Inhibitor of Neuronal Nitric Oxide Synthase in the Paraventricular Nucleus during Chronic Heart Failure: Role for Angiotensin II-AT, R. N.M. Sharma, X. Liu, H. Zheng, K.P. Patel. Univ. of Nebraska Med. Ctr.


1006. SYMPATHETIC REGULATION IN HYPERTENSION

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B542 1006.5 Impaired Cyclic Nucleotide Signalling in Pre-hypertensive Spontaneously Hypertensive Rats: A Dichotomy of Pathways? E. Bardsley, D.J. Paterson. Univ. of Oxford.


B546 1006.9 Are C1 Neurons Involved in the Sympathetic Overactivity Induced by Chronic Intermittent Hypoxia? D.J.A. Moraes, L.G.H. Bonagamba, J.F.R. Paton, B.H. Machado. Sch. of Med. of Ribeirão Preto, Univ. of São Paulo and Sch. of Physiol. and Pharmacol., Univ. of Bristol.
1007. ALTITUDE AND HYPOXIA

Poster

Presentation time: 12:45 PM–3:00 PM


1008. METABOLISM AND ENERGETICS OF MUSCLE AND RELATED TISSUES

Poster

Presentation time: 12:45 PM–3:00 PM

B561 1008.1 mdx Mice Are Protected from Diet-Induced Obesity Possibly Due to Increased Skeletal Muscle Energy Expenditure. F. Kwon, D. Gamu, A.R. Tupling. Univ. of Waterloo, Canada.


B564 1008.4 Dysregulation of the Energy-Sensing AMPK Pathway in Skeletal Muscle-Specific ERRα-/- Mice. J. Huss, M. McDonald, A. Hamilton. City of Hope, Duarte, CA.


1009. MUSCLE ATROPHY AND HYPERTROPHY

Poster

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B570 1009.2 Low-Frequency Electrical Stimulation (Acu-LFES) attenuates denervation-induced muscle atrophy by increasing muscle regeneration. X.H. Wang, J.D. Klein, H. Wang. Emory Univ.

B571 1009.3 REDD1 alters the rate of muscle hypertrophy following functional overload. B.S. Gordon, G. Nader, J.L. Steiner, L.S. Jefferson, S.R. Kimball. Univ. of Central Florida, Penn State and Penn State Coll. of Med.

B572 1009.4 The role of Denervation in Cytokine-Mediated Muscle Dysfunction in Muscles of Old Mice. C.A. Staunton, N. Pollock, A. Lightfoot, A. Vasilaki, R. Barrett-Jolley, A. Mc Ardle, M. Jackson. Univ. of Liverpool.

B573 1009.5 Mechanically overloaded plantar muscles display ectopic sarco.linip expression that is required for Myotuber hypertrophy and Remodelling. V.A. Fajardo, B.A. Rietze, P.J. Chambers, J. Quadrilatero, A.R. Tupling. Univ. of Waterloo, Canada.

B574 1009.6 Sarco linip is upregulated in response to soleus unloading caused by tenotomy and opposes muscle atrophy. V.A. Fajardo, B.A. Rietze, P.J. Chambers, J. Quadrilatero, A.R. Tupling. Univ. of Waterloo, Canada.


B578 1009.10 Maternal protein intake as a determinant of the total number of motor units and muscle fibres in mice. A. Vasilaki, I. Giakoumaki, N. Pollock, K. Goljanek-Whysall, A. McArdle, A.A. Sayer. Univ. of Liverpool and Newcastle Univ.


B580 1009.12 Transcriptional Regulation of Skeletal Muscle Atrophy-Induced Gene Expression by Muscle-Specific Ring Finger 1 K. Kakareka, D. Waddell. Univ. of North Florida.


B582 1009.14 Identification and characterization of Allograft Inflammatory Factor 1-Like in Skeletal Muscle. K. Tran, D. Waddell. Univ. of North Florida.

B583 1009.15 (Lysine) Acetyltransferase 6B is upregulated during Neurogenic Skeletal Muscle Atrophy and is differentially expressed in MuRF1-null mice. R. West, D. Waddell. Univ. of North Florida.

B584 1009.16 FGGY Carbohydrate Kinase Domain Containing is upregulated during Neurogenic Skeletal Muscle Atrophy. B. De Las Casas, D. Waddell. Univ. of North Florida.

B585 1009.17 Basal and stretch-Induced Myotube Protein Synthesis Regulation by gp130 Signaling. S. Gao, J.A. Carson. Univ. of South Carolina.

1010. MUSCLE PLASTICITY AND GENE REGULATION/EXPRESSION

Poster

MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B590 1010.5 Long-term Quercetin treatment is unable to Sustain elevated PGC-1α pathway activity in the mdx Diaphragm. H. Spaulding, C. Balmain, J. Quindry, J. Selsby. Iowa State Univ. and Auburn Univ.


1011. CARDIAC MUSCLE

Poster

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


B598 10**11.3** Downregulation of Myocardial Pigment Epithelium-Derived Factor in Mice Exposed to Cigarette Smoke: A Possible Mechanism for Smoking-Related Cardiovascular Disease. J. McHowat, H. Kuenzel, S. Kispert, J. Marentette, G. Kolar. Saint Louis Univ.


B601 10**11.6** Regional Gradients in Tissue Anisotropy during Pressure Overload Hypertrophy in the Rat Left Ventricle. E.D. Carruth, A.D. McCulloch, J.H. Omens. UCSD.

1012. CONTRACTILE AND REGULATORY PROTEINS

Poster

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


B605 10**12.4** A Role for the Transient Receptor Potential Vanilloid 4 Channel in Modulating Uterine Tone during Pregnancy. L. Ying, C.M. Alvira, D.N. Cornfield. Stanford Univ.

1013. SMOOTH MUSCLE

Poster

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


B608 10**13.3** Transient Receptor Potential Melastatin 4 Channel Regulation by Inositol Trisphosphate Receptor in Human Bladder Smooth Muscle. A. Provence, K.L. Hristov, E.S. Roxner, G.V. Petkov. Univ. of South Carolina and Med. Univ. of South Carolina.


**1014. EXERCISE, MUSCLE, AND BONE**

**Poster**

**MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D**

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


B615 1014.4 Defective Autophagy Causes a Maladaptive Cardiac Phenotype to Exercise That Leads to Premature Death and FGFR21-Mediated Protection against Obesity and Insulin Resistance. V.A. Lira, A. Kronenberger, J.A. Call, H.M. Caster, R.O. Pereira, R.C. Laker, M. Zhang, Z. Yan. Carver Col. of Med., Univ. of Iowa, Univ. of Georgi and Univ. of Virginia.


**1015. MITOCHONDRIAL FUNCTION**

**Poster**

**MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D**

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


B626 1015.5 The Requirement of Cytochrome c Oxidase for Mitochondrial Fusion in Copper-Induced Regression of Cardiomyocyte Hypertrophy. W. Yin, R. Li, X. Feng, Y.J. Kang. West China Hosp., Sichuan Univ., China.


B630 1015.9 Sodium Nitrate Supplementation Does Not Alter Mitochondrial Bioenergetics in the Heart. C.M.F. Monaco, P.M. Miotto, G.P. Holloway. Univ. of Guelph, Canada.


1016. NUTRITION AND NUTRIENT METABOLISM

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B648 1017.5 The Effect of JAK-Inhibitor Tofacitinib on Intestinal Epithelial Barrier Function. A. Sayoc, M. Krishnan, D.F. McCole. Univ. of California, Riverside.


1018. EFFECTS OF DIET AND METABOLITES ON MUCOSAL IMMUNOLOGY

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


1019. GASTROINTESTINAL CANCER AND METASTASIS

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


1020. GASTROINTESTINAL NUTRIENT SENSORS

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM

B652 1020.1 FFA3 Activation Stimulates Duodenal Bicarbonate Secretion and Prevents NSAID-Induced Enteropathy via the GLP-2 Pathway in Rats. H. Said, Y. Akiba, I. Kaji, J.D. Kaunitz. UCLA and West Los Angeles VA Med. Ctr.


1021. GI HORMONES, PEPTIDES AND RECEPTORS

Poster
**MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D**

_Presentation time: 12:45 PM–3:00 PM_

B655 1021.1 Serotonin Type 3 Receptor B Subunit and Corticotropin-Releasing Hormone Expression in the Serotonin Transporter Knockout Rat Model of Visceral Hypersensitivity. A. Mecca, N. El-Ayache, J. Galligan. Michigan State Univ.


1022. IMMUNOLOGY AND MICROBIOLOGY OF THE GUT

Poster
**MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D**

_Presentation time: 12:45 PM–3:00 PM_

B658 1022.1 Lactobacillus rhamnosus Isolated from “amabere amaranu” Cultured Milk Modulated the Production of Inflammatory Cytokines in Caco-2 Cells. B. Ngeny, E.M. Onyango. East Tennessee State Univ.

B659 1022.2 Modulation of CD4+ T Cell Differentiation by the Probiotic _Lactobacillus reuteri_ F. Collins, R.A. Britton, L.R. McCabe, N. Parameswaran. Michigan State Univ. and Baylor Col. of Med.

1023. INTESTINAL INFLAMMATION AND PATHOPHYSIOLOGY

Poster
**MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D**

_Presentation time: 12:45 PM–3:00 PM_


B661 1023.2 Elevated D-2-Hydroxylutarate during Colitis Drives Progression to Colorectal Cancer. A. Theiss, J. Han, R. Genta, L. Sweetman. Baylor Res. Inst. and Univ. of Texas Southwestern Dallas VA Med. Ctr.


B663 1023.4 Estrogen Receptor Beta Activation Plays a Therapeutic Role in Murine Models of Inflammatory Bowel Disease via Inhibiting P2X3 and P2X7 Receptors. B. Ma, Q. Jiang, W. Li, Z. Li. Second Military Med. Univ. and Changhai Hosp., Shanghai.


1024. LIVER PHYSIOLOGY AND PATHOPHYSIOLOGY

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B676 1024.2 Zinc Deficiency Contributes to Alcohol Consumption-Induced Defect of Mitochondrial Electron Transport Chain and Overproduction of Reactive Oxygen Species in the Live of Rats. Q. Sun, W. Zhong, W. Zhang, X. Sun, Z. Zhou. Univ. of North Carolina at Greensboro, Kannapolis.

1025. METABOLIC DISEASE: GI AND LIVER FUNCTION

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM

B677 1025.1 Liver-Directed Knockout and Transgene Delivery of Arginase-1 in Mice. C.D. Funk, L. Ballantyne, A. Schulze. Queen’s Univ., Canada and The Hosp. for Sick Children, Toronto.


1026. METAL ION TRANSPORT

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B682 1026.3 Arsenic and Copper Serve as Cofactors to Produce Hepatotoxicity with Mitochondrial Damage, Double Strand DNA Breaks and Disruption of ATP Signaling. T. Chinnasamy, Y. Sharma, P. Gupta, S. Gupta. Albert Einstein Col. of Med. and Pondicherry Univ., India.

1027. MICROBIOME OF THE GI TRACT

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


1028. GENE EDITING, NON-CODING RNA, AND SYSTEMS BIOLOGY

Poster
MON. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


MIR9 Is Increased in Rheumatoid Arthritis Monocytes and Regulates Monocyte Migration. J. Gaudette, W.A. Stinson, D.A. Fox, M.A. Amin, B.J. Rabquer. Albion Col. and Univ. of Michigan.


TUESDAY, APRIL 5

Anatomy

1029. DEVELOPMENT AND GROWTH: NEURAL CREST AND PLACODES

Poster

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Developmental Biology/Morphology

Presentation time: Odd Board# 12:00 PM–1:00 PM
Even Board# 1:00 PM–2:00 PM

A259 1029.1 Molecular Changes Leading to the Abnormal Migration of Sacral Neural Crest Cells in the Dominant megaconl Mutant, a Mouse Model of Hirschsprung's Disease. T. Huang, Y. Hou, W.Y. Chan. Sch. of Biomed. Sci., The Chinese Univ. of Hong Kong.

1030. DEVELOPMENT AND GROWTH: CRANIOFACIAL

Poster

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Developmental Biology/Morphology

Presentation time: Odd Board# 12:00 PM–1:00 PM
Even Board# 1:00 PM–2:00 PM

A262 1030.1 Role of Skeletal Muscle in Inner Ear Development. I. Rot, B. Kablar. Dalhousie Univ., Canada.
A263 1030.2 The Otolithic Membrane Mediates Otolith Organization. K.L. Kramer, K.D. Thiessen. Creighton Univ.

1031. DEVELOPMENT AND GROWTH: ORGANOGENESIS

Poster

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Developmental Biology/Morphology

Presentation time: Odd Board# 12:00 PM–1:00 PM
Even Board# 1:00 PM–2:00 PM

A266 1031.1 Deletion of Notch Signaling in the Developing Mouse Kidney Results in a Disruption of Planar Cell Polarity in Tubule Epithelial Cells. D. Kears, S. Livingston, R. Baybut, G. Vanden Heuvel. Wheaton Col., IL and Western Michigan Univ. Sch. of Med.

1032. DEVELOPMENT AND GROWTH: LIMBS

Poster

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Developmental Biology/Morphology

Presentation time: Odd Board# 12:00 PM–1:00 PM
Even Board# 1:00 PM–2:00 PM

1033. DEVELOPMENT AND GROWTH: REPRODUCTION

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Developmental Biology/Morphology

Presentation time: Odd Board# 12:00 PM–1:00 PM
Even Board# 1:00 PM–2:00 PM


1034. CELL BIOLOGY: MEMBRANES, CYTOSKELETON, CELL ADHESION AND SIGNALING

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Cell Biology

Presentation time: Odd Board# 12:00 PM–1:00 PM
Even Board# 1:00 PM–2:00 PM

A278 1034.1 Identification and Characterization of a Novel Actin-Associated Protein Recruited to Structures at the Plasma Membrane. M.D. Chua, J.A. Gutman. Simon Fraser Univ., Canada.


A283 1034.6 Immunoelectron Microscopy of Endocytosis and Junction Proteins at Tubulobulbar Complexes in the Mammalian Testis. A. Adams, A.W. Vogl. Univ. of British Columbia.

A284 1034.7 The Role of Nanoscale Roughness on Cell Attachment following Titanium-Based Instrumentation of Titanium, Titanium-Zirconium, and Zirconia Surfaces. D.R. Cerutis, N.G. Fischer, R. Gnbasik, M.S. Lang, A. Baruth. Creighton Univ.


A290 1034.13 Phenformin Inhibits Myofibroblast Differentiation in Dupuytren's Contracture Cells Treated with TGF-β1. R.A. McNamar, M.B. Vaughan. Univ. of Central Oklahoma.


1035. MUSCLE: ANATOMY DEVELOPMENT AND EVOLUTION

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Bones/Muscle/Connective Tissue

Presentation time: Odd Board# 12:00 PM–1:00 PM
Even Board# 1:00 PM–2:00 PM

A296 1035.2 Hindlimb Muscles of 17.5-18.5 dpc Mice Double Null for MyoD and Trp53 Appear Indistinguishable from Muscles of Mice Null for Either Gene. C.H. Im, K. Chau, M. Lopez, X.Z. Sun, J. Tran, S. Cuya, S.B. Sharp. Cal State LA.

1036. STEM CELLS, TISSUE ENGINEERING, WOUND HEALING AND REGENERATION

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Stem Cells/ Regeneration

Regenerative Medicine (Stem Cells, Tissue Regeneration, Biomaterials)

Presentation time: Odd Board# 12:00 PM–1:00 PM
Even Board# 1:00 PM–2:00 PM

1037. BONES, CARTILAGE AND TEETH: ANATOMY AND MORPHOLOGY

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Bones/Muscle/Connective Tissue

Developmental Biology/Morphology

Presentation time: Odd Board# 12:00 PM–1:00 PM
Even Board# 1:00 PM–2:00 PM
A311 1037.3 Quantification of the 3D Orientation of Vascular Canals in Cortical Bone. I.V. Pratt, D.M.L. Cooper. Univ. of Saskatchewan.

1038. BONES, CARTILAGE AND TEETH: CRANIOFACIAL

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Bones/Muscle/Connective Tissue

Presentation time: Odd Board# 12:00 PM–1:00 PM
Even Board# 1:00 PM–2:00 PM
A317 1038.2 Ontogenetic Shape Change in the Human Cranial Base and Its Relationship to Positional Behavior. F.R. McGechie. Univ. of Missouri-Columbia.


A320 1038.5 Factors Affecting Craniofacial Development in a Mouse Model of Crouzon Syndrome. K. Brakora, C.J. Percival, R. Green, S-G. Gong, B. Hallgrimsson, R. Marcucio. UCSF, Univ. of Calgary and Canada and Univ. of Toronto.


A322 1039.1 Evolvability and the Diversification of the Craniofacial Skeleton in the Domesticated Pigeon (Columbia livia) M. Linde-Medina, J. Fondon, R. Marcucio, B. Hallgrimsson, N.M. Young. UCSF, Univ. of Texas at Arlington and Univ. of Calgary, Canada.


A326 1039.5 Mechanically-Induced Osteocyte/Th17 Cell Signaling and Subsequent Osteoclast Recruitment. T. McCumber, K. Drescher, D. Cullen. Creighton Univ.


A337 1039.16 Determination of Palatal Bone Density to Aid in Oral Mini-implant Surgical Success. A. Flores, J.C. Reed. Grand Valley State Univ.


1040. ANATOMY


A340 1040.2 A Medium-Sized, Enlarged Anatomical Model of Human Ear in Plaster (First Middle of the 20th Century) P.P. Le Floch-Prigent, V. Fromager, J-B. Gillot. Versailles-Saint Quentin Univ., France.
A341 1040.3 A Very Large-Sized Enlarged Anatomical Model of Human Ear in Plaster (First Middle of the 20th Century) P.P. Le Floch-Prigent, M. Fromanger, J-B. Gillot. Versailles-St. Quentin Univ. and Librairie Alain Brieux, Paris.

A342 1040.4 An Enlarged Anatomical Model of Ear in Wax (Tramond, Paris), Late 19th Century. P.P. Le Floch-Prigent, M. Fromanger, J-B. Gillot, S. Verdeille. Versailles-St. Quentin Univ. and Librairie Alain Brieux, Paris and CIMOP.


1041. ANATOMY: ANIMAL MODELS

Poster

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, ExHiBIt HALLS A-D

Presentation time: Odd Board# 12:00 PM–1:00 PM
Even Board# 1:00 PM–2:00 PM


A353 1041.2 Is Diabetic Glomerular Basement Membrane Thickening Hyperglycemia Driven or Is It a Part of the Normal Aging Process? E. Carlson, J. Bleth, C. Miller, D. Laturnus, L.K. Young, E. Schaff. Univ. of North Dakota.


1042. ANATOMY: RESPIRATORY

Poster

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, ExHiBIt HALLS A-D

Presentation time: Odd Board# 12:00 PM–1:00 PM
Even Board# 1:00 PM–2:00 PM


1043. ANATOMY: MUSCULOSKELETAL

Poster

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, ExHiBIt HALLS A-D

Bones/Muscle/Connective Tissue

Presentation time: Odd Board# 12:00 PM–1:00 PM
Even Board# 1:00 PM–2:00 PM


1044. ANATOMY: GASTROINTESTINAL

Poster

TUE. 9:00 AM — SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: Odd Board# 12:00 PM–1:00 PM
Even Board# 1:00 PM–2:00 PM


1045. ANATOMY: UROGENITAL

Poster

TUE. 9:00 AM — SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: Odd Board# 12:00 PM–1:00 PM
Even Board# 1:00 PM–2:00 PM


1046. ANATOMY: FORM AND VARIATION

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: Odd Board# 12:00 PM–1:00 PM
Even Board# 1:00 PM–2:00 PM


A390 1046.7 A Rare Case of Bilateral Supra-Piriformis Pelvic Exit of the Common Fibular Nerve and Its Clinical Relevance. C. Vasan, E. Goldman, N. Vasan. Cooper Med. Sch. of Rowan Univ., NJ.


A392 1046.9 The Facial Nerve: The Path of Its Branches to the Muscles of the Infraorbital Region That Lift the Upper Lip in Relation to the Deep Fascia of the Midface. C. Andretto Amodeo, V. Delmas, A. Casasco, G.S. Keller. Casa di Cura La Madonnina, Milan, Univ. Paris Descartes, Univ. of Pavia and David Geffen Sch. of Med., UCLA.


A398 1046.15 The Relationship between the Parotid Fascia and the Deep Fascia of the Infraorbital Region: A New Concept in Descriptive and Applied Anatomy. C. Andretto Amodeo, V. Delmas, A. Casasco, G.S. Keller. Casa di Cura La Madonnina, Milan, Univ. Paris Descartes, Univ. of Pavia and David Geffen Sch. of Med., UCLA.

A399 1046.16 Subcutaneous Tissue Depth over Intraosseous Infusion Sites in a Cadaveric Model. M. Glazier, J.C. Reed. Grand Valley State Univ.

Biochemistry and Molecular Biology

1047. DOUBLE-STRAND BREAK AND REPAIR
Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:00 PM–1:30 PM


1048. FANCONI ANEMIA
Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:30 PM–2:00 PM

C3 1048.1 A Nucleolar Role for the Fanconi Anemia Pathway Protein, FANCI, in rDNA Transcription. S.B. Sondalle, S. Longerich, P. Sung, S.J. Baserga. Yale Univ.

1049. REPAIR DURING DNA REPLICATION
Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:30 PM–2:00 PM

C4 1049.1 Mitochondrial DNA Damage Persistence Due to DNA Polymerase Gamma Disease Mutations. R. Krasich, W.C. Copeland. NIEHS, NIH, Research Triangle Park.
C5 1049.2 A Genome Wide Screen to Identify Genes That Prevent the Accumulation of Mutations. H.W. Hombauer, T. Schmidt, G.X. Reyes Cava, S. Longerich, S. Gries, M. Meurer, M. Knop. DKFZ and Univ. of Heidelberg, Germany.
C7 1049.4 Rad18 Regulates BRC2A, FANCDO2, and Rad51 to Repair Topoisomerase 1 Inhibitor-Induced DNA Lesions through Homologous Recombination. K. Palle, K. Tripathi, D.W. Clark, C. Mani. USA Mitchell Cancer Inst., Mobile, AL.

1050. STRUCTURAL INSIGHTS INTO DNA REPAIR
Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:00 PM–1:30 PM


1051. TELOMERES AND TELOMERASE
Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:00 PM–1:30 PM

C11 1051.2 The Roles of Telomerase in Regeneration during Aging and the Telomeric DNA Sequence Identification in Aeolosoma viride C.F. Chen. Natl. Taiwan Univ.

1052. TRANSLESION AND ERROR-PRONE DNA POLYMERASES
Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:30 PM–2:00 PM

1053. CHROMATIN REMODELING AND EPIGENETICS

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:30 PM–2:00 PM


C28 1053.5 Age-Related Epigenetic Modifications Contribute to Dysfunction of Male Germine Progenitor Cells. T-L. Lee, J. Liao, W-Y. Chan. The Chinese Univ. of Hong Kong.

C29 1053.6 Sphingosine Kinase 2 Generated Nuclear S1P Is an Epigenetic Co-regulator of Pseudomonas aeruginosa-Induced Lung Inflammation. D.L. Ebenezzer, P. Fu, E. Berdyshiev, V. Natarajan. Univ. of Illinois at Chicago.


1054. NON-CODING RNA AND GENE REGULATION

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:00 PM–1:30 PM


C35 1054.5 Transfer RNA Fragments: A Novel Class of Non-micro Short RNAs That Uses Ago1, 3 and 4 to Repress Specific Target RNAs through 5'Sequence Se伸dings. A. Dutta, P. Kumar, M. Kiran, C. Kuscu. Univ. of Virginia.


C38 1054.8 Characterizing the Functional Roles of miR-1017 M. de Cruz, A. Flynt. Univ. of So. Mississippi.

1055. TRANSCRIPTIONAL REGULATION

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:30 PM–2:00 PM

C39 1055.1 DNA Distortions Imposed by the Transcriptional Regulator PecS from Pectobacterium atrosepticum Are Attenuated on Protein Oxidation. D.K. Deochand, A. Grove. LSU, Baton Rouge.


C43 1055.5 CTEN Is a Novel ΔNp63α Target for the Regulation of Prostate Cell Adhesion and Is Associated with Prostate Cancer Progression. Y.-C. Liao, W.-M. Wu, K. Wang, Y.-C. Chen, S.H. Lo. Natl. Taiwan Univ. and Univ. of California, Davis.


C45 1055.7 Characterization of Marr Family Transcriptional Regulator BTH_10021 in Burkholderia thailandensis. A. Sabrin, A. Gupta, A. Grove. LSU, Baton Rouge.

C46 1055.8 Tumor Suppressor Phosphatase PHLPP Regulates Gene Expression through Suppression of Transcription Factor Activation. K. Cohen Katsenelson, J.D. Stender, C. Glass, A.C. Newton. UCSD.


C48 1055.10 The Role of the Nucleoid-Associated Protein HU in E. coli Transcription. S. Bugliosi, E. Jessen, R. Landick. Univ. of Wisconsin-Madison.

C49 1055.11 Regulation of RAP1A and RAP1B by Estrogen in Human Breast and Ovarian Cancer Cell Lines. N. Elder. Univ. of St Thomas, MN.


1056. RNA STRUCTURE AND TRANSLATION

Poster

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM—2:00 PM

C58 1056.1 Eukaryotic Translation Initiation Factor eIF4G Utilizes Different Domains to Coordinate with eIF4A, eIF4B and eIF4E In binding 3' Cap-Independent Translation Element of Barley Yellow Dwarf Virus. P. Zhao, D. Goss. Hunter Col., CUNY.


C60 1056.3 Ribosomal Frameshifting of Trichomonas vaginalis Virus 2, 3, and 4 Isolates. L. Ai. Millsaps Col., MS.


1057. RNA STRUCTURE AND DYNAMICS

Poster

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM—1:30 PM

C62 1057.1 Thermodynamic Examination of the U6 RNA and DNA Constructs. J.A. Hanson. Colorado Col.


C64 1057.3 2-Aminopurine Is a Reporter for the Formation of the C-A+Ÿ Wobble Base Pair in U6 snRNA. M. Grossenbacher. Colorado Col.


1058. RNA STRUCTURE, FUNCTION, AND REGULATION

Poster

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM—1:30 PM

1059. NUCLEAR ARCHITECTURE AND CHROMATIN ORGANIZATION

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM—1:30 PM


1060. RNA-BASED GENE REGULATION

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM—2:00 PM


1061. SMALL RNAs

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM—2:00 PM


1062. AUTOPHAGY

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM—1:30 PM


C75 1062.4 PGC-1alpha a Novel Regulator of Autophagy. G. Salazar, J. Huang, Y. Zhao. Florida State Univ.


C78 1062.7 GSK3β Modulates Excess Nutrient-Induced Autophagy Impairment in Human Aortic Endothelial Cells via FOX. O1 K. Weikel, N. Ruderman, Y. Ido. Boston Univ. Sch. of Med.

C79 1062.8 IP3 Receptor Determines Increased Basal Mitochondrial Calcium and Autophagy Regulation in Mdx Skeletal Muscle. D. Valladares, Y. Utreras-Mendoza, C. Morales, C. Campos, F. Westermeier, S. Lavandero, E. Jaimovich. Univ. of Chile.


1063. NEW FRONTIERS IN PROTEIN QUALITY CONTROL

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM—1:30 PM

C81 1063.1 Role of the CHIP/Hsp70 Protein Quality Control Complex as an Information Processor. R.C. Page. Miami Univ.


1064. PROTEIN DEGRADATION IN HEALTH AND DISEASE

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM


C87  1064.3 The Interplay between S-Palmitoylation and Gamma-COP Binding of MAN1B1 Manages Alpha-1-Antitrypsin Quality Control. E. Young, R.N. Sifers. Baylor Coll.

1065. REGULATION OF PROTEIN SYNTHESIS

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM

C88  1065.1 Translational Recoding in Human Disease. V.M. Advani, R.C. Kobylarz, J.D. Dinman. Univ. of Maryland College Park.

C89  1065.2 Alternative Ribosomes Synthesize Alternative Proteins. A. Dow, S. Prisic, Univ. of Hawaii.

1066. RIBOSOME AND TRANSLATION

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM–1:30 PM


C91  1066.2 Development of Glutaminyl-tRNA Synthetase from Pseudomonas aeruginosa as a Platform to Screen for Inhibitors of Protein Synthesis. Y. Escamilla, C. Hughes, Y. Hu, J.M. Bullard. Univ. of Texas Rio Grande Valley.

C92  1066.3 Development of Prolyl-tRNA Synthetase from Pseudomonas aeruginosa as a Platform to Screen for Inhibitors of Protein Synthesis. N. Pena, Y. Hu, J.M. Bullard. Univ. of Texas Rio Grande Valley.

C93  1066.4 Development of Methionyl-tRNA Synthetase from Pseudomonas aeruginosa as a Platform to Screen for Inhibitors of Protein Synthesis. S. Robles, Y. Hu, J.M. Bullard. Univ. of Texas Rio Grande Valley.

C94  1066.5 Development of Arginyl-tRNA Synthetase from Pseudomonas aeruginosa as a Platform to Screen for Inhibitors of Protein Synthesis. D. Cantu, H. Salazar, J.M. Bullard. Univ. of Texas Rio Grande Valley.

1067. STRUCTURE AND ASSEMBLY OF MOLECULAR COMPLEXES

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM–1:30 PM


C96  1067.2 Knockdown of Axonemal Inner Arm Dynein Protein IC138 Trypanosoma brucei Causes Flagellar Detachment and Defects in Motility. A. Marchese, C. Wilson, A.L. Springer. Siena Col., NY.


C98  1067.4 The Role of the C1q Domain of Zebrafish Otolin1a in Otolith Morphogenesis. O. Das. SUNY Downstate Med. Ctr.

1068. TRNA SYNTHETASES: STRUCTURE, MECHANISM AND EVOLUTION

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM

C99  1068.1 Altering the Enantioselectivity of Tyrosyl-tRNA Synthetase by Insertion of a Stereospecific Editing Domain. E.A. First, C. Richardson. LSU Hlth. Sci. Ctr. in Shreveport and Univ. of Virginia.

1069. UBIQUITIN PATHWAY AND TARGETING

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM

C100 1069.1 APOBEC3F-Vif Binding Interface Elucidated by Multiple Experimental Approaches. R. Harris, C. Richards, N. Shaban, B. Anderson, O. Demir, R. Amaro. Univ. of Minnesota and HHMI, Minneapolis and UCSD.


C102 1069.3 Glucose and Calcium-Responsive Phosphatases Mediate Crosstalk between Organelle and Plasma Membrane Protein Pumps. S.D. Velivela, P.M. Kane. SUNY Upstate Med. Univ.

1070. RECENT ADVANCES IN PROTEIN ENGINEERING

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM–1:30 PM

C110 1070.1 A Novel Thermotolerant β-Glucosidase from Aspergillus nidulans Has Activity across a Broad pH Profile and a Likely Bacterial Origin. R. Auta, I. Radecka, P. Erickson. Salisbury Univ.


C112 1070.3 Hepatitis B Immunoglobulin Produced from Long-Term Expansion of B Lymphocytes from Donors with High Titer HBsAb. Y. Yang, C. Jie, J. Xu, X. Cai. Nanjing Red Cross Blood Ctr., China.


C116 1070.7 Investigating the DNA Binding Constraints of the I-Sob2593 Meganuclease. R. Ruff, B. Kaiser. Seattle Univ.
1074. EXPERIMENTAL AND COMPUTATIONAL APPROACHES TO SYSTEMS

Poster

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

Presentation time: 12:00 PM–1:30 PM


1075. FUNCTIONAL PROTEOMIC STUDIES

Poster

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

Presentation time: 12:00 PM–1:30 PM

C125 1075.1 Sicpin, a Multifunctional Immunomodulatory Salivary Protein from Black Flies Significantly Reduced T and B Cell Proliferation and Directly Binds to Soluble CD4 Receptor. E. Calvo, A.C. Chagas, J. Ribeiro. NIAID, NIH, Rockville, MD.


C128 1075.4 Characterization of Bacterial Homologs of Prostaglandin H2 Synthase Using GC/MS. C. Nichols, M. Butchy, B. Selinsky. Villanova Univ.

C129 1075.5 Characterization of a New Ferritin Protein from the Polychaete Chaetopterus sp. N. Hamlish, E. De Meulenaere, D. Deheyn. Wesleyan Univ., CT, Scripps Instn. of Oceanography and UCSD.


1076. GENOMICS

Poster

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM


C133 1076.2 Genomic Characterization of Novel Genes in the Novel Mycobacterium Phage Butters. M.C. Juarez, M. Grajales, C.M. Mageeney, M.A. Kenna, V.C. Ware. Lehigh Univ.

C134 1076.3 Signal Transduction and Mechanism of TGF Cleave Prediction in RTK Re-activation and Therapeutic Resistance in Gastric Cancer. C. Harrison, J.L. Wilson, E. Fraenkel, A. Herrlich, D. Lauffenburger. Univ. of Massachusetts Boston, MIT and Harvard Insts. of Med.


C136 1076.5 Characterization of YML020W in Saccharomyces cerevisiae K. Shoemaker, J. Keeney. Juniata Col., PA.


1077. GLOBAL ANALYSIS OF PROTEIN FUNCTION

Poster

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM

**1078. INTEGRATIVE PROTEOMICS OF PROTEIN COMPLEXES**

Poster  
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER,  
EXHIBIT HALLS A-D  

*Presentation time: 12:00 PM–1:30 PM*

C141 1078.1 Mapping Tyrosine Phosphorylation Networks by Chemical Proteomics. W.E. Rogers, M. Ghassemian. San Diego State Univ. and UCSD.


**1079. MICROARRAYS**

Poster  
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER,  
EXHIBIT HALLS A-D  

*Presentation time: 12:00 PM–1:30 PM*


**1080. POSTTRANSLATIONAL MODIFICATIONS (SYSTEMS BIOLOGY AND PROTEOMICS)**

Poster  
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER,  
EXHIBIT HALLS A-D  

*Presentation time: 12:00 PM–1:30 PM*


C146 1080.3 Phosphorylation of Neuronal Proteins in *Drosophila melanogaster* Changes with Age. A. Thomas, A. Haberman. Univ. of San Diego.

**1081. PROTEIN PROFILING IN NORMAL AND DISEASE STATES**

Poster  
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER,  
EXHIBIT HALLS A-D  

*Presentation time: 12:30 PM–2:00 PM*


C148 1081.2 Effect of over the Counter Teeth Bleaching Products on the Proteins of Human Teeth. D. Swanson, K. Keenan. Stockton Univ., NJ.


C150 1081.4 Analysis of the Expression of the Basigin Subset of the Immunoglobulin Superfamily in Mouse Brain. T.N. Hall, J.D. Ochrietor. Univ. of North Florida.


C153 1081.7 Proteomic Analysis of Ewing's Sarcoma Cell Lines. R. Thompson, A. Kruchten. Linfield Col., OR.

**1082. METHODS**

Poster  
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER,  
EXHIBIT HALLS A-D  

*Presentation time: 12:30 PM–2:00 PM*

C154 1082.1 Integrin β1 and ICAM-1; Enrich Markers for Isolating Rat Mesenchymal Stem Cells from Bone Marrow. E.G. Suto, Y. Mabuchi, N. Suzuki, Y. Ogata, C. Akazawa. Grad. Sch. of Hlth. Care Sci., Tokyo Med. and Dent. Univ.


C156 1082.3 Evaluating the Extraction Efficiency of Food Borne Pathogens on Automated Homogenizer Platforms. S. Garrett, J. Atwood, B. Easparro. Omni Intl., Kennesaw, GA.


1083. ENZYME MECHANISM

Poster

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM–1:30 PM


C163 1082.10 Diet Alters Age-Related Remodeling of Aortic Extracellular Matrix in Mice Susceptible to Atherosclerosis. S.R. Watson, P. Liu, E.A. Pena, S.M. Han, S.M. Lessner. Univ. of South Carolina Sch. of Med. and Univ. of South Carolina.

C164 1082.11 Using Polymerase Chain Reaction Inhibition to Study Small Molecule Binding to DNA. R. Ghannam, S.R. Smith, M.A. Benore. Univ. of Michigan-Dearborn.


1083.9 1083.9 9(Z),12(Z)-Eicosadienoic Acid as a Probe for Substrate Binding by Soybean Lipoxynagenase-1 D.J. Hinnenkamp, C.H. Clapp. Bucknell Univ.


C178 1083.12 Comparison of Enzymatic Activities of Pokeweed Antiviral Protein Isoforms toward RNA from the Tobacco Etch Virus. V.R. Aitbakieva, A.V. Domashevskiy. John Jay Col. of Criminal Justice, NY.


C182 1083.16 Protein-Protein Interactions Reduce Ca$^{2+}$-Requirements for Transglutaminase 2 Mediated Post-translational Modifications of α-Synuclein. T.N. Zeczycki, J.S. Viscomi. Brody Sch. of Med. at East Carolina Post.


C184 1083.18 Investigating the Gcn5 Histone Acetyltransferase Chemical Mechanism. B.H. Young, C.E. Berndsen. James Madison Univ.


C188 1083.22 The Role of Lys42 on the Catalytic Efficiency of the ADP-Glucose Pyrophosphorylase from Escherichia coli A.L. Mahaffey, S. Aiyash, M.A. Ballicora. Loyola Univ. Chicago and Stritch Sch. of Med. Loyola Univ. Chicago, Maywood.

C189 1083.23 Substrate-Induced Structural Changes in the Mevalonate Diphosphate Decarboxylase from Enterococcus faecalis. C-L. Chen. Purdue Univ.
1084. RADICALS IN CATALYSIS

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM–1:30 PM


C191 1084.2 Radical SAM Enzyme-Catalyzed Formation of Thioether Crosslinks in Ribosomal-Produced Peptides: Formation of the RiPP Natural Product Thuricin CD by the Radical Sam Enzymes TrnC and TrnD. J.T. Jarrett, C.E. Holjencin. Univ. of Hawaii at Manoa.

1085. STRUCTURAL STUDIES OF COMPLEX SYSTEM

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM

C192 1085.1 Structure of a Key Intermediate in the Reaction Catalyzed by the Dual Specificity Methylyase RimN. E.L. Schwalm, T. Grove, A. Boal, S. Booker. Penn State and HHMI.


C194 1085.3 The NMR Model of the 39-kDa Tri-Domain IsdH Protein from Staphylococcus aureus Suggests That It Uses Inter-domain Motions to Recognize Human Hemoglobin and Promote Heme Release. M. Sjodt, R. Macdonald, D.A. Gell, J.S. Olson, R.T. Clubb. UCLA, Univ. of Tasmania, Australia and Rice Univ.

1086. ROLE OF DYNAMICS IN ENZYME CATALYSIS

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM


1087. CHEMICAL BIOLOGY OF SUSTAINABILITY

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM–1:30 PM


1090. MODE OF ACTION OF BIOACTIVE NATURAL PRODUCTS

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM

C206 1090.1 Anti-microbial Properties of Plants Native to the Philippines and to Minnesota. B.M. Pethke. Saint Mary’s Univ. of Minnesota.


C212 1090.7 Characterization of the Role of Phenolic Compounds in the Inhibition of α-Amylase by Kombucha Tea. S.R. Armando, R.A. Schneider, F.M. Mann. Winona State Univ.


C215 1090.10 Induction of Apoptosis in DLD-1 Colorectal Cancer Cells Using Water Soluble Compounds from Rumex crispus M. Bhandari, H. Lockwood, B. Clack. Stephen F Austin State Univ.


1091. OMICS APPROACHES IN CHEMICAL BIOLOGY

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM–1:30 PM


1092. PROTEIN-SMALL MOLECULE INTERACTIONS

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM–1:30 PM


C219 1092.2 Synthesis of Effective Water-Soluble Fluorescein Dibenzyl Ether Cytochrome P450 Substrates. C.M. Stepler, M.A. Gallivan, L.M. Wysocki. Wabash Col., IN.

C220 1092.3 Influence of NSAID Flurbiprofen on Protein Helix-Helix Interactions. N. Gugala, R.J. Turner. Univ. of Calgary, Canada.


C222 1092.5 New Tricks for an Old Drug: Inhibition of Glyceraldehyde-3-Phosphate Dehydrogenase by Dithiolethiones to Suppress Cancer Cell Proliferation. M.R. White, T.W. Miller, C. Switzer, J. Chavis, P. Xu, D. Roberts, D. Wink, E.D. Garcin. Univ. of Maryland Baltimore County and NCI, NIH.


1093. BACTERIAL GLYCOSYLATION AND THE MICROBIOME

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM

1094. CARBOHYDRATE ACTIVE ENZYMES

Poster

Tue. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D

Presentation time: 12:30 PM–2:00 PM


1095. CHEMICAL BIOLOGY APPROACHES TO UNDERSTAND GLYCAN-RELATED DISEASES

Poster

Tue. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D

Presentation time: 12:00 PM–1:30 PM


C228 1095.2 Glycome Sequencing: Are We There Yet? V.N. Reinhold. Univ. of New Hampshire.

C229 1095.3 Bacterial Cell Wall Remodeling to Study the Production of Immunoactivating Fragments. H. Liang, K.E. DeMeester, C-W. Hou, C.L. Grimes. Univ. of Delaware.

C230 1095.4 Human-Specific Derived Alleles of CD33 and Other Genes Protect against Post-reproductive Cognitive Decline. S.A. Springer, F. Schwarz, T. Altheide, N.A. Varki, P. Gagneux, A. Varki. UCSD.

C231 1095.5 ABO Blood Type Correlates with Survival on Prostate Cancer Vaccine Therapy. J. Glidersleeve. NCI at Frederick.

1096. PROTEIN-CAROHYDRATE INTERACTIONS

Poster

Tue. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D

Presentation time: 12:00 PM–1:30 PM


1097. STRUCTURAL BIOLOGY OF CARBOHYDRATE-PROTEIN INTERACTIONS

Poster

Tue. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D

Presentation time: 12:30 PM–2:00 PM

C235 1097.1 Introducing Glycans to Molecular Visualization Software. D.F. Thieker, J. Hadden, J. Stone, R. Woods. Univ. of Georgia and Univ. of Illinois at Urbana Champaign.

C236 1097.2 Carbohydrate-Protein Interactions with Polysaccharides as Unique Carbohydrate-Inspired Polymer Structures. S.L. Chin, M.W. Grinstein. Boston Univ.

C237 1097.3 High Affinity Binding of a MUC1 Specific Antibody to a Glycopeptide Mediated by Conformational Selection. C.L. Brooks, R. Movahedin, T.M. Brooks, N. Supekar, G-J. Boons. California State Univ., Fresno and Univ. of Georgia.


1098. BIOCHEMICALLY-INFORMED IMAGING IN DRUG DISCOVERY

Poster

Tue. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D

Presentation time: 12:30 PM–2:00 PM

C239 1098.1 Longitudinal Monitoring of Nanoparticle Accumulation in PC-3 Tumors. J.C. Nneji, C.A. Gharagouzloo. Northeastern Univ.

C240 1098.2 Targeting Peptide Bound to Major Histocompatibility Complex Allows Visualization of Insulin Secreting Beta Cells In Vivo. K.R. Miller, J. Taft, A. Koide, M. Johnson, R. Tisch, S. Koide, E. Collins. Univ. of Mount Union, Univ. of Chicago and Univ. of North Carolina at Chapel Hill.

1099. METABOLISM AND CANCER

Poster

Tue. 9:00 AM—San Diego Convention Center, Exhibit Halls A-D

Presentation time: 12:30 PM–2:00 PM


C242 1099.2 Activation of LXR Inhibits the Development of Pulmonary Carcinomas Induced by 3-Methylcholanthrene and Butylated Hydroxytoluene. Y. Liu, Q. Wang, X. Ma, Y. Chen, L. Sun, Y. Duan, J. Han. Nankai Univ., China.


C250 1099.10 Common Jamaican Herbal Medicine, Bizzy Nut, Inhibits Cell Cycle in Prostate Cancer Cells. W. Gray, A. Chumbow, O. Phillips. Southern Univ. A&M Col., LA.


C258 1099.18 Differential Regulation of mTORC1 by Amino Acids. J.L. Jewell, K-L. Guan. Univ. of Texas Southwestern Med. Ctr. and UCSD.


C262 1099.22 Physiological Role of DAB2IP in Regulating the Activity of Glycolysis in Prostate Cancer. Y. Li, J. Jea, R-C. Pong, J. Yang, G. Xiao, D.A. Boothman, J-T. Hsieh. Kaohsiung Med. Univ., Taiwan and Univ. of Texas and Southwestern Med. Ctr.


1100. MITOCHONDRIA IN HEALTH AND DISEASE

Poster

TUE 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM—1:30 PM


C266 1100.2 Mitochondria as Signaling Organelles in Aging. V. Titorenko, A. Leonov, A. Arlia-Ciommo, Y. Medkour, V. Svistkova. Concordia Univ., Canada.


1101. NATURAL PRODUCT BIOSYNTHESIS FOR NEW DRUG LEADS

Poster

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM–1:30 PM

C282 1101.1 Effect of Aqueous Leaf Extract of Pennisetum purpureum in Alloxan-Induced Diabetic Wistar Rats. S.I. Omegodu, B.M. Onyegeme-Okerenta. Univ. of Port Harcourt, Nigeria.

C283 1101.2 The Biosynthesis of the Indolic Acid Moiety from the Antibiotic Nosihpethide. E. Badding, S. Booker. Penns State Univ. and HHMI.

C284 1101.3 Hypoglycaemic Activity of the Aqueous Extract of Costus Afer Stems Alone and in Combination with Metformin. C. Monaco, F.C. Anacleitus, T.K. Nwauche. Univ. of Port Harcourt, Nigeria.

C285 1101.4 Quantification of Ethanolic Dandelion Root Extract on the Growth Inhibition of Saccharomyces cerevisiae H.M. Samuelson, T. Villari, R. Dunkley, F.M. Mann. Winona State Univ.

C286 1101.5 Sub-acute Administration of Ethanol Extracts of Erythrophaea suavolens Induced Hepatotoxicity and Oxidative Stress in Wistar Strain Albino Rats. R.A. Adisa, C.U. Nwafoa, S. Akujobi, J. Oribabor. Univ. of Lagos, Nigeria and Univ. of Greenwich, U.K.

1102. INTERMICROBIAL INTERACTIONS

Poster

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM


1103. MICROBE-HOST INTERACTION

Poster  
**TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D**

*Presentation time: 12:30 PM—2:00 PM*


C292 1103.4 Uncovering the Mechanism of Trogocytosis in Entamoeba histolytica S.E. Feeney, K.S. Ralston. Univ. of California, Davis.

C293 1103.5 Regulation of T Cell Activation by Herpes Simplex Virus 1 Protein U. s3. S. Pan, S. Wu, Y. Liu, L. Zhang, Q. Leng, D. Chen, M. Yang, J. Wang, B. He, C. Zhang, Y. Cao. Sch. of Life Sci., Nankai Univ., China and Univ. of Illinois at Chicago.


1104. MICROBIAL ROLES IN DISEASE

Poster  
**TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D**

*Presentation time: 12:00 PM—1:30 PM*


C297 1104.2 Determining Kinetics of Reversible and Irreversible Biofilm Formation by Staphylococcus aureus and Pseudomonas aeruginosa L. Tran, R. Heuertz. Saint Louis Univ.

C298 1104.3 Penetration of Staphylococcus aureus Biofilm by the Cinnamon-Derived Compound, Cinnamaldehyde. A.P. Peach, R. Heuertz. Saint Louis Univ.

1105. MICROBIOME CHEMISTRY

Poster  
**TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D**

*Presentation time: 12:00 PM—1:30 PM*


1106. MICROBIOME RESPONSE TO INFLAMMATION

Poster  
**TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D**

*Presentation time: 12:30 PM—2:00 PM*


1107. TARGETED THERAPIES

Poster  
**TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D**

*Presentation time: 12:30 PM—2:00 PM*


C303 1107.2 Investigating the Use of Chk1 Inhibitors for Triple-Negative Breast Cancer. W. Bindeman, A. Redwood, H. Piwnica-Worms. St. Olaf Col., MN and Univ. of Texas MD Anderson Cancer Ctr.


C305 1107.4 ProKinO: A Unified Resource for Mining the Cancer Kinome. N. Kannan. Univ. of Georgia.

1108. TUMOR SUPPRESSORS/TUMOR DRIVERS

Poster

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM—1:30 PM


C312 1108.2 Ceramide Is a Key Factor That Regulates the Crosstalk between TGF-B and Sonic Hedgehog Signaling at the Basal Cilia to Control Cell Migration and Tumor Metastasis. S. Gencer, N. Oleinik, M. Dany, B. Ogretmen. Med. Univ. of South Carolina and Uskudar Univ. and Abdullah Gul Univ., Turkey.

C313 1108.3 HER2+ Breast Cancer Metastasis Mediated by E2F2 Copy Number Changes. E. Andrechek. Michigan State Univ.


C334 1109.4 Targeting of a Novel Phosphorylation Site Prevents Disease Mutation-Associated Aggregation of Glial Fibrillary Acidic Protein. P. Kabiraj, K.P. Trogden, N.T. Snider. Univ. of North Carolina at Chapel Hill.

1110. ADAPTER PROTEINS

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM—2:00 PM

C335 1110.1 A Comparison of SIKE and WIT 3 Structure and Dynamics. M. Machek, I. Minzer, H. Standen, S-H. Kim, J. Latzer, E. Bell, J. Bell. Univ. of San Diego and Univ. of Richmond.

C336 1110.2 Effects of Divalent Metal Ions on the Structure and Stability of SIKE. S-H. Kim, E. Bell, J. Bell. Univ. of San Diego and Univ. of Richmond.

C337 1110.3 Conformational Stability of SIKE and a Mimic of a Maximal Phosphorylated Form. S. Graham, S-H. Kim, E. Bell, J. Bell. Univ. of San Diego and Univ. of Richmond.

C338 1110.4 Conformational Flexibility of SIKE. H. Standen, E. Bell, J. Bell. Univ. of San Diego.

1111. KINASE CASCADES

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM—1:30 PM

C339 1111.1 The Effects of Trifluoroethanol on the Helical Structure of SIKE. S. GarciaDuBar, E. Bell, J. Bell. Univ. of Richmond and Univ. of San Diego.

1112. MAP KINASES

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM—1:30 PM


1113. PHOSPHATASES

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM—2:00 PM

C342 1113.1 PTH Regulation of CEBP-Delta Expression in MAPK Phosphatase-1 Null Osteoblasts from Male and Female Mice. N.S. Datta, N. Vengalil, S. Chukkapalli. Wayne State Univ. Sch. of Med.

C343 1113.2 Defining Carbohydrate Binding of Glucan Phosphatases via Affinity Gel Electrophoresis. K. Auger, M. Ratnaghala, C. Wilkens, B. Svensson, M. Gentry. Univ. of Kentucky and Technical Univ. of Denmark.

1114. RECEPTOR TYROSINE KINASE SIGNALING TO NUCLEUS

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM—2:00 PM


1115. SERINE/THREONINE KINASE

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM—1:30 PM


C347 1115.3 Protein Kinase C Participates in a Cell Growth Network in the Filamentous Fungus Aspergillus nidulans L. Jackson-Hayes, T. Hill, L. Myers. Rhodes Col., TN.

C348 1115.4 Phosphomimetic Constructs of Akt/PKB Do Not Mimic Activated Akt in Cells. M.T. Kunkel, A.C. Newton. UCSD.


1116. SMALL GTPASES

Poster

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

Presentation time: 12:00 PM–1:30 PM


C352 1116.2 Crystal Structures of Acetylated HRas K104 Mimic K104Q and Mutant K104A Suggest Unique Role of K104 in Interlого Communication across HRas. K. Marcus, C. Johnson, J. Sanchez, C. Mattos. Northeastern Univ.

C353 1116.3 Crystallographic Study of Wild-Type and Mg2+-Free K-Ras GTPase. J. Parker, C. Mattos. Northeastern Univ.


C355 1116.5 The Effect of Y71 Mutants on the Allosteric Switch of Ras. K. Charley, H. Guterres, C. Mattos. Fort Lewis Col., CO and Northeastern Univ.

C356 1116.6 Allosteric Role of R97 on the NRas Active Site. D.F. Reid, C. Mattos. Northeastern Univ.

1117. TYROSINE KINASES

Poster

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM


1118. SIGNALING IN BACTERIAL RECEPTOR SYSTEMS

Poster

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM


1120. SIGNALING TO THE CYTOSKELETON
Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:00 PM–1:30 PM

1124. GENETIC DETERMINANTS OF LIVER METABOLISM
Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:00 PM–1:30 PM
1125. HEPATIC ENZYME REGULATION
Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:30 PM—2:00 PM
C391 1125.1 Glutathione S-Transferase Expression in Mice (Mus musculus) Exposed In Utero to Atrazine. M. Hafner, D. Martin. Saint Mary’s Univ. of Minnesota.

1126. HEPATIC SIGNALING
Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:30 PM—2:00 PM

1127. LIPID SIGNALING IN THE LIVER
Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:00 PM—1:30 PM
C393 1127.1 Hepatic ATGL Manipulation Regulates Lipid Metabolism through Altered Autophagy. A. Sathyanarayan, M.T. Mashek, D.G. Mashek. Univ. of Minnesota, Saint Paul.

1128. LIPIDS IN HEPATIC DISEASE
Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:00 PM—1:30 PM

1129. TRANSCRIPTIONAL REGULATION OF LIVER FUNCTION
Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:30 PM—2:00 PM

1130. NITRIC OXIDE
Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:00 PM—1:30 PM
C396 1130.1 Determining Nitric Oxide-Induced Conformational Changes in Soluble Guanylate Cyclase Using Lanthanide-Based Resonance Energy Transfer. K.E. Lopez, A. Weichsel, W.R. Montfort. Univ. of Arizona.
C397 1130.2 Structural Studies of Soluble Guanylate Cyclase. K. Childers, E. Garcin. Univ. of Maryland Baltimore County.
C398 1130.3 Intact Autophagy Is Requisite for Shear-Stress-Induced Nitric Oxide Generation by Endothelial Cells via a Novel Glucose-Dependent Purinergic Signaling Pathway. L.P. Bharath, T. Ruan, P.V.A. Babu, S. Boudina, T.E. Graham, J.D. Symons. Univ. of Utah.

1131. SIGNALING CROSSTALK
Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:00 PM—1:30 PM
C402 1131.3 Effects of TCTP Over-Expression in Bacteria. N. Parmar. California State Univ. Channel Islands.

1132. LIPIDS AND ENERGY METABOLISM
Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:30 PM—2:00 PM
C403 1132.1 A Conserved Family of Proteins Facilitates Nascent Lipid Droplet Budding from the ER. V. Choudhary, N. Ohla, A. Golden, W.A. Prinz. NIDDK, NIH.
1134. REGULATION OF LIPID METABOLISM
Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 12:00 PM—1:30 PM


C420 1134.2 Inhibition of Macrophage CD36 Expression by Tamoxifen — A PPARGamma-Dependent Mechanism. M. Yu, M. Jiang, Y. Chen, Y. Duan, J. Han. Nankai Univ., China.


C422 1134.4 Multifaceted Regulation of Hepatic G0/G1 Switch Gene 2 Expression and Relevance to Lipid Metabolism. B. Heckmann, X. Zhang, A. Saarinen, J. Liu. Mayo Clinic, Scottsdale.

C423 1134.5 Mitochondria-Generated Acetyl-CoA Regulates Gene Expression in Hepatic Lipid Synthesis. M.S. Patel, S. Mahmod, B. Birkaya, T.C. Rideout. Univ. at Buffalo, SUNY.


C427 1134.9 Structural Characterization of the Lipid Storage Droplet Protein Perilipin 5 P.N. Huggins, H.M. Bailey, J.T. Tansey. Otterbein Univ.


C429 1134.11 Transcriptional Regulation of OLE1 Expression in Saccharomyces cerevisiae Is Dependent on Fatty Acid Species. C. Schriemer, V. McDonough. Hope Coll., MI.

1136. STRESS AND LIPID METABOLISM

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

Presentation time: 12:00 PM–1:30 PM

C434  1136.1 Valproate Increases Ceramide Levels and Induces the Unfolded Protein Response. S. Jadhav, S. Russo, A. Cowart, M. Greenberg. Wayne State Univ. and Med. Univ. of South Carolina.

1137. PLANT BIOCHEMISTRY

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM


1138. CALCIUM

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D

Presentation time: 12:00 PM–1:30 PM


C444  1138.2 Ellagic Acid Mediated Attenuation of Store Operated Calcium Entry Alters Cytokine Expression in Jurkat T Cells. S. Kaul, M. Murphy, J. Morrill, C. Mathias, D. Thomas, D.D. Bose. Western New England Univ. and Univ. of the Pacific.

C445  1138.3 KCNMB1-/- Mice as a Model of Pulmonary Arterial Hypertension. E. Barnes, C. Chen, S. Barnes, F. Kim, L. Lee, C. Alvira, D. Cornfield. Stanford Univ.
1143. PLANT-MICROBE INTERACTIONS

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM


C447 1143.2 Medicinal Herbs Enrich “Immune-Boosting” Bacteria. K. Kalpana, A. Kawamura. Hunter Col. of CUNY and Grad. Ctr. of CUNY.


1144. CYCLIC GMP

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM

C450 1144.1 Structural and Dynamical Basis of the Cross Talk between cAMP and cGMP Signaling Pathways. G. Melacini, B. VanSchouwen. McMaster Univ., Canada.

1145. REGULATION OF PLANT METABOLISM

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM

C451 1145.1 Defining Thermophilic Glucan Dikinases in Cyanidioschyzon merolae C.O. Brizzee, S. Husodo, M.S. Gentry. Univ. of Kentucky.

1146. SPECIALIZED PLANT METABOLISM

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM–1:30 PM

C452 1146.1 Digging into Rice Diterpenoid Biosynthesis. R. Peters. Iowa State Univ.


C454 1146.3 Controlling Product Stereochemistry in Class II Diterpene Cyclases. S. Schulte, R.J. Peters. Iowa State Univ.

1147. INOSITOL PHOSPHATES AND PHOSPHOINOSITIDES

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:30 PM–2:00 PM

C455 1147.1 Inositol Hexakisphosphate Kinase 1 Regulates Inositol Synthesis in Mammalian Cells. W. Yu, C. Ye, M. Greenberg. Wayne State Univ.


1148. VITAMIN AND AMINO ACID METABOLISM OF PLANTS

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:00 PM–1:30 PM

1149. GLOBAL NUTRITION

Poster

(Sponsored by: Global Nutrition Council)

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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


D2 II 1149.2 EarlyLifeMethylDonorSupplementation Attenuates Obesity-Risk. S.E. McKeck, T.M. Reyes. Univ. of Pennsylvania and Univ. of Cincinnati Reading Campus.


D8 I 1149.8 Weight Status and the Family Meal Environment in India. R. Jones, S. Cunningham, S. Patil. Emory Univ. and BLDE Univ., India.


D23 I 1149.23 Seasonal Variation in Urinary Aflatoxin (AFM1) of Lactating Women from Rural Households in Southern Ethiopia. T. Gebregziabher, W. Tsegaye, B.J. Stoecker. Oklahoma State Univ. and Hawassa Univ., Ethiopia.


1150. MATERNAL, PERINATAL AND PEDIATRIC: MATERNAL FACTORS RELATED TO PREGNANCY, LACTATION AND INFANT HEALTH

Poster
Maternal, Perinatal and Pediatric RIS
TUE 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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


D35 I 1150.2 Alpha-Tocopherol Stereosomer Profiles of Lactating Women Supplemented with Natural and Synthetic Vitamin E. S. Gaur, C. Sherry. Abbott Nutr. Res. Park at Univ. of Illinois and Abbott Nutr., Columbus, OH.


D38 I 1150.5 Lead and Cadmium Levels in Breast Milk and Maternal Blood and Their Relation to Inflammation Markers. Y. Zhong, T. Kennedy, Stoecker, N.L. Aubuchon-Endsley, S. Grant, L. Hubbs-Tait, D.G. Thomas. Oklahoma State Univ. and Idaho State Univ.


D43 I 1150.10 Pumping Breast Milk on Campus: University-Based Needs for Nursing Mothers. L.M. Dinour, Y. Bai. Montclair State Univ., NJ.


D48 I 1150.15 Dietary Energy Density Is Associated with Gestational Diabetes Status in U.S. Women. V. Lofaro, J.A. Vernarelli. Sch. of Nursing and Hlth. Studies, Fairfield Univ.


1151. COMMUNITY AND PUBLIC HEALTH NUTRITION: FOOD AND BUILT ENVIRONMENT

Poster

(Sponsored by: Community and Public Health Nutrition RIS)

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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


D64 II 1151.6 Cognitive Interviews with Parents to Validate a Questionnaire Assessing the Quality of Home Food Supplies. C. Delaney, J. McKinley, J.T. Martin-Biggers, C. Byrd-Bredbenner. Rutgers Univ.


1152. COMMUNITY AND PUBLIC HEALTH NUTRITION: COMMUNITY AND PUBLIC HEALTH APPROACHES TO OBESITY PREVENTION

Poster

(Sponsored by: Community and Public Health Nutrition RIS)

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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

D73 I 1152.1 High Density Lipoprotein Cholesterol to Total Cholesterol Ratio Is Associated with Index of Central Obesity in a Young Multi-ethnic Group Living in South Florida. F.G. Huffman, S. Ajabshir, T. Li, J. Exebio, G. Zarini. Florida Int'l Univ.


D78 I 1152.6 Nutrition- and Fitness-Themed Youth Summer Camp Results in Sustained Dietary Changes. G. George. San Francisco State Univ.


D81 I 1152.9 An Evaluation of a Farm-to-Institution Program: Benefits and Challenges to Supporting Local Farms. S.P. Harvey. Univ. of Kansas.


D86 I 1152.14 Health Promotion Program among Mexican Ministry of Health Employees. A.F. Guzman Ortiz, C. Chairez-Jimenez, S. Moreno Paz, A.A. Torres Serna, D. Serrano L. Mexican Ministry of Hlth. and Univ. del Valle de Mexico, Campus Chapultepec, Mexico City.

1153. NUTRITIONAL EPIDEMIOLOGY: INNOVATION AND VALIDATION OF DIETARY ASSESSMENT TOOLS AND THEIR APPLICATIONS

Poster

(Sponsored by: Community and Public Health Nutrition RIS)

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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


D102 II 1153.7 Is Self-Reported Fruit and Vegetable Consumption Associated with Biophotonic Skin Scan Score in Women 40 Years and Older? M.L. Graham, E.H. Morgan, R.A. Seguin. Cornell Univ.


D106 II 1153.11 Dietary Compensation in Randomized Nutrition Trials: Can We Identify and Adjust? C.L. Carpenter, W. Robbins, S.M. Henning. UCLA.


D110 I 1153.15 Developing Food-Specific Molecular Profiles and Biomarkers of Food and Nutrient Intake, and Dietary Exposure for Reducing Cancer Risks. N.J. Emenaker, D.N. Chester. NCI, NIH and USDA, Washington, DC.


1154. NUTRITIONAL EPIDEMIOLOGY: EPIDEMIOLOGICAL RESEARCH ADDRESSING DIET AND HEALTH OUTCOMES

Poster

(Sponsored by: Nutritional Epidemiology RIS)

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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


D105 I 1154.3 Added Sugars in the Diet Are Positively Associated with Mean Arterial Pressure and Systolic Blood Pressure in Older Adults. S.C. Chai, K. Davis, R.S. Wright, R. Pohlig, J. Saltzgiver, A. Caulfield, D. Falk. Univ. of Delaware.


D111 II 1154.9 Dietary Predictors of Exposure to Multiple Toxic Metals in School Age Children. K. Kordas, F. Peregalli, M. Vahter, P.Y. Hsiao, N. Manay, E. Queirolo. Univ. of Bristol, Catholic Univ. of Uruguay, Karolinska Inst., Indiana Univ. of Pennsylvania and Univ. of the Republic, Uruguay.


D117  II 1154.15 I’ll Take That To-Go: Eating on-the-Run in College Freshmen. S. Mayra, I. van Woerden, M. Bruening. Arizona State Univ.


D119  II 1154.17 Caffeine Exposure in Adults with Multiple Sclerosis. J. Bart-Greenough, C. Harris, J. Kloubec, C.A. Wenner, L. Mischley. Bastyr Univ.


D130  I 1154.28 Knowledge and Behaviors Surrounding a Gluten-Free Diet between Medically and Self-Diagnosed Individuals. S.A. Quinteros. Univ. of Maryland Med. Ctr.


1155. NUTRITION EDUCATION: CHILDHOOD OBESITY PREVENTION

Poster

(Sponsored by: Nutrition Education and Behavioral Science RIS)

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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


D143 I 1155.7 Parenting Practices of Arab Mothers Related to Obesogenic Dietary Behaviors in Children Ages 6 - 10 Years Old. S.H. Tami, D.B. Reed. Texas Tech Univ.


1156. AGING: NUTRIENT NEEDS AND IMPACT ON AGING AND HEALTH

Poster

(Sponsored by: Aging and Chronic Disease RIS)

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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


D151 I 1156.2 Early Shifts of Brain Metabolism by Caloric Restriction Preserve White Matter Integrity and Long-Term Memory in Aging Mice. J. Guo, V. Bakshi, A. Lin. Univ. of Kentucky.


D154 II 1156.5 Metabolism of Uniformly Labelled 13C-Eicosapentaenoic Acid and 13C-Arachidonic Acid during Healthy Aging. P. Lévêillé, R. Chouinard-Watkins, S. Cunnane, J.T. Brenna, M. Plourde. Univ. of Sherbrooke, Res. Ctr. on Aging, Sherbrooke, Laval Univ., Canada and Cornell Univ.

D156 I 1155.7 Efficacy of Furosap, a Novel *Trigonella foenum-graecum* Seed Extract, in Enhancing Healthy Testosterone Level and Improving Sperm Profile in Male Volunteers. A. Swaroop, D. Bagchi, M. Bagchi, H.G. Preuss, P. Kumar. Cephasm Res. Ctr., Piscataway, Univ. of Houston Col. of Pharm., Dr. Herbs LLC, Concord, CA, Georgetown Univ. Med. Ctr. and Chemical Resources, Haryana, India.


1157. AGING: NUTRITIONAL ASSESSMENT IN OLDER ADULTS AND POPULATIONS

Poster

(Sponsored by: Aging and Chronic Disease RIS)

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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

D159 II 1157.1 Optimizing Nutrition Care in Hospital: Understanding Current Nutrition Practices through Focus Groups and Interviews. C.V. Laur, H.H. Keller. Univ. of Waterloo, Canada.


D162 II 1157.4 Comparison of Five Malnutrition Screening Tools in a Cohort of Acutely Ill Older Adults. R.R. Deer, E. Volpi. Univ. of Texas Med. Branch.


D164 I 1157.6 Calcium Intake Trend Over Time. K. Fieselmann, S.A. Shapses. Rutgers Univ.


D166 I 1157.8 Studies of Properties of Unbound 25-OH-Vitamin D. Y. Liu, G. Handelman. Univ. of Massachusetts Lowell.

D167 II 1157.9 American Major Dietary Patterns and Age-Related Cataract. C.-J. Chiu, G. Gensler, A. Taylor. USDA at Tufts Univ. and The EMMES Corp., Rockville, MD.


1158. AGING: NUTRITION AND GASTROINTESTINAL HEALTH

Poster

(Sponsored by: Aging and Chronic Disease RIS)

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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


1159. MEDICAL NUTRITION: INTERVENTIONS FOR THE TREATMENT AND PREVENTION OF NUTRITION-RELATED DISEASES

Poster

(Sponsored by: Medical Nutrition Council)

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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


D175 II 1159.3 Nutritional Interventions in Primary Mitochondrial Disorders: Challenges and Barriers to the Use of Dietary Supplements. L. Rios Ávila, K. Camp, D. Krotoski, A.J. Kuszak, P.M. Coates. ODS, NIH and NICHD, NIH.

D177  II 1159.5 Impact of Modified Dietary Education Combined with High Energy/Protein Meals during Hemodialysis Treatment on Protein and Phosphorus Intake and Nutritional Status in Hypoalbuminemic Hemodialysis Patients. F. Dizon, L. Wang, T. Parsons, V. Gray, W. Reiboldt. California State Univ., Long Beach.

1160. ENERGY AND MACRONUTRIENT METABOLISM: CARBOHYDRATE METABOLISM
Poster

(Sponsored by: Energy & Macronutrient Metabolism RIS)
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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

D178  I 1160.1 Retinoic Acid and Insulin Synergize to Increase the Expression Levels of Glycogen Synthase in L6 Rat Skeletal Muscle Cells. M. Goff, G. Chen. Univ. of Tennessee, Knoxville.


D184  II 1160.7 California Dates Have a Low Glycemic Index as Determined by Both In Vitro and In Vivo Methods. C.J. Rainey. Date Res. Inst., San Juan Capistrano.


D186  I 1160.9 Postprandial Glycemic and Insulinemic Responses to Common Breakfast Beverages Consumed with a Standard Meal in Overweight and Obese Individuals. J. Li, E. Janle, W.W. Campbell. Purdue Univ.


D188  II 1160.11 In Vitro Short-Chain Fatty Acid Production of Rice Bran Components by Human Gut Microbiota. T. Pham, B.J. Savary, M-S. Chen, S-O. Lee. Univ. of Arkansas, Arkansas State Univ. and USDA, Stuttgart, AR.


1161. ENERGY AND MACRONUTRIENT METABOLISM: DIET AND/OR EXERCISE REGULATION OF FOOD INTAKE
Poster

(Sponsored by: Energy & Macronutrient Metabolism RIS)
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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


D198  I 1161.6 Protein Level and Source in a Meal Influences Voluntary Intake of a Subsequent Meal. C. Murray, M. Fecych, E. Markus, D. Oberlin, V. Porcelli, J.L. Beverly. Univ. of North Carolina at Greensboro.
1162. ENERGY AND MACRONUTRIENT METABOLISM: ENERGY METABOLISM AND AGING

Poster

(Sponsored by: Energy & Macronutrient Metabolism RIS)
(Cosponsored by: Aging and Chronic Disease RIS)

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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

D201 I 1162.1 Does Dietary Restriction Ameliorate the Metabolic and Lifespan Consequences of Circadian Disruption? B. Varamini. Biola Univ., CA.


1163. ENERGY AND MACRONUTRIENT METABOLISM: DIETARY FATTY ACIDS AND HEALTH

Poster

(Sponsored by: Energy & Macronutrient Metabolism RIS)

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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


D207 I 1163.5 The Role of Short-Chain Fatty Acid Receptor-Mediated Macrophages in Adipose Tissue Inflammation. S. Hasegawa, M. Kasubuchi, J. Miyamoto, I. Kimura. Tokyo Univ. of Agr. and Technol. and Hiroshima Univ.


D209 I 1163.7 Effects of Frying in Various Cooking Oils on Fatty Acid Content of Farmed Rainbow Trout (Oncorhynchus mykiss). K. Flskerude, M. Picklo, L. Johnson, S. Raatz. Univ. of Minnesota, St. Paul and USDA, Grand Forks.


D211 I 1163.9 Serum Lipids Profile of Growing Rats Feed with Different Sources of Lipids. P. Perris, F. Inés, M.C. Mambrin, N. Slobodianik, M.S. Feliu. Fac. of Pharm. and Biochem., Univ. of Buenos Aires.


D217 I 1163.15 The Influence of Dietary Fat and Vitamin D on Adiposity and Vitamin D Metabolism in Older Female Mice. Y. Wang, J.W. Miller, S.A. Shapses. Rutgers Univ.


NUTRITION TUESDAY


D225 II 1163.23 Dietary α-Linolenic Acid Is Sufficiently Converted to Docosahexaenoic Acid (DHA) to Increase Bioactive Lipids Derived from DHA. S. Leng, H.M. Aukema. Univ. of Manitoba and Canadian Ctr. for Agri-Food Res. in Hlth. and Med., Winnipeg.


1164. ENERGY AND MACRONUTRIENT METABOLISM: PROTEIN INTAKE AND HEALTH IMPLICATIONS

Poster
(Sponsored by: Energy & Macronutrient Metabolism RIS)

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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


D232 II 1164.6 Assessment of Attitudes, Preferences and Knowledge Regarding Dietary Protein Consumption and Health. B.L. Neumann, J.J. Baum. Univ. of Arkansas.


D234 II 1164.8 Effects of Low Calorie High-Protein, and High-Carbohydrate Breakfasts on Metabolic and Glycemic Responses and Food Perceptions in Overweight Women. M. Rao, M. Avalos, R. Wildman, N. DiMarco. Texas Woman’s Univ. and Dymatize Enterprise LLC, Dallas.

D235 II 1164.9 Effect of Higher Dietary Protein and Fiber Intake at Breakfast on Postprandial Insulin and Glucose Responses in Overweight Adults. A. Amankwaah, R.D. Sayer, A.J. Wright, N. Chen, M.A. McCrory, W.W. Campbell. Purdue Univ. and Georgia State Univ.


D237 II 1164.11 Protein Quantity, Quality, and Distribution Have No Effect on Daily Appetite Control, Satiety, or Free Living, Ad Libitum Food Intake during Energy Balance in Healthy, Overweight Women. R. Shafer. Univ. of Missouri-Columbia.

1165. OBESITY: DIET, DEVICES, MEDICATIONS AND SURGERY

Poster
(Sponsored by: Obesity RIS)

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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


D241 I 1165.4 Correlation between Ultrasonographic Measures of the Abdominal Adiposity and Indicators of Obesity in Normal and Overweight/Obesity Children. C.A. Nogueira-de-Almeida, A.C.G.S. Benedeti, J. Garcia, S.H. Caixe. Univ. of Ribeirão Preto and UNAERP/Fatesa, Ribeirão Preto, Brazil.
1166. OBESITY: GUT MICROBIOME AND OBESITY

Poster

(Sponsored by: Obesity RIS)

TUE. 9:00 AM — SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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


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<tr>
<th>Session</th>
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<th>Authors</th>
<th>Institution(s)</th>
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<tbody>
<tr>
<td>D262</td>
<td>II 1167.9</td>
<td>Excess Dietary Iron Modulates Intestinal Tumorigenesis. L. Glosser, J. Swain.</td>
<td>Case Western Reserve Univ.</td>
</tr>
<tr>
<td>D263</td>
<td>I 1167.10</td>
<td>Restricted Feeding of a High-Fat Diet Reduces Spontaneous Metastases of Lewis Lung Carcinoma in C57BL/6 Mice. L. Yan, S. Sundaram.</td>
<td>USDA, Grand Forks.</td>
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### 1168. DIET AND CANCER: CLINICAL AND HUMAN STUDIES

**Poster**

*(Sponsored by: Diet and Cancer RIS)*

**TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D**

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

<table>
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<th>Session</th>
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<th>Authors</th>
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1169. NUTRIENT-GENE INTERACTION: CHRONIC DISEASE, OBESITY AND INFLAMMATION

Poster

Nutrient-Gene Interaction RIS

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


D286 I 1169.3 Hypoxia and Oncostatin M Synergistically Up-Regulate HIF-1α in 3T3-L1 Adipocytes by Different Mechanisms. D.M. DeSilva, R.G. Hopkins, R.F. Morrison. Univ. of North Carolina at Greensboro.

D287 II 1169.4 Modification of the Association between the Polymorphisms of Adipokine Genes and Serum Adipokine Levels by Vitamin D Status in African Americans: The Jackson Heart Study. R.J. Khan, P. Riestra, S. Gebreab, J.J. Wilson, R. Xu, A. Gaye, S. Davis.


D290 II 1169.7 BDNF rs6265 Polymorphisms Are Associated with Lower Risk of Type 2 Diabetes: Gene-Nutrient Interactions in the Korean Genome and Epidemiology Study. S. Park, J.W. Daily. Hoseo Univ., South Korea and Daily Mfg. Inc., Rockwell, NC.

D291 I 1169.8 Maternal Low Protein Diet Leads to Placental Angiogenic Compensation via Dysregulated M1/M2 Macrophages and TNFα Expression in Sprague-Dawley Rats. E.E. Vomhof-Dekrey, J.N. Roemmich, K.J. Claycombe. USDA, Grand Forks.


D294 I 1169.11 Inhibitory Effects of Silibinin on Inflammation via Attenuation of HO-1 in Murine Macrophage Cell. J. Song. CHA Univ., South Korea.
1171. VITMIN: B VITAMINS AND ONE-CARBON METABOLISM

Poster

(Sponsored by: Vitamins and Minerals RIS)

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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


D310 II 1171.7 The Effect of Food Restriction and Betaine Supplementation on Methionine Metabolism and Plasma Lipid Profile in Ethanol-Treated Rats. H. Kim, H. Min. Hannam Univ., South Korea.


D312 II 1171.9 Despite the Introduction of Mandatory Folic Acid Fortification, Australian Women of Childbearing Age May Not Obtain the Estimated Average Requirements for Folate. D. Borradale, M. Kimlin. Queensland Univ. of Technol. and Univ. of the Sunshine Coast, Australia.


1172. VITMIN: MICRONUTRIENT INTERVENTIONS

Poster

(Sponsored by: Vitamins and Minerals RIS)

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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


D322 II 1172.6 Spina Bifida Phenotypes and Sex-Specific Prevalence among Offspring of Folic Acid Users. R.J. Berry, C. Patimeteeporn, C. Moore. Ctrs. for Dis. Control and Prevent., Chamblee, GA.


1174. DBC: ANTI-INFLAMMATORY DIETARY BIOACTIVE COMPONENTS

Poster

(Sponsored by: Dietary Bioactive Components RIS)

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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

D342 II 1174.1 High Glucose Reduces Resveratrol-Dependent Disruption of CX3CL1/CX3CR1 Signaling in Human Placental Circulation. D. Szukiewicz, M. Pyzlań, G. Szewczyk, J. Kochanowski. Med. Univ. of Warsaw.


D345  II  1174.4  Effect of Thymol on Oxidative Stress and Inflammation-Related Gene Expression in High Fat Diet-Induced Hyperlipidemic Rabbits.  Y.-M. Yu, T.-Y. Chao, W.-C. Chang, M.J. Chang, M.-F. Lee.  Chang Jung Christian Univ., Taiwan.  


D347  II  1174.6  Delta and Gamma Tocotrienol Attenuate NLRP3 Inflammasome Activation in J774 Macrophages via NFXB-Dependent Priming Inhibition.  T. Buckner, Y. Kim, S. Chung, M. Engel.  Univ. of Nebraska-Lincoln.  


D351  II  1174.10  Effects of Dietary Strawberries on Inflammatory Biomarkers in Participants with Abdominal Obesity and Dyslipidemia.  A. Basu, M. Foster, N. Betts, A. Nguyen, D. Fu, T. Lyons.  Oklahoma State Univ. and Queen's Univ. of Belfast.  


D355  II  1174.14  The Effects of Dietary Cocoa Powder on Inflammatory Markers and Catabolic Activity in Participants with Type 2 Diabetes following a Fast Food Style Meal Challenge.  M. Foster, N. Betts, D. Fu, T. Lyons, A. Basu.  Oklahoma State Univ. and Queen's Univ. of Belfast.  

D356  II  1174.15  Glucose-Lysine Maillard Reaction Products Fortified with Caffeic Acid Potentiate Anti-oxidant and Anti-inflammatory Properties in Macrophages.  E.J. Kwak, S. Chung.  Yeungnam Univ., South Korea and Univ. of Nebraska-Lincoln.  


D362  II  1174.21  In Vitro and In Vivo Antioxidant Potential of Pistachios (Pistacia vera L.) G. Mandalari, I. Paterniti, E. Esposito, A. Carughin, S. Cuzzocrea.  Univ. of Messina and American Pistachio Growers, Fresno, CA.  


1175.  DBC: CARDIOVASCULAR EFFECTS OF DIETARY BIOACTIVE COMPONENTS  

Poster  

(Sponsored by: Dietary Bioactive Components RIS)  

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D  

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


II  1175.3


D374  I  1175.8 Butyrate Modulates Cav-1 and Its Binding Partner AhR, Leading to Differential Cyp1a1 and Cyp1b1 Gene Expression in Vascular Endothelial Cells. J.B. Hoffman, M.C. Petriello, B. Hennig. Univ. of Kentucky.

D375  II  1175.9 Effects of Moderate Ethanol Consumption on Lipid Metabolism and Inflammation through Regulation of Gene Expression in Rats. M. Justice, J. Penprase, P. Cintora, D. Erwin, O. Medrano, S.M. Brassard, M.Y. Hong, Sch. of Exer. and Nutr. Sci., San Diego State Univ.


1176. DBC: DIETARY BIOACTIVE COMPONENTS OF MEDICINAL, FUNCTIONAL AND WHOLE FOODS (INCLUDING PROBIOTICS AND FERMENTED FOODS)

Poster

(Sponsored by: Dietary Bioactive Components RIS)

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

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

D381  I  1176.1 New Strategy for Profiling Flavanoids by an Automated Data Processing Tool: FlavonQ. J. Harnly, M. Zhang, J. Sun, P. Chen. USDA, Beltsville, MD.


D383  I  1176.3 Changes in the Phytochemicals Composition during Bread and Pancake Preparations from Whole and Refined Wheat Flours. D.L. Luthria, Y. Lu, E.P. Fuerst, C.F. Morris. USDA, Beltsville, MD and Washington State Univ. and USDA, Pullman, WA.


D386  I  1176.6 Comparison of Estimated and Measured Isoflavone Content of Foods Commonly Consumed by Adventists in the United States and Canada. C. Heskey, R. Sirirat, A. Franke, K. Jaceldo-Sieg. Loma Linda Univ. and Univ. of Hawaii at Manoa.


D388  I  1176.8 Calculation of Retention Factors for Flavanoids in Cooked Broccoli. X. Wu, Y. Zhao, S. Bhagwat, D.B. Haytowitz, J.M. Harnly, P.R. Pehrsson, P. Chen. USDA, Beltsville, MD.


D394  I  1176.14  Lactobacillus rhamnosus and Flavonol-Enriched Cocoa Powder Altered the Immune Response to Infection with the Parasitic Nematode Ascaris suum in a Pig Model. S. Jang, S. Lakshman, A. Molokin, J.F. Urban; Jr., C.D. Davis, G. Solano-Aguilar. USDA, Beltsville, MD and ODS, NIH.


D398  I  1176.18  Estrogenic and Antiestrogenic Activities of Commercial Dietary Supplements Containing Herbal Ingredients and Isoflavones. P. Basu, S. Sunny, C. Maier. Texas Woman's Univ.


D403  I  1176.23  Effect of Konjac Noodles Intervention in Patients with Type 2 Diabetes. S-C. Li. Taipei Med. Univ., Taiwan.


D406  I  1176.26  Consumption of Selected Cruciferous Vegetables and Soy Phytochemical Dietary Supplements Can Alter Gut Microbiome Composition. H. Huang, G.M. Roman Arocho, C. Davis, L. Yu, T.T.Y. Wang. USDA, Beltsville, MD, ODS, NIH, Univ. of Maryland College Park and Univ. of Puerto Rico, San Juan.

D407  II  1176.27  Synergistic Impact of d-Δ5-Tocotrienol and Geranylgeraniol on the Growth and HMG CoA Reductase of Human DU145 Prostate Carcinoma Cells. H. Yeganehjoo, R. DeBose-Boyd, B. McFarlin, H. Mo. Texas Woman's Univ., Univ. of Texas Southwestern Med. Ctr., Univ. of North Texas and Georgia State Univ.

D408  I  1176.28  Characterization of the Ingredients in Fish Oils and Herbal Dietary Supplements Analyzed by GC-MS and HPLC-ELSD. S. Ikediobi, B.J. Nikolau. Iowa State Univ.


1177. VASCULAR PATHOBIOLOGY AND HEMOSTASIS

**Poster**

TUE, 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

**Presentation time:** 11:45 AM—1:45 PM


**A198** 1177.6 Sialylation and PECAM-1-Dependent Ligand Binding. A. Parambath, V. Abraham, S.W. Hyun, A. Liu, S.E. Goldblum, H. DeLisser. Univ. of Pennsylvania and Univ. of Maryland Baltimore.


**A201** 1177.9 Characterization of Beta Tubulin Expression during Human Foam Cell Formation and in Atherosclerotic Lesions of the Aorta. A. De Los Santos, A. Torres, V. Contreras-Shannon. St. Mary’s Univ., Helotes and San Antonio, TX.

**A202** 1177.10 Improving Wound Healing through the Use of Tetrazine-Modified Alginate. E.J. De Leon-Peralta, Y. Brudno, B.J. Kwee, D.J. Mooney. Univ. of Puerto Rico-Mayagüez Campus and Harvard Univ.


**A205** 1177.13 PERK Branch of the ER Stress Regulates FoxO to Mediate Homocysteine-Induced Bkca Channel Dysfunction. W-T. Sun, X-C. Wang, S-K. Mak, C-M. Yu, Q. Yang. The Chinese Univ. of Hong Kong.


**A207** 1177.15 Genome-Wide Association Analysis Identified Candidate Variants Associated with Responsiveness to a Blood Pressure Reduction Intervention in Rural North Carolina. K.C. Lenhart, K. Robasky, W. Jones, J. Halladay, A. Ammerman, C. Patterson, J.C. Schisler. Univ. of North Carolina at Chapel Hill and Quintiles, Durham, NC.


**A211** 1177.19 Dietary Nitrate Suppresses Platelet Reactivity in Apolipoprotein E Knockout Mice. F. Filomena, R. Khambata, A. Ahluwalia. Barts & The London Sch. of Med. & Dent. and Queen Mary Univ. of London.


**A213** 1177.21 STIM1 Deficiency in VSMC Promotes Vascular Calcification in Atherosclerosis. Y. Yang, Y. Sun, Y. Chen. Vanderbilt Univ., China.

1178. CARDIAC PATHOBIOLOGY
Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 11:45 AM–1:45 PM
A215 1178.1 Inhibiting Cardiac Fibrosis in Myocardial Infarction by CXCL10 Agonist Peptide. L. Espinoza, J. Jaynes, R. Bodnar, M.S. Willis, C.C. Yates. St. Mary’s Univ., TX, Tuskegee Univ., Univ. of Pittsburgh Sch. of Med., Univ. of North Carolina at Chapel Hill Sch. of Med. and Univ. of Pittsburgh Sch. of Nursing.
A216 1178.2 Inositol Trisphosphate Receptor Contribution to Ventricular Cardiac Fibroblast Function in Healthy and Hypertrophied Mouse Hearts. S. Currie, T.P. Martin, H. Salleh, C. McCluskey, T.J. Bushell. Univ. of Strathclyde, U.K.
A217 1178.3 Effects of Physical Exercise and Thyroid Hormone on Myosin Heavy Chain Expression in Doxorubicin-Induced Cardiotoxicity in Rats. E.C. Campos, F.R. Souza, A.C.S. Freitas, S.G. Ramos, E.S. Resende. Fac. of Phys. Educ. and Fac. of Med., Fed. Univ. of Uberlândia and Fac. of Med. of Ribeirão Preto, Univ. of São Paulo, Brazil.
A219 1178.5 Phospholamban Is Localized in Autophagosomes in Dilated Cardiomyopathy Mouse Model, TgPLN<sup>−/−</sup> Mice. S. Yokoe, D.H. MacLennan, M. Asahi. Osaka Med. Col. and Univ. of Tokyo.
A220 1178.6 NRG1-ERBB4-PSEN1 Dysfunction in Human Myocarditis and Dilated Cardiomyopathy. P.J. Hanson, E.L. Jang, H. Rai, A. Chang, A. Mo, B.M. McManus, M.A. Seidman. Univ. of British Columbia and Providence Hlth. Care, Vancouver.
A221 1178.7 Cobalt Cardiotoxicity – Effects on Contractile and Non-contractile Cells of the Heart. S. Laovitthayangoon, R. Tate, S. Currie, M.H. Grant. Univ. of Strathclyde, U.K.
A222 1178.8 Effect of Aging and High Fat Diet on Mitochondrial and Cardiac Function in Mice with Altered Mitochondrial DNA Function. O.M. Gorodnya, J.M. McLendon, D.F. Alvarez, L.I. Rachek, M.N. Gillespie, M.V. Ruchko. Univ. of South Alabama Col. of Med. and Univ. of Iowa Carver Col. of Med.
A225 1178.11 Genetic Modifiers of Cardiac Development 22q11DS Mouse Models. K.C. Arroyo. Univ. of Puerto Rico in Ponce.
A228 1178.14 The Impact of Surgical Treatment and Radiation Therapy on the Survival Rate of Patients with Primary Cardiac Neoplasms—an Analysis of Cases from the Surveillance, Epidemiology, and End-Results Registry. D. Lodin, O. Guerra, S. Zarei. San Juan Bautista Sch. of Med., PR, Rollins Sch. of Publ. Hlth., Emory Univ. and Harvard Sch. of Med.

1179. NEUROPATHOLOGY
Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Presentation time: 11:45 AM–1:45 PM
A230 1179.1 Cortical Neurons Exposed to HIV-1 Nef Exhibit Increased MAP2 Levels. V. Vargas-Zapata, N. Martinez-Orengo, R.J. Noel; Jr. Univ. of Puerto Rico at Ponce and Ponce Hlth. Sci. Univ.
A231 1179.2 Inflammation as a Contributor to ingestive and Vocal Dysfunction in a PINK1 Knockout Rat Model of Parkinson Disease. K.M. Yang, H.N. Mulholland, M.P. Kurup, M.R. Ciucci. Univ. of Wisconsin-Madison.
A235 1179.6 Ryanodine Receptor-Dependent Modulation of Experimental Autoimmune Encephalomyelitis in Mice. N.C. Osipchuk, A. Soulka, L. Cruz-Orengo, P.D. Allen, A.F. Fomina. Univ. of California, Davis.
A238 1179.9 Mitochondrial Dysfunction in iPSC-Derived Neurons in Subjects with Chronic Mountain Sickness. H. Zhao, G. Perkins, D. Callacondo, O. Appenzeller, G. Haddad. UCSD, Lima, Peru and Univ. of New Mexico.
1180. GENE EXPRESSION

Poster

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 11:45 AM–1:45 PM


A245 1180.2 Expression Analysis of Arpin, a Novel Arp2/3 Inhibitor, in Endothelial and Epithelial Cells under Basal and Inflammatory Conditions. S.D. Chanez Paredes, J. Garcia Cordero, H. Vargas Robles, L. Cedillo Barron, M. Schnoor. CINVESTAV, Mexico City.


A247 1180.4 Regulome-Seq: Searching for Single Nucleotide Variants Associated with Disease beyond Protein-Coding Regions. M. Pinsch Abuin, J. Maties, B. del Olmo, C. Allegre, R. Brugada, I. Garcia-Bassets, S. Pagans. Univ. of Girona, Spain, UCSD.


1181. GENETIC DISEASES

Poster

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 11:45 AM–1:45 PM


A255 1182.5 Novel Gene Signature Classification Model for Predicting Severity of Skin Fibrosis. C.C. Yates, J.D. Jones, C. Feghali-Bostwick, Y. Conley. Univ. of Pittsburgh, Troy Univ. and Med. Univ. of South Carolina.
1183. STIMULANTS – SELF ADMINISTRATION

**Poster**

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


A3  **1183.3** Characterizing the Role of D2–Like Dopamine Receptors in Cocaine Self-Administration in Rats. R.E. Verduzquez, H. Wetzel, A. Norman. Univ. of Dayton and Univ. of Cincinnati.

A4  **1183.4** Behavioral Economic Analysis of the Effects of AHN 1-055 and JHW 007, Atypical Dopamine Uptake Inhibitors, on Cocaine Self Administration. C. Zanettini, A.H. Newman, D. Wilkinson, J.L. Katz. NIDA, NIH, Baltimore.


A8  **1183.8** The Protein Kinase Cβ Inhibitor, Enzastaurin, Decreases Amphetamine-Mediated Behaviors in Rats. R. Altshuler, M. Gnegy, E. Jutkiewicz. Univ. of Michigan.

1184. STIMULANTS – BEHAVIOR

**Poster**

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

A9  **1184.1** Cocaine-Induced Alterations in Blood Lipid Profiles for the Study of Addictive Behaviors. S. Pati, N.E. Scholpa, J.J. Wagner, B.S. Cummings. Univ. of Georgia.

A10 **1184.2** Antagonism of the Rate-Decreasing Effects of Abused Psychostimulants and Bath Salt Component Mephedrone in Rats. I.A. Saber, E.A. Walker. Temple Univ.

A11 **1184.3** Cocaine-Like Discriminative Stimulus Effects of Amphetamine, Cathinone, and Alpha-Pyrolidinonovlaverophene Analogs in Male Rhesus Monkeys. D. Smith, S. Negus, B. Blough, M. Banks. Virginia Commonwealth Univ. and RTI Intl., Research Triangle Park, NC.


1185. DIETARY INFLUENCES ON DRUG ACTIVITY

**Poster**

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

A18 **1185.1** Insulin Enhancement of Dopamine Reuptake in the Nucleus Accumbens Is Blocked by Consumption of a High Fat Diet in C57BL/6 Mice. S. Fordahl, S. Jones. Wake Forest Sch. of Med.

A19 **1185.2** Alternating Access to a Highly Palatable Diet Alters Amphetamine Sensitivity and Self-Administration. C.F. Moore, V. Sabino, P. Cotton. Boston Univ.


A21 **1185.4** Dietary Supplementation with Fish Oil Prevents High Fat Diet-Induced Enhancement of Sensitivity to the Locomotor Stimulating Effects of Cocaine. C. Labay, K. Serafine, C. France. Univ. of Texas Hlth. Sci. Ctr.at San Antonio.

A22 **1185.5** Effects of Intermittent or Ad Libitum Consumption of High-Fat Diet on the Reinforcing Effects of Cocaine in Male Rats. G.T. Collins, C.P. France. Univ. of Texas Hlth. Sci. Ctr. at San Antonio and South Texas Veterans Hlth. Care Syst.
1186. STIMULANTS – MECHANISM

**Poster**

TUE. 9:00 AM — SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

**Neuropharmacology**

*Presentation time: 12:30 PM–2:30 PM*

**A23 1186.1** Role of GLT-1 and xCT in Repeated High-Dose Administration of Methamphetamine and Ethanol: New Mechanism of Methamphetamine-Induced Neurotoxicity and Hyperthermia. Y.S. Althobaiti, F. Alshehri, A. Almaliki, Y. Sari. Univ. of Toledo Col. of Pharm. and Pharmaceut. Sci.

**A24 1186.2** Chronic Cocaine Exposure Alters D1 Medium Spiny Neuron Activity to Promote Relapse. E.S. Calipari, R.C. Bagot, I. Purushothaman, S. Pirpinias, T.J. Davidson, K. Deisseroth, E.J. Nestler. Icahn Sch. of Med. at Mount Sinai and Stanford Univ.

**A25 1186.3** Cocaine-Induced Chromatin Modifications Are Associated with Increased Gene Expression and DNA-DNA Interactions of AUT. S2 O. Engmann, B. Labonte, A. Mitchell, E. Calipari, J. Rabkin, Y. Hurd, G. Turecki, S. Akbarian, E.J. Nestler. Icahn Sch. of Med. at Mount Sinai and McGill Univ.

**A26 1186.4** Atypical Dopamine Transporter Inhibitors R-Modafinil and JHW007 Differentially Alter D2 Autoreceptor Currents and Firing Rate in Midbrain Dopamine Neurons. A.J. Avelar, A.H. Newman, M.J. Beckstead. Univ. of Texas Hlth. Sci. Ctr. at San Antonio and NIDA, NIH, Baltimore.


**A30 1186.8** Analogs of the Designer Drug, 3,4-Methylenedioxymethcathinone (Methyline), Differentially Affect Monoamine Transporters in Rat Brain. M.H. Baumann, M.O. Bukhari, K.R. Lehner, J.S. Partilla. NIDA, NIH, Baltimore.


1187. NICOTINICS

**Poster**

TUE. 9:00 AM — SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

**Neuropharmacology**

*Presentation time: 12:30 PM–2:30 PM*

**A32 1187.1** The Effects of Chronic Cigarette Smoke Extract Exposure on Somatic Withdrawal. D. Reynaga, F. Leslie, J. Belluzzi. Univ. of California, Irvine.

**A33 1187.2** Acute Tolerance to the Discriminative Stimulus Effects of Nicotine in Monkeys. M.J. Moerke, L. McMahon. Univ. of Texas Hlth. Sci. Ctr. at San Antonio.

**A34 1187.3** Myths and Misconceptions Surrounding Chantix Use among Health Care Professionals. J. Amirhamzeh, J. Bobango, T.T. Talley. Idaho State Univ. Col. of Pharm. and Idaho State Univ.


**A36 1187.5** Differential Antagonism and Nicotine-Induced Tolerance/Cross-Tolerance among nAChR Agonists in Mice. F.B. de Moura, L.R. McMahon. Univ. of Texas Hlth. Sci. Ctr. at San Antonio.


**A38 1187.7** Comparing Cigarette Smoke Extract- and Nicotine-Seeking Behavior after Exposure to Stress in Adolescent Rats. C. Gellner. Univ. of California, Irvine.

**A39 1187.8** Plant Alkaloid Desensitization of Fetal Muscle-Type Nicotinic Acetylcholine Receptors. B. Green, S. Lee, K. Welch, D. Cook. USDA, Logan, UT.

**A40 1187.9** A Novel Structural Landscape for Ligand Binding to the α7 Nicotinic Acetylcholine Receptor. G.A. Camacho-Bustamante, K. Kaczanowska, M. Harel, J. Conrero-Brao, P. Taylor. UCSD and Univ. Autonomous de Baja California, Tijuana.


1189. NUCLEAR RECEPTORS AND OTHER INTRACELLULAR TARGETS

Poster

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Molecular Pharmacology

Presentation time: 12:30 PM–2:30 PM

A49 1189.1 The Extent of Vascular Remodeling Is Dependent on the Balance between ERα and GPER(GPR30)
R. Groce, Y. Ding, Y. Hussain, J. Chorzacyczewski, G. Pickering, R.D. Feldman. Western Univ. and Memorial Univ. of Newfoundland, Canada.

A50 1189.2 Activation of Human Aryl Hydrocarbon Receptor in Promoting Hepatocellular Carcinoma. P. Lu, W. Xie. Univ. of Pittsburgh.

A51 1189.3 A Sumo-Acetyl Switch in PXR Biology. W. Cui, M. Sun, X. Shen, J. Staudingter. Univ. of Kansas and UCSD.

A53 1189.5 Tankyrases Are Druggable Targets for the Treatment of Metabolic Disorders. O. Obianmon, W. Yang, F. Xue, Y. Shu. Univ. of Maryland, Baltimore.

A54 1189.6 Identification of LMAN1 as a Druggable Cellular Target for Reduced Secretion of Matrix Metalloproteinase-9 T. Duellman, J. Burnett, J. Yang. Univ. of Wisconsin-Madison.


A56 1189.8 The Effect of PHLPP2 on Cardiac Hypertrophy. N. Purcell, S-T. Yeh, W.J. Koch, C.M. Zambrano. UCSD and Temple Univ.

1190. HETEROTrIMERIC G PROTEINS AND EFFECTOR ENZYMES

Poster

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Molecular Pharmacology

Presentation time: 12:30 PM–2:30 PM


A62 1190.3 Characterization of a Peptide Modulator of Gβγ Signaling Derived from Adenyl Cyclase Type 2 M. Soto Velasquez, C.R. Surve, M. Perez, L.L. Parker, A.V. Smrcka, V.J. Watts. Purdue Univ., Sch. of Med. and Dent., Univ. of Rochester Med. Ctr. and Univ. of Minnesota, Minneapolis.

A63 1190.4 Structure-Dependent β, Adrenergic Receptor Agonsists Induce Mitochondrial Biogenesis through the Gβγ-Akt-eNOS-cGMP Pathway. R. Cameron, C. Beeson, R. Schnellmann. Med. Univ. of South Carolina.


A66 1190.7 PI4P Hydrolysis Is a Major Mechanism for GPCR-Dependent DAG Generation and PKC/PKD Activation. R.H. Gil de Rubio, S. Malik, A. Smrcka. Univ. of Rochester.


A68 1190.9 Evaluating the Specificity and Potency of Activators and Inhibitors of the cAMP Sensors PKA, Epac2/ Rapgef4, and NCS/Rapgef2 Using Cell-Based Assays for Activation of CREB, p38 MAPK, and ERK. A.C. Emery, M.V. Eiden, L.E. Eiden. NIMH, NIH.

1192. NATURAL PRODUCTS – PHARMACOLOGY AND TOXICOLOGY II

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Drug Discovery and Development
Presentation time: 12:30 PM—2:30 PM


A90 1192.9 Antioxidant and Chemopreventive Effect of Azadirachta indica on Lead Acetate Induced Hepatotoxicity in Rats. T. Omobowale, A. Oyagbemi, T.E. Adeyeoluwa, O. Akinboye, A. Adedo. Univ. of Ibadan, Nigeria.
### 1193. NATURAL PRODUCTS IN CANCER

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

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<td>A91</td>
<td>1193.1 Isolation of an Anti-tumor Compound from the Leaves of <em>Annona muricata</em> and Pharmacological Characterization in PC-3 Cells.</td>
<td>J. Hall, S. Bedregal, C. Kelley, A. Pino-Figueroa. MCPHIS Univ., Boston and Catholic Univ. of Santa Maria, Peru.</td>
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<tr>
<td>A94</td>
<td>1193.4 Natural Compounds Ursolic Acid and Isoliquiritigenin Target GRP78 to Enhance Human Gastric Cancer Cell Chemosensitivity by 5-Fluorouracil.</td>
<td>M. Lin, D. Wu, Y. Huang. Kaohsiung Med. Univ. and Hosp., Taiwan.</td>
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<td>A100</td>
<td>1193.10 Directly Binding to HNE and Up-Regulating α1-AT Mediate the Anti-migration Effects of EGGC on Neutrophil Elastase-Induced Migration in A549 Cells.</td>
<td>X. Li, Y. Xiaokaiti. Peking Univ.</td>
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<td>A102</td>
<td>1193.12 Restoration of Radiosensitivity by Downregulation of Ribosomal Protein.</td>
<td>S.S. Hussain, N. Papanikolaou, D.C. Chan, R. Ghosh, A.P. Kumar. Univ. of Texas Hlth. Sci. Ctr. at San Antonio, Univ. of Colorado Denver, Aurora and South Texas Veterans Hlth. Care Syst.</td>
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### 1194. NOVEL THERAPEUTIC TARGETS IN CANCER

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

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<tr>
<td>A103</td>
<td>1194.1 Biochemical and Cellular Monitoring of the Activity of the Ecto-5'-Nucleotidase (CD73), a Key Cancer Modulator Using HTS-Formatted Bioluminescent Technology.</td>
<td>S. Goueli. Promega Corp. and Univ. of Wisconsin Med. Sch.</td>
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<td>A104</td>
<td>1194.2 Investigation of the Lipoxigenase Pathway in Cisplatin-Induced Nephrotoxicity.</td>
<td>O.A. Al-khamees. Col. of Med., Al-Imam Muhammad Ibn Saud Islamic Univ., Saudi Arabia.</td>
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<td>A105</td>
<td>1194.3 The Phospholipid Transacylase Tatfazzin Is a Drug Target for Overcoming Chemoresistance in Pancreatic Cancer.</td>
<td>A. Badejo, J. McCreary, A. Malhotra. Pacific Univ. Sch. of Pharm. and Pacific Univ. Col. of Arts and Sci.</td>
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<td>A108</td>
<td>1194.6 Effects of LRH-1 Antagonism on Pancreatic Adenocarcinoma Cells.</td>
<td>D. Kothari, A. Rondon-Ortiz, A. Mendigure, A. Pino-Figueroa. MCPHIS Univ., Boston and Catholic Univ. of Santa Maria, Peru.</td>
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<tr>
<td>A110</td>
<td>1194.8 Effect of Acidic Tumor Microenvironment on Motility and Stemness of Non-small Cell Lung Cancer Cells.</td>
<td>S. Goueli. Promega Corp. and Univ. of Wisconsin Med. Sch.</td>
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<td>A111</td>
<td>1194.9 Transglutaminase 2 Plays a Critical, but Context-Specific Role in Glioblastoma Proliferation.</td>
<td>A. Montagudo, S. Gundemir, A. Akbar, J. Keillor, G. Johnson. Univ. of Rochester and Univ. of Ottawa.</td>
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### 1195. INFLAMMATION, FIBROSIS AND TISSUE INJURY

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

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A117 1195.5 Novel Omega-3 Fatty Acid Epoxygenase Metabolite Reduces Kidney Fibrosis. A. Sharma, M.A.H. Khan, K.S.S. Lee, B.D. Hammock, J.D. Imig. Med. Col. of Wisconsin and Univ. of California, Davis.

A118 1195.6 Preclinical In Vivo Safety Evaluation of Concanavalin A-Based Nanomicrobicide in Female Mouse Reproductive Tract. M.J.M. Ezoulin, F. Coulibaly, D. Dim. Univ. of Missouri-Kansas City.


A120 1195.8 Pharmacological Inhibition of Soluble Epoxide Hydrolase Ameliorates Experimental Acute Pancreatitis in Mice. A. Bettaieb, S. Chahed, S. Bachaalany, S. Griffey, B.D. Hammock, F.G. Haj. Univ. of Tennessee, Knoxville and Univ. of California, Davis.

A121 1195.9 Fibroblast Growth Factor 21 Is Critically Involved in Alcohol-Induced Hepatic Lipid Metabolism and Adipose Tissue Lipolysis in Mice. C. Zhao, L. Liu, Y. Yang, C. McClain, W. Feng. Univ. of Louisville.


1196. PHASE II ENZYMES

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Drug Metabolism
Presentation time: 12:30 PM–2:30 PM


A124 1196.2 Refining the Half-Site Reaction Mechanism of SULT1B1 Using Engineered Heterodimers. Z.E. Tibbs, C.N. Falany. Univ. of Alabama at Birmingham.

A125 1196.3 Sulfation of Environmental Estrogens by Human Cytosolic Sulfotransferase 1 C4 A.L. Guidry, M. Runge-Morris, C.N. Falany. Univ. of Alabama at Birmingham and Wayne State Univ.


1197. CARDIOMYOCYTES/HEART FAILURE III

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Cardiovascular Pharmacology
Presentation time: 12:30 PM–2:30 PM

A129 1197.1 Repeated Non-invasive Limb Ischemic Preconditioning Confers Cardioprotection in Diabetes by Reducing Necroptosis through STAT3 Activation That Is PKCe/Caveolin-3 Dependent. H. Li, C. Wang, C. Chen, M.G. Irwin, Z. Xia. The Univ. of Hong Kong and Yichang Central People’s Hosp., China.


A131 1197.3 Effects of Cimaglermin Alfa Administration on LV Function in Rats with Chronic Heart Failure Induced by LAD Occlusion. A. Ganguly, R. Zolty, E. Troy, J. Iaci, C. Hackett, A. Caggiano, T.J. Parry. Acorda Therapeut., Ardsley, NY and Univ. of Nebraska Med. Ctr.


A133 1197.5 Pharmacologic Treatment with a Melancortin Analogue Protects against Pressure-Overload Induced Cardiac Hypertrophy. S. Ruohonen, P. Rinne, S. Ruohonen, M. Röyttä, E. Savontaus. Univ. of Turku, Finland.


1188. LIPIDS IN CARDIOVASCULAR PHARMACOLOGY AND DISEASE
Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Cardiovascular Pharmacology
Presentation time: 12:30 PM–2:30 PM


A139 1188.2 Enhanced Endothelial Permeability by Free Fatty Acid Due to Lysosomal Cathepsin B-Mediated Activation of Nlpr3 Inflammasome. X. Li, L. Wang, T. Nguyen, Y. Zhang. Univ. of Houston.

A140 1188.3 Retinoic Acid Metabolites and Isomers Have Differential Effects on Lipid Metabolism. S. Tripathy, C.Y. Han, N. Isoherranen. Univ. of Washington.

A141 1188.4 Angiotensin II Negatively Modulates Coronary Reactive Hyperemia and Over-Expression of Soluble Epoxide Hydrolase Further Aggravates Its Effect. A. Hanif, D.C. Zeldin, M.A. Nayem. West Virginia Univ. and NIEHS, NIH.

A142 1188.5 The Role of Cytochrome P450 1B1 and Its Associated Mid-chain Hydroxyeicosatetraenoic Acids Metabolites in the Development of Cellular Hypertrophy Induced by Isoproterenol. A.O.S. El-Kadi, Z.H. Maayah. Qatar Univ. and Univ. of Alberta.

A143 1188.6 Angiotensin II Induces Prostaglandin E2 Production and Oxidative Stress in the Renal Cortex. W.A. Alanazi, S. Fakhruddin, K. Jackson. Univ. of Louisiana at Monroe.


1199. CARDIOVASCULAR LIPID DISORDERS
Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Cardiovascular Pharmacology
Presentation time: 12:30 PM–2:30 PM


A146 1199.2 Pharmaceutical Formulation Flavonoids and Saponins Extracted from Black Bean (Phaseolus vulgaris L.) Seed Coats and Their Hypcholesterolemic Properties for the Prevention of Cardiovascular Diseases. A. Jimenez-Ramos, R.A. Chavez-Santoscoy, Sch. of Chem Sci. and Engin., Autonomous Univ. of Baja California, Tijuana.

A147 1199.3 Action of Nitrooxide Tempol in Dyslipidemia of the Knockout Mice for LDL -/- Gene Receptor. I. Candido, G. Santos, A. Pupin, E. Camara, A.J.A.X. Pinto. Univ. José do Rosário Vellano (UNIFENAS), Brazil.

A148 1199.4 Deficiency of Prostaglandin E2 Receptor Subtype 4 Causes Dysregulation of Cholesterol Homeostasis in Mice. F. Ying, Y. Cai, E.H.C. Tang. Li Ka Shing Fac. of Med., The Univ. of Hong Kong.

A149 1199.5 Activation of TGF-β/Smad Signaling Pathway by High Cholesterol Diet: Possible Inhibition by Rutin Compound. S.S. Alrejaie, S. AlSharari, M. Hafez. King Saud Univ., Saudi Arabia.

A150 1199.6 Protein S-Glutathionylation: The Redox Mechanism of Metabolic Stress-Induced Endothelial Barrier Dysfunction and Atherosclerosis. J. Han, D. Shao, Y. Watanabe, M. Bachschmid, R. Matsui. Boston Univ.


A152 1199.8 Investigation of the Cardiovascular Toxicity of Oxidized Cholesterols Using the Zebrafish as an Animal Model. K. Kurogi. Univ. of Miyazaki, Japan and Univ. of Toledo.


1200. ENDOTOXEMIA/SEPSIS AND CARDIOVASCULAR DISEASE
Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D
Cardiovascular Pharmacology
Presentation time: 12:30 PM–2:30 PM


1201. CARDIOVASCULAR PHARMACOLOGY II

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Cardiovascular Pharmacology
Presentation time: 12:30 PM—2:30 PM

A161 1201.1 Anti-vascular Ageing Effects of Endothelial SIRT1 — Communicating with Smooth Muscle Cells of the Arteries. Y. Wang, A. Xu, P.M. Vanhoutte. The Univ. of Hong Kong.


A166 1201.6 Endothelial Nitric Oxide-Dependent and -Independent Effects of Hypoxia on Vascular Repair-Relevant Functions of Human CD34+ Cells. S. Joshi, Y. Jarajapu. North Dakota State Univ.

A167 1201.7 Analysis of the Vasodepressor Responses Induced by NaHS, Sodium Nitroprusside and Acetylcholine in Rats Treated with High-Fat Diet. M.E. Becerril-Chacon, E.J. Gutierrez-Lara, A. Sanchez-Lopez, D. Centurion. Cinvestav, Mexico City.

A168 1201.8 Increased Coronary Artery Dissection Rate and Severity in Murine Model of Marfan Syndrome. N. Milad, S.L. Sellers, M. Seidman, P.N. Bernatchez. Univ. of British Columbia and Ctr. for Heart Lung Innovation, Vancouver.


1202. IMMUNOLOGY, IMMUNOTHERAPY AND IMMUNOPATHOLOGY

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Translational and Clinical Pharmacology
Presentation time: 12:30 PM—2:30 PM


1203. CONTROL OF CEREBRAL CIRCULATION I

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM—3:00 PM

B1 1203.1 Norepinephrine Protects Cerebral Autoregulation and Reduces Hippocampal Necrosis after Traumatic Brain Injury via Block of ERK MAPK and IL-6 in Juvenile Pigs. W. Armstead, J. Riley, M. Pavilila. Univ. of Pennsylvania and Univ. of Washington.


B3 1203.3 The Angiotensin II Type 1b Receptor Is Sufficient for Sensing Intraluminal Pressure in Cerebral Artery Smooth Muscle Cells. P.W. Pires, E-A. Ko, S. Earley. Univ. of Nevada Sch. of Med.


B7 1203.7 Implications of Electrical Communication in Brain Blood Flow Regulation and Stroke Injury. A. Zechariah, U.I. Tuor, D.G. Welsh. Univ. of Western Ontario and Univ. of Calgary, Canada.

B8 1203.8 mTORC1 Signaling Mediates Cytoprotective Effects of H₂S in Cerebral Circulation. J.D. Liu, S. Basuroy, C.W. Leffler, H. Parfenova. Univ. of Tennessee Hlth. Sci. Ctr., Memphis.


1204. ENDOThelial CELL BIOLOGY II

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM—3:00 PM

B10 1204.1 Acetylcholine Released by the Endothelium Mediates Flow-Induced Endothelial Ca²⁺ Signalling and Vascular Relaxation. C. Wilson, M. Sanchez-Santos, J.G. McCarron. Univ. of Strathclyde, U.K.


1205. EXTRACELLULAR MATRIX/ CARDIAC REMODELING

Poster

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


1205.4 Organ Targeted Copper Delivery Reverses Fibrosis in Rhesus Monkey Model of Myocardial Ischemic Infarction. Y. Xiao, X. Nie, P. Han, Y.J. Kang. West China Hosp., Sichuan Univ., China.


1205.6 Doxorubicin-Induced Chronic Upregulation of Transforming Growth Factor-Beta. T.A. Mancilla, T. Andrews, G. Aune. Univ. of Texas Hlth. Sci. Ctr. at San Antonio.


1206. HYPERTENSION II

Poster

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM

1206.1 The Effects of High Salt Intake on Endothelial-Mediated Dilation and Constriction in the Vasculature. A. Bratcher, I. Joshua. Univ. of Louisville.

1207. MYOCARDIAL ISCHEMIA I

Poster

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B47 1207.3 Antioxidant Therapy Attenuates Post-infarct Left Ventricular Remodeling by Driving Expression of the Transcriptional Repressor Krüppel-Like Factor 15. R.G. Rogers, J.S. Otis. Georgia State Univ.


B52 1207.8 Cardiovascular Susceptibility to Acute Myocardial Ischemic Injury in Male and Female Rat Offspring Born Growth Restricted. A. Shah, N. Matsumura, J.S. Morton, J. Dyck, S.T. David. Univ. of Alberta.

1208. COOPERATION BETWEEN ADAPTIVE AND INNATE IMMUNITY POST-MYOCARDIAL INFARCTION (POSTERS)

Poster

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


1209. VASCULAR SMOOTH MUSCLE IN HEALTH AND DISEASE

Poster

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM

B54 1209.1 Analysis of Phosphorylation of the Myosin Targeting Subunit of Smooth Muscle Myosin Light Chain Phosphatase by Phos-tag SDS-PAGE. M.P. Walsh, J.A. MacDonald, C. Sutherland. Univ. of Calgary, Canada.


B56 1209.3 Molecular Mechanisms of the Inhibitory Effects of Viscolin on Overgrowth of Smooth Muscle Cells and Neointimal Hyperplasia. C. Wu. Taipei Med. Univ.


B60 1209.7 Vasodilatation of Renal Hypertensive Rat Coronary Artery Induced by the Compound That Combines NO Donor and COX Inhibitor (NCX2121) L.M. Bendhack, T.D-C. de Paula, M.D. Grando. Univ. of São Paulo.

B61 1209.8 Resting Tension Is Important for the Contractile Response but Not to Vasodilatation in Renal Hypertensive Rat Aorta. L.M. Bendhack, B.R. Silva, M.D. Grando. Univ. of São Paulo, Ribeirão Preto.


B63 1209.10 Na$^+$-HCO$_3^-$- Cotransporter NBCn1 Promotes Filopodia Generation, Smooth Muscle Cell Migration and Conduit Artery Remodeling. C. Aalkjaer, E. Boedtkjer, J.F. Bentzon, V.S. Dam. Aarhus Univ., Denmark and Univ. of Copenhagen.


1210. GABOR KALEY LECTURE POSTER SESSION

Poster

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B69 1210.2 High Affinity Bent $\beta_3$ Integrin Binds Ligand in Cis and Regulates Inflammation. Z. Fan, S. McArdle, Z. Mikulski, E. Gutierrez, M. Ginsberg, A. Groisman, K. Ley. La Jolla Inst. for Allergy and Immunol. and UCSD.


B73 1210.6 Endothelial Cell Secreted MIF Regulates Pericyte Contractility to Decrease Barrier Function. A. Pellowe, Y. Hou, M. Harris, R. Liu, J.S. Pober, A. Gonzalez. Yale Univ.


B94 1212.10 Preeclampsia in the Rat: Validation of the Deoxycorticosterone (DOCA)-Salt Model. A.E. Hanson, J.N. Stallone. Texas A&M Univ.


B96 1212.12 Hypoxia and Ischemia Regulate Placental Syndecan Expression and Shedding. E.M. George. Univ. of Mississippi Med. Ctr.

1213. DEVELOPMENTAL PROGRAMMING AND CARDIO-RENAL FUNCTION IN ADULTS

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER,
EXHIBIT HALLS A-D


1213.3 Early Life Stress Induces Increased Interleukin 1 Beta in Renal Tubular Epithelial Cells in Adult Rats. I. Obi, C. De Miguel, D. Ho, A. Loria, J. Pollock. Univ. of Alabama at Birmingham and Univ. of Kentucky.


1213.5 Potential Role of Renal Mineralocorticoid Receptor Increasing the Blood Pressure Sensitivity in Female Mice Exposed to Early Life Stress. M.O. Murphy, D. Cohn, A.S. Loria. Univ. of Kentucky.
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<td>B102</td>
<td><strong>1214.1 Increased Hepatic Lipogenic Gene Expression Correlates with Enhanced Central and Ectopic Adiposity in Female C57BL6 Mice Exposed to Maternal Separation</strong></td>
<td>M. Murphy, D. Cohn, C. Wills, L. Gilbert, D. Powell, A. Loria</td>
<td>Univ. of Kentucky</td>
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<td>B103</td>
<td><strong>1214.2 Early-Life Stress Induces Increased Plasma Heme and Toll-Like Receptor 4 Activation Leading to Increased Superoxide Production in Aortic Endothelial Cells</strong></td>
<td>D.H. Ho, A.L. Ring, J.S. Pollock</td>
<td>Univ. of Alabama Birmingham and Tripler Army Med. Ctr., Honolulu</td>
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<td>B104</td>
<td><strong>1214.3 Effect of a Dietary and Exercise Intervention during Pregnancy and Lactation on White Adipose Tissue Gene Profiles and Adiposity with Maternal Obesity</strong></td>
<td>M. Symonds, I. Bloor, F. Galvez, E. Domfeh, B. Maicas, L. Poston, P. Taylor</td>
<td>Univ. of Nottingham, Fac. of Med., Granada and King’s Col. London</td>
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<td>B105</td>
<td><strong>1214.4 Leptin, Melanocortin 4 Receptor and Renal Nerves Play a Role in High Blood Pressure Programmed by Intrauterine Growth Restriction in Mouse</strong></td>
<td>S. Intapad</td>
<td>Univ. of Mississippi Med. Ctr.</td>
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<td>B107</td>
<td><strong>1214.6 Effect of Aging on Kidney Function in Male Intrauterine Growth Restricted Rats</strong></td>
<td>A. Newsome, J.H. Dasinger, S. Intapad, G. Davis, B. Alexander</td>
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<td>B108</td>
<td><strong>1214.7 Heme Oxygenase-1 Attenuates the Production of Endothelin-1 from Human Glomerular Endothelial Cells Induced by Serum from Placental Ischemic Hypertensive Rats</strong></td>
<td>B. Bakrania, F.T. Spradley, S. Satchell, D.E. Stec, J.P. Granger</td>
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<td>B110</td>
<td><strong>1214.9 Reductions in βENaC and ASIC2 Induce Preeclampsia-Like Symptoms in Pregnant Mice</strong></td>
<td>J.P. Warrington, J.P. Granger, M.J. Ryan, H.A. Drummond</td>
<td>Univ. of Mississippi Med. Ctr.</td>
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<td>B111</td>
<td><strong>1214.10 Influence of Activity before or during Pregnancy on Fetal and Infant Heart Outcomes</strong></td>
<td>L.E. May, O.R. Reoyo, C.M. Moyer, E.R. Newton, D. Strickland</td>
<td>East Carolina Univ., Tech Univ. of Madrid and Bridgewater Col., VA.</td>
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<td>B112</td>
<td><strong>1214.11 Pulmonary and Systemic Vascular Responses in Rats Exposed to Perinatal Hypoxia</strong></td>
<td>T.J. Greiner, D. Rotella, M.L. Bates</td>
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<td>B117</td>
<td><strong>1214.16 Inhibition of Hypoxia Inducible Factor-1α in the Renal Medulla Contributes to Fructose-Induced Salt-Sensitive Hypertension</strong></td>
<td>J. Hu, Q. Zhu, P-L. Li, K.M. Boini, N. Li. Virginia Commonwealth Univ.</td>
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<td>B118</td>
<td><strong>1214.17 Deletion of Rag1 Prevents High Dietary Protein-Induced Exacerbation of Hypertension and Renal Injury in Dahl SS Rats</strong></td>
<td>J.M. Abais-Battad, H. Lund, D.L. Mattson. Med. Col. of Wisconsin</td>
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<td>B123</td>
<td><strong>1214.22 Estradiol Facilitates a More Rapid Natriuretic Response to a High Salt Diet in Female Rats</strong></td>
<td>E.Y. Gohar, D.M. Pollock</td>
<td>Univ. of Alabama at Birmingham.</td>
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1218. OXIDATIVE STRESS

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TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


1218. OXIDATIVE STRESS

Poster

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B156 1218.3 Role of Nox4 and p67phox in ROS Production in Response to Increased Tubular Flow in the mTAL of Dahi Salt-Sensitive Rats. N.N. Zheleznova, C. Yang, A.W. Cowley. Med. Col. of Wisconsin.


B158 1218.5 Hypoxia Precedes Proteinuria in Mice with Diabetic Nephropathy. S. Franzen, L. Pihl, H. Gustafsson, F. Palm. Linköping Univ., Östergötlands landsting and Uppsala Univ.


1221. KIDNEY OMICS

**Poster**

**TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D**

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

B177 1221.1 Gene Set Enrichment Analysis of the Renal Cortex of Fructose Fed Rats. **A. Gonzalez-Vicente, U. Hopfer, J.L. Garvin.** Case Western Reserve Univ. and Univ. of Buenos Aires.

B178 1221.2 The Ubiquitin Ligase Ubr4 Controls Disassembly and Stability of Mechanosensitive Podocin/MEC-2 Ion Channel Supercomplexes. **M.M. Rinschen, T. Benzing.** University Hosp. Cologne, Germany.


1222. NUTRITION AND THE KIDNEY

**Poster**

**TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D**

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

B180 1222.1 Angiotensin II Type 2 Receptor Agonist C21 Reduces Kidney Damage and Improves Renal Tubular Functions in High Sodium Diet-Fed Obese Zucker Rats. **S.N. Patel, T. Hussain.** Univ. of Houston Col. of Pharm.


1223. EPITHELIAL BIOLOGY AND TRANSPORT II

**Poster**

**TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D**

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


B187 1223.4 ASIC1α/β-ENaC Hybrid Channels Contribute to Alveolar Fluid Clearance. **P. Trac, M.M. Greenlee, O. Al-Khalili, D.C. Eaton.** Emory Univ.


B189 1223.6 Comparative Characterization of the αε- and α-Subunit of the Epithelial Sodium Channel in Xenopus laevis L. Wicha, M. Perniss, M. Althaus. Justus Liebig Univ., Germany.

B190 1223.7 Glycosylated Asparagines Are Important Constituents for the Shear Force-Dependent Activation of the Epithelial Sodium Channel. **C. D. Barth, F. Knoepp, M. Fronius.** Univ. of Otago, New Zealand and Justus Liebig Univ., Germany.

B191 1223.8 COMMD10: A Novel Regulator of ENaC Trafficking? **A. Ware, E. Burstein, F. McDonald.** Univ. of Otago, New Zealand and Univ. of Texas Southwestern Med. Ctr.


B194 1223.11 γ Subunit Proteolytic Fragment Binds the Epithelial Na⁺ Channel at the Finger-Thumb Domain Interface of the γ Subunit. **O.B. Kashlan, R.N. Thompson.** Univ. of Pittsburgh.


1224.5 Diaphragm Assessment in Mice Overexpressing Phospholamban in Slow-Twitch Type I Muscle Fibers. P.J. Chambers, V.A. Fajardo, R. Tupling. Univ. of Waterloo, Canada.


1224.8 Sarcolipin Ablation Impairs Muscle Regeneration after Acute Injury. C.A. Bellissimo, E. Bombardier, P. Chambers, V.A. Fajardo, R. Tupling. Univ. of Waterloo, Canada.


B229 1224.16 TRPM1-Mediated Ca\(^{2+}\) Signaling in Cerebral Artery Smooth Muscle. C.P. Lane, H.A.T. Pritchard, B.T. Drumm, K.M. Sanders, S. Earley. Univ. of Nevada, Reno.


B239 1224.26 Pathway Analyses of Kidney Transcription from inv/inv Mice Reveal Altered Cellular Processes and Sodium Ion Transport. N.H. Kulkarni, R.C. Smith, T. Wei, B.L. Blazer-Yost. Indiana Univ.-Purdue Univ. at Indianapolis and Eli Lilly and Company.


B241 1224.28 Store Operated Ca\(^{2+}\) Entry Suppressed TGFβ1- Smad3 Signaling Pathway in Glomerular Mesangial Cells. S. Chaudhari, W. Li, R. Ma. Univ. of North Texas Hlth. Sci. Ctr.

B242 1224.29 Marked Dysfunction in Gating Properties and Surface Expression of Podocyte TRPC6 Channels in Experimental Models of Primary and Secondary Focal and Segmental Glomerulosclerosis In Vivo and In Vitro. S.E. Dryer, E.Y. Kim, H. Roshanravan. Univ. of Houston.


B247 1224.34 Electrophilic Activation of the Nociceptive Channel TRPA1 Requires a 6000-Fold Increase in Reactivity at Cysteine 621 That Is Dependent on a Neighboring Lysine. P. Bahia, T. Parks, S. Stevens, T. Taylor-Clark. Univ. of South Florida.


B252 1224.39 Membrane Channel Gene Expression in Costal Cartilage from Patients with Chest Wall Deformities. A. Asmar, R. Barrett-Jolley, R. Kelly; Jr., R. Tanaz, M. Stacey. Old Dominion Univ., Univ. of Liverpool, U.K. and Childrens’ Hosp. of The King's Daughters, Norfolk, VA.


B256 1224.43 Molecular Basis of Inhibition of Acid Sensing Ion Channels by Diminazene. M.D. Carattino, A.J. Krauson. Univ. of Pittsburgh.


B258 1224.45 the Calcium-Activated Chloride Channel, Anoctamin-1, Is a Critical Regulator of Cell Proliferation Mediated via p44/42 MAPK Phosphorylation and Calcium Signaling. B.M. Franklin, J.L. Osborn. Univ. of Kentucky.


1225. EXTRACELLULAR MATRIX, CELL INTERACTIONS, AND TISSUE ORGANIZATION

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM

B265 1225.1 Heparanase May Contribute to Idiopathic Pulmonary Fibrosis via Nuclear Translocation of Cleaved Heparan Sulfate Proteoglycans. Y. Yang, A. Lara, A. Rutebemberwa, E. Schmidt. Univ. of Colorado Davis, Sacramento.

1226. CELL MIGRATION, CONTRACTILITY, CYTOSKELETON, AND ADHESION

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B269 1226.4 Electrotaxis of Cardiac Progenitor Cells, Cardiac Fibroblasts, and Induced Pluripotent Stem Cell-Derived Cardiac Progenitor Cells Requires Serum and Is Directed via PI3k Pathways. B.J. Frederick, V. Timofeyev, P.N. Thai, V.C. Lau, P. Sirish, N. Chiamvimonvat. Univ. of California, Davis.


1227. CELL AND MOLECULAR PROCESSES IN CANCER METASTASIS

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B275 1227.4 AD-20 Inhibits Prostate Cancer Cell Migration and Tumor Metastasis by Suppressing NRP1 Expression. X. Li. Hlth. Sci. Ctr., Peking Univ.

B276 1227.5 Effects of Calreticulin on FUT1 Expression and Beta1 Integrin Fucosylation in Different Cancer Cells. Y-C. Weng, Y-C. Chien, K-Y. Lu, H. Lee. Natl. Taiwan Univ.


1228. COMPARATIVE NEUROBIOLOGY

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM

B278 1228.1 The Role of Taurine in the Anoxia-Tolerant Western Painted Turtle Brain. A. Miles, L. Buck. Univ. of Toronto.


1229. COMPARATIVE METABOLIC AND LOCOMOTOR PHYSIOLOGY

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B284  1229.4  Ecologically-Relevant Temperatures and Stress in Desert Pupfish. A. McKenna, K. McKenna, S. Hillyard, F. van Breukelen. Univ. of Nevada, Las Vegas.


B288  1229.8  Biomechanics of Locomotion in Antarctic Sea Spiders (Pycnogonida) S. Roberts, A. Mahon, K. Halanych. Missouri Univ. of Sci. and Technol., Central Michigan Univ. and Auburn Univ.

1230. COMPARATIVE CARDIOVASCULAR AND RESPIRATORY PHYSIOLOGY

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B290  1230.2  Spinal Oxygen Sensors in Larval Amphibians. I.J. Evanger, M.D. Reed, R.J.A. Wilson, M. Dutschmann, B.E. Taylor, M.B. Harris. Univ. of Alaska Fairbanks, Univ. of Calgary, Canada and Univ. of Melbourne.

B291  1230.3  Respiratory Adaptations to High-Altitude Hypoxia in Deer Mice (Peromyscus maniculatus) C. Ivy, G. Scott. McMaster Univ., Canada.


B295  1230.7  Arterial P O2 Values Vary Dramatically during Diving and Surface Activities in the Freshwater Turtle (Trachemys scripta) C.L. Williams, J.W. Hicks. Univ. of California Irvine and UCSD.


B297  1230.9  Heart Rate Regulation in the Killer Whale. N. Bickett, M. Tift, J. St. Leger, P. Ponganis. Scripps Instn. of Oceanography and SeaWorld, La Jolla.


1231. NEUROTRANSMISSION AND SIGNALING MOLECULES

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM

B299  1231.1  Untargeted Metabolomics Reveal State-Dependent Neurochemical Changes in Frontal Association and Motor Cortex (M1) of C57BL/6J (B6) Mouse. A.K. Bourdon, G. Spano, M. Bellesi, G. Tononi, C. Cirelli, P.A. Serra, H.A. Baghdoyan, R. Lydick, S.R. Cammpagna. Univ. of Tennessee, Knoxville, Univ. of Wisconsin-Madison and Univ. of Sassari, Italy.


1232. NOVEL MECHANISMS AT THE LEVEL OF THE SOLITARY TRACT

Poster

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B303 1232.2 High Fat Diet Induced Inhibition of Sympathetic Outflow to Brown Adipose Tissue: Role of the Nucleus Tractus Solitarius. C.J. Madden, S.F. Morrison. Oregon Hltt. & Sci. Univ.


B306 1232.5 Inflammation Increases the Excitatory Synaptic Transmission in the Nucleus Tractus Solitarius of Rats Submitted to Sustained Hypoxia. L. Lima Silveira, D. Accorsi-Mendonca, L.G.H. Bonagamba, B.H. Machado. Univ. of São Paulo, Ribeirão Preto.

1233. CENTRAL REGULATION OF AUTONOMIC CONTROL: BRAIN STEM

Poster

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B309 1233.3 Neuronal Nitric Oxide Synthase Colocalizes with N-Methyl-D-Aspartate and Alpha-Amino-3-Hydroxy-5-Methyl-4-Isoxazolepropionic Acid Receptors in the Dorsolateral Periaqueductal Gray of Rats. L-H. Lin, S. Jones, R.A. Dampney, W.T. Talman. Univ. of Iowa, Univ. of Sydney and VA Med. Ctr., Iowa City.

1235. CENTRAL REGULATION OF AUTONOMIC CONTROL: HYPOTHALAMUS

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM

1236. VAGAL-RESPIRATORY COUPLING AND ITS IMPLICATIONS IN HEALTH AND DISEASE

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM

1238. THE MIND MATTERS: PSYCHOLOGY AS AN OVERLOOKED VARIABLE IN AUTONOMIC PHYSIOLOGY

Poster

TUE. 9:00 AM—SAN DIEGO CONVENtion CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM-3:00 PM


B351 1238.4 Angiotensin Type 1a Receptors within the Paraventricular Nucleus of Hypothalamus Regulate Cardiovascular and Behavioral Responsiveness to Psychological Stress. L. Wang, A.D. de Kloet, J.A. Smith, H. Hiller, C. Sumners, M.K. Raizada, E.G. Krause. Univ. of Florida.


1240. EXERCISE TRAINING RESPONSES

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM—3:00 PM


B432 1240.5 The Effects of a 16-Week Combined Exercise Training on Obesity and Physical Fitness in Breast Cancer Survivors: A Randomized Controlled Trial. K. Lee. Univ. of So. California.


B440 1240.13 Chronic Endurance Exercise Training Preserves Contraction-Induced Rapid Vasodilation in Older Adults. W.E. Hughes, C.T. Ganger IV, K. Ueda, D.P. Casey. Univ. of Iowa.


B442 1240.15 Responses of Inflammatory Cytokines following Moderate Intensity Walking Exercise in Overweight or Obese Individuals. G.A. Garza, L. Solis, K.-S. Park, Y. Koh. Texas A&M Intl. Univ. and Baylor Univ.


B444 1240.17 Relationship between Maximum Oxygen Consumption and Muscle Oxygenation during a Cross Country Season. T.A. McCready, K.E. Arnold, J.E. Davis. Alma Col., MI.


1241. FLUID BALANCE, BLOOD VOLUME REGULATION AND TRAUMA

**Poster**

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


**B459 1241.3** Effect of Hyperhydration on the Cardiovascular Responses to an LBNP Presyncopeal Challenge. C. Pawluk, T. Payne, M. Gibson, J.E. Davis. Alma Col., MI.


1242. RESPONSES OF BONE TO EXERCISE AND INACTIVITY

**Poster**

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


**B463 1242.3** Sciatic Lesion Does Not Induce Bone Disuse Atrophy in a Hibernating Species. J.C. Utz, H. Warsi, M. Treat, V. Sarkhanov, J. Thota, B. O’Toole, S. Donahue, F. van Breukelen. Univ. of Nevada Las Vegas and Colorado State Univ.


**1243.17** A within-Subject Comparison of Changes in Core Temperature with Hypoxia-Induced Manipulations of Relative Exercise Intensity. G. Coombs, N. Ravanelli, M. Cramer, P. Imbeault, O. Jay. Sch. of Human Kinet., Univ. of Ottawa and Univ. of Sydney.


**1244.3** Leucine Modulates mTORC1 Signaling by Acting Specifically to Alter the Phosphorylation Status of Sestrin. n2 S.R. Kimball, B.S. Gordon, J.E. Moyer, M.D. Dennis, L.S. Jefferson. Penn State Col. of Med. and Univ. of Central Florida.


**1244.8** Molecular Mechanisms behind the Accumulation of Lipid That Occurs after Skeletal Muscle Injury. J. Gumucio, D. Rittman, B. McDonagh, C. Mendias. Univ. of Michigan and Univ. of Liverpool.


**1244.11** Protein Arginine Methyltransferase Expression and Activity Are Modified by Ingested Fluid Temperature Independently of Differences in Mean Body Temperature. D.W. Stouth, V. LJubicic. McMaster Univ., Canada.


**1245.1** Dexamethasone Promotes the Long-Term Functional Recovery of Neuromuscular Junction after Ischemia/Reperfusion Injury Induced by Tourniquet in Mouse Hindlimb. D. Zhang, D. Wang, R.L. Muelleman, Y-L. Li. Univ. of Nebraska Med. Ctr.


**1245.3** Muscle Microvascular Blood Flow, Oxygenation, and pH as Potential Diagnostic Parameters for Chronic Exertional Compartment Syndrome. S.T. Challa, A. Uzosike, T. Kawai, A.R. Hargens, B.R. Macias. UCSD.

**1245.4** Does Titin Explain the High Passive Force Observed in Frog Tibialis Anterior Muscle? V. Joumaa, S.Y. Kim, R. Seerattan, W. Herzog. Univ. of Calgary, Canada.

**1245.5** Multiple Specific Cell Types Produce Type 1 Collagen during Skeletal Muscle Fibrosis. M. Chapman, K. Mukund, S. Subramaniam, R. Lieber. UCSD and Rehabil. Inst. of Chicago.


B508 1245.15 Changes in Titin Isoform Composition following Knockout of Bmal1, a Core Molecular Clock Factor, in Skeletal Muscle. L.A. Riley, X. Zhang, K.A. Esser. Univ. of Florida.


B510 1245.17 Chronic Heat Preconditioning Enhances Skeletal Muscle Function during Hypoxia and Reoxygenation. L. Zuo, W.J. Roberts, B.K. Pannell. The Ohio State Univ. and Oakland Univ., MI.

B511 1245.18 Eutherian BetaM, a Muscle-Specific Integral Protein of Inner Nuclear Membrane, Is Implicated in Regulation of MyoD Expression. N. Modyanov, N. Pestov, N. Ahmad. Univ. of Toledo Col. of Med.


B515 1245.22 The Molecular-Clock and MyoD1 Work in a Synergistic Fashion to Promote Robust Circadian Expression of Titin-cap in Skeletal Muscle. B.A. Hodge, X. Zhang, N. Arnold, K.A. Esser. Univ. of Florida and Alma Col., MI.


B520 1245.27 A Role for Titin during Doublet Potentiation of Fast and Slow Twitch Muscles. J.A. Monroy, E. Bailey, K. Nishikawa. Denison Univ. and Northern Arizona Univ.


B522 1245.29 Doublet Potentiation during In Vitro Cyclical Movement of Mdm Mouse Muscles. D. Enright, J.A. Monroy, K. Nishikawa. Denison Univ. and Northern Arizona Univ.


1246. SKELETAL MUSCLE PEROXISOMAL-MITOCHONDRIAL INTERACTIONS

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


1247. HORMONES, REPRODUCTION, AND GESTATIONAL BIOLOGY

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B533 1247.2 The Effect of Perinatal Blockade of Androgen Receptors on the Expression of Hypothalamic Estrogen Receptor-α and Sexual Motivation in Male Rats. C. Gopalain, B. Shah, T. Khan, G. Taylor. So. Illinois Univ. Edwardsville, St. Louis Col. of Pharm. and Univ. of Missouri St. Louis.


1248. NEUROENDOCRINOLOGY, HYPOTHALAMUS AND PITUITARY

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B553 1248.3 Characterization of Calcium Signaling in ToT1 Thyrotrophs. M. Tomic, P. Bargi-Souza, E. Leiva-Salcedo, M.T. Nunes, S.S. Stojilkovic. NICHD, NIH and Univ. of Sào Paulo.


1249. ALCOHOLIC AND NONALCOHOLIC FATTY LIVER DISEASES

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM

B558 1249.1 In the Short Term, Poor Nutrition Promotes Simple Steatosis without Inflammation in Adolescent Rats. M. Crawford, T. Liss, M. Calhoun, K. Sweazee. Arizona State Univ.

B559 1249.2 Identification of Cell Surface Receptors for the Novel Adipokine CTR. P3 J.M. Peterson. East Tennessee State Univ.


1250. BARRIER FUNCTION AND REPAIR

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B563 1249.6 mTOR Signaling Coordinates Glucose and Lipid Metabolisms in Liver. Z. Li. Univ. of Michigan.

B564 1249.7 Downregulation of Hepatic ecto-5'-Nucleotidase (CD73) in a Mouse Model of Alcoholic Liver Injury and in Patients with Alcoholic Steatohepatitis. M.L. Richardson, H.H. Willcockson, G. Odena, R. Bataller, N. Snider. Univ. of North Carolina at Chapel Hill.
1251. CHRONIC LIVER DISEASES MODULATED BY TRANSCRIPTIONAL AND TRANSLATIONAL MECHANISMS

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM

B574 1250.10 Metformin Improves Ileal Epithelial Barrier Function in Interleukin-10 Deficient Mice. Y. Xue, H. Zhang, G. Yang, M-J. Zhu. Washington State Univ.

B575 1250.11 AMPK Enhances Enterocyte Migration and Intestinal Epithelial Differentiation via Regulating CD.2 X. Sun, Q. Yang, M. Du, M. Zhu. Washington State Univ. and Univ. of Idaho.

1252. EFFECTS OF DIET ON GI AND LIVER PHYSIOLOGY

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B584 1252.4 Reduced Jejunal Basal Chloride Secretion in Diabetes Is Reversed by Genistein Diet. L. Al-Nakkash, F. Masood, S. Catmull. Midwestern Univ., AZ.

B585 1252.5 Maternal High Fat Diet Increases an Inhibitory Extrasynaptic Tonic GABA<sub>A</sub> Current in Dorsal Motor Nucleus of the Vagus Neurons Regulating Gastric Functions. C.A. McMenamin, K.N. Browning. Penn State Col. of Med.
1254. GASTROINTESTINAL MOTILITY

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM

B588 1254.1 Gallbladder Motility and the Sex of the Guinea Pig. L.W. Kline, E. Karpinski. Univ. of Alberta.


B591 1254.4 Sex Differences in GABAergic Neurotransmission to Gastric-Projecting DMV Neurons. Y. Jiang, M.P. D’Angelo, L. Anselmi, R.A. Travagli. Penn State Coll. of Med. and Univ. of Pittsburgh.


B593 1254.6 Disruption of Serotonin Signaling Results in Loss of Coordinated Tone Development and Subsequent Inhibition of Peristalsis in Guinea Pig Distal Colon. M. McGill, M. Klinger-Lawrence, G. Herrera. Catamount R&D, VT.

1255. GI AND LIVER EPITHELIAL JUNCTIONS

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


1256. GI AND LIVER STEM CELLS

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM

B595 1256.1 Nutritional Status Dictates the Rate and Mode of Intestinal Epithelial Stem Cell Proliferation. K.A. McGeever, M. Dailey. Univ. of Illinois Urbana-Champaign.

1257. GROWTH FACTORS, PROLIFERATION, DIFFERENTIATION AND APOPTOSIS

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM

B596 1257.1 Notch and mTOR Regulate Proliferation of Human Gastric Cancer Cells. G. Wong, E.S. Demitrack, L.C. Samuelson. Univ. of Michigan.


1258. MICROBES AND NUTRITION

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


1259. PREBIOTICS, PROBIOTICS AND GUT FUNCTION

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B602 1259.3 Effects of Probiotic Bacteria on Cytokine Expression in Cultured Intestinal Epithelial Cells. S. Lyle, T. Erickson, K.L.W. Walton. Missouri Western State Univ.

1260. Renin-Angiotensin System, Ion Transport, and Vascular Disease: Genes and Function

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B613 1260.10 Deficiency of Vascular TLR4 Protects against Lipopolysaccharide-Induced Endothelial Dysfunction and NADPH Oxidase-Derived Superoxide. S. Didun. Univ. of Mississippi Med. Ctr.

1261. Control of Breathing: Integrated Responses

Poster
TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


B617 1261.4 Ventral Medullary Inspiratory Neurons Do Not Contribute to Increased Inspiratory Drive during Swallow. T. Pitts, S. King, I. Poliacek. Univ. of Louisville and Comenius Univ., Slovakia.

B618 1261.5 The Coordination of Cough and Swallow Behaviors in Humans. E.H. Brown, S.C. Aslan, A.V. Ovechkin, T. Pitts. Univ. of Louisville.


B629 1261.16 Pharmacological Inhibition of Inflamimic Prefrontal Cortex Abolishes Sniffing Behavior and Respiratory Response to Stress. E. Bondarenko, E. Nalivaiko. Univ. of Newcastle, Australia.


B632 1261.19 Hypoglycaemia Modulates the Patterns of Ventilatory Responses Evoked by Chemoreceptor Stimulation. A.M. Coney, A. Mobley, C. Ray. Univ. of Birmingham, U.K.

1262. INFLAMMATION AND ITS INFLUENCE ON LUNG FUNCTION AND RESPIRATORY CONTROL

Poster

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM

B633 1262.1 Time Course of Brainstem Glial Activation following Exposure to Chronic Sustained Hypoxia. T.E. Arborgast, J.A. Stokes, F.L. Powell. UCSD.

B634 1262.2 Ventilatory Acclimatization to Hypoxia Requires Early Microglia Activation. J.A. Stokes, T.E. Arborgast, F.L. Powell. UCSD.

B635 1262.3 Lipopolysaccharide-Induced IL-6 and TNF-Alpha Expression in Neonatal Rat nucleus tractus solitarii (NTS) In Vivo. R. Johnson, S. Murray, C. Wilson. Loma Linda Univ.


B641 1262.9 Inhibition of Equilibrative Nucleoside Transporters Attenuated Pseudomonas aeruginosa-Induced Acute Lung Injury. E. Chambers, D. Borgas, M. Blackburn, S. Rounds, Q. Lu.


1263. LUNG PHYSIOLOGY: AIRWAY RESPONSIVENESS AND SMOOTH MUSCLE CELL BIOLOGY

Poster

TUE. 9:00 AM—SAN DIEGO CONVENTION CENTER, EXHIBIT HALLS A-D

Presentation time: 12:45 PM–3:00 PM


The Response of Human Alveolar Epithelial Cells in a Novel Tissue-Equivalent Respiratory Model to H1N1 and H3N2 Influenza A Viruses. H. Gappa-Fahlenkamp, R. Bhownick. Oklahoma State Univ.

### WEDNESDAY, APRIL 6

#### Pharmacology

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<td>1265. PEPTIDES AND STRESS</td>
<td>Behavioral Pharmacology</td>
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**Poster**

**Wed. 9:00 AM—San Diego Convention Center, Sails Pavilion**


- **1265.3** Role of HSP40 Domains/Motifs in Protection from Cytotoxic Stress. S.R. Jones, W.M. Graham, H.R. Flores-Rozas. Florida A&M Univ.

- **1265.4** Sex Differences in Alcohol-Induced HPA Activation following Systemic versus icv Administration in Rats: Neuronal Activation Studies. S. Davis, A.A. Wakley, P. Yap, C. Pharm, C. Kiester, D.J. Selavage. Univ. of New England.

- **1265.5** Cyclic AMP Pathways Leading to Immediate-Early Gene Activation in Neuroendocrine Cells: Relevance to Neurotransmitter Signaling through the D1 Dopamine and PAC1 Neuropeptide Receptors. L.E. Eiden, A. Elkahloun, B.B. Samal, M.V. Eiden, A.C. Emery. NIMH, NIH and NHGRI, NIH.


- **1265.7** Corticotropin-Releasing Factor and Glucocorticoids as Gastroprotective Components of Brain-Gut Interactions in Stress. L. Filaretova, M. Myazina, T. Bagaeva. Pavlov Inst. of Physiol., St. Petersburg.


- **1265.10** Subacute Neuroendocrine and Behavioral Effects of Underwater Trauma and Predator Exposure in Rats. N.L.T. Moore, K. Cravedi, C. Vuong, J.C. Sousa, S.R. Marcussen. Walter Reed Army Inst. of Res.

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<td>1266. GPCR TRAFFICKING AND TRANSACTIVATION</td>
<td>Molecular Pharmacology</td>
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**Poster**

**Wed. 9:00 AM—San Diego Convention Center, Sails Pavilion**

- **1266.1** Spatial Encoding of Cyclic AMP Signaling Specificity by GPCR Endocytosis. N. Tsvetanova, M. von Zastrow. UCSF.

- **1266.2** Ubiquitin Plays an Atypical Role in GPCR-Induced p38 MAP Kinase Activation on Endosomes. N. Grimsey, R. Narala, B. Aguilar, C. Rada, T. Smith, A. Soohoo, M. Puthenveedu, V. Nizet, J.J. Trejo. UCSD.


- **1266.4** Methamphetamine-Induced Ubiquitination and Trafficking of Dopamine Transporters. T. Hinshaw, H. Sun, D. Leusser, R. Chen. Wake Forest Sch. of Med.


- **1266.9** Activation of G Protein-Coupled Estrogen Receptor Potentiates Porcine Coronary Artery Contraction via EGFR Transactivation. X. Yu, J.N. Stallone, G. Han. Texas A&M Univ.
1267. HEPATOTOXICITY

Poster

Wed. 9:00 AM—San Diego Convention Center, Sails Pavilion

Toxicology

Presentation time: 12:30 PM–2:30 PM


W304 1267.3 MAPK Signaling Plays an Important Role in Differentiating Paraquat- and Diquat-Induced Hepatocellular Injury. C. Tong, M. Fry, B.D. Stamper. Pacific Univ., OR and CareOregon, Portland.

W305 1267.4 Rutin Attenuates High Cholesterol Diet-Induced Hepatotoxicity in Rat Model via Regulation of Tumor Suppressor Genes p53 and Caspase-3 and. A. Alhoshani, M.M. Hafez. King Saud Univ., Saudi Arabia.

1268. CARCINOGENESIS AND CHEMOPREVENTION

Poster

Wed. 9:00 AM—San Diego Convention Center, Sails Pavilion

Cancer Pharmacology

Presentation time: 12:30 PM–2:30 PM


W308 1268.2 Investigate Cigarette Smoke Induced IL-8 Secretion in Ovarian Cancer Cells and Estrogen Mediated Modulations. W. Sumanasekera, T. Beckmann. Sullivan Univ. Col. of Pharm.


1269. DIABETES I

Poster

Wed. 9:00 AM—San Diego Convention Center, Sails Pavilion

Translational and Clinical Pharmacology

Presentation time: 12:30 PM–2:30 PM


1270. DIABETES II

Poster

Wed. 9:00 AM — San Diego Convention Center, Sails Pavilion

Translational and Clinical Pharmacology

Presentation time: 12:30 PM – 2:30 PM


W325 1270.3 Metformin Protects Renal Tubular Cells against Albumin-Induced Alterations and Cellular Injury. S. Allouch, S. Munusamy. Col. of Pharm., Qatar Univ.


W327 1270.5 Evaluation of the Vasopressor Responses of Metformin and One Analogue of Metformin in Insulin Resistance Rats. E.J. Gutierrez-Lara, A. Sanchez-Lopez, G. Navarrete-Vazquez, D. Centurion. CINVESTAV, Mexico City and Autonomous Univ. of State of Morelos, Cuernavaca.


1271. HYDROGEN SULFIDE PHARMACOLOGY

Poster

Wed. 9:00 AM — San Diego Convention Center, Sails Pavilion

Drug Discovery and Development

Presentation time: 12:30 PM – 2:30 PM


1272. ACADEMIC DRUG DISCOVERY

Poster

Wed. 9:00 AM—San Diego Convention Center, Sails Pavilion

Drug Discovery and Development

Presentation time: 12:30 PM–2:30 PM


1273. POSTTRANSLATIONAL REGULATION OF CARDIAC FUNCTION

Poster

Wed. 9:00 AM—San Diego Convention Center, Sails Pavilion

Presentation time: 12:30 PM–2:15 PM


W344 1272.5 Therapeutic Potentials of Small-Molecule Inhibitors Targeting Exchange Protein Activated by cAMP. X. Cheng, Y. Zhu, F. Mei. Univ. of Texas Hlth. Sci. Ctr. at Houston.

W345 1272.6 Advancing Soluble Epoxy Hydrolase Inhibitors through the Valley of Death into Phase 1 Clinical Trials for Treating Painful Diabetic Neuropathy by Utilizing University Partnerships, Collaborations, and NIH Support. C. McReynolds, W.K. Schmidt, K. Wagner, B.D. Hamburger. EicOsis LLC, NorthStar Consulting and Univ. of California, Davis.


W348 1272.9 Antihyperglycemic Effect of 5-HT2 Receptor Stimulation Induced by Indorenate, a Serotonin Analog. E. Hong, J.M. Medina, A. Silva-Arzave. CINVESTAV, IPN, Mexico City.


W350 1272.11 Targeting the Sphingosine-1-Phosphate Receptor Using Virtual Screening Methods. A.D. Caliman, Y. Miao, J.A. McCammon. UCSD.


Physiology


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1274. CARDIAC ELECTROPHYSIOLOGY

Poster

Presentation time: 12:30 PM–2:15 PM

W12 1274.1 Chronic Maternal Hypercortisolemia in Late Gestation Impairs Fetal Cardiac Function. A. Antolic, J. Bright, E.M. Sumners, C.E. Wood, M. Keller-Wood. Univ. of Florida.


W16 1274.5 The Effects of Head Impacts on QTVI in Soccer Players. J. Jordan, S. Melton. West Chester Univ.


W18 1274.7 Myocardial Electrotropic Coupling Modulates Repolarization Heterogeneities In Vivo: Implications for the Assessment of Pro-arrhythmic Liabilities In Vitro and In Silico. C.L. del Rio, R.L. Hamlin, G.E. Billman. QTest Labs, Columbus and The Ohio State Univ.


W20 1274.9 Ca\(^{2+}\)/1.2 Channel Oligomerization Amplifies Ca\(^{2+}\) Influx during \(\beta\)-Adrenergic Stimulation. R.E. Dixon, L.F. Santana. Univ. of Washington and Univ. of California, Davis.


1275. CONTROL OF CEREBRAL CIRCULATION II

Poster

Presentation time: 12:30 AM–2:15 PM


W26 1275.3 Decreased Glucocorticoid Exposure In Utero Alters Cerebral Artery Development and Reduces Ischemia-Induced Vascular Injury in the Neonatal Rat Brain. L. Durrant, P.N. Jackson, D. Carreon, C. Doan, W. Pearce. Loma Linda Univ.


W29 1275.6 Effect of Focal Cerebral Ischemia on BK\(_{Ca}\) and TRPV4 in Rat Middle Cerebral Artery. T.V. Murphy, H.L. Nguyen, T.H. Grayson, N.M. Jones, S.L. Sandow. Univ. of New South Wales and Univ. of Sunshine Coast, Australia.


1276. ENDOTHELIAL CELL BIOLOGY III

Poster
WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION

Presentation time: 12:30 PM–2:15 PM

W33 1276.1 Shear Stress Increases Sirtuin 3 Expression and Promotes Mitochondrial Functions in Endothelial Cells. L.D. Wang. Tzu-Chi Univ., Taiwan.


W42 1276.10 Connexin Hemichannels and Pannexin Channels Contributes to the Intracellular Ca<sup>2+</sup> Signal Activated by PAF in Endothelial Cells of Mesenteric Post-capillary Venules. P.C. Burboa, I. Poblete, X. Figueroa. Pontificl Catholic Univ. of Chile.


1277. GENE EXPRESSION AND CARDIOVASCULAR FUNCTION

Poster
WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION

Presentation time: 12:30 PM–2:15 PM


W47 1277.3 Vasopressin Gene Expression Is Differently Regulated at the PVN Level of Salt-Loaded Wistar and SHR. N. Ribeiro, L.J. el Chaar, V.R. Antunes. Univ. of São Paulo.


W49 1277.5 The exon Junction Complex Proteins Are Non-AMP Kinase-Dependent Sensors of Energetic Stress and Regulate Contractility and Sarcomere Structure in Cardiac Myocytes. S. Boanteng, O. Pierrat, A. Paudyal, O. Koroleva. Univ. of Reading, U.K.


1278. MYOCARDIAL ISCHEMIA II

Poster
WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION

Presentation time: 12:30 PM–2:15 PM


W53 1278.2 Regression of Pressure Overload-Induced Cardiac Hypertrophy by Trientine-Induced Copper Redistribution to the Heart in Rats. J. Liu, Y. Liu, C. Fu, Y. Xiao, Q. Feng, S. Fan, X. Ding, L. Qiu, P. Han, Y.J. Kang. West China Hosp., Sichuan Univ.

W54 1278.3 Recovery of Ischemic Infarction by Trientine-Induced Copper Redistribution in the Heart of Rhesus Monkeys. P. Han, X. Ding, C. Fu, X. Zhang, W. Zhang, Y. Xiao, H. Wang, X. Sun, S. Fan, Y.J. Kang. West China Hosp., Sichuan Univ.


W59 1278.8 Hemodynamics and Premature Ventricular Beats in Conscious Rats with Acute Myocardial Infarction Treated with Pyridostigmine Bromide. F.M. Santos-Almeida, H.C. Salgado, R. Fazan; Jr. Sch. of Med. of Ribeirão Preto, Brazil.


1279. MYOCARDIAL METABOLISM

Poster

Wed. 9:00 am—San Diego Convention Center, Sails Pavilion

Presentation time: 12:30 pm–2:15 pm


W63 1279.3 Effect of Caffeine on Cardiac Tissue Metabolism in Rabbits. A.A. Alada, W.E. Nabolou. Univ. of Ibadan, Nigeria.

W64 1279.4 Linking Metabolic and Structural Remodeling by Cardiac-Specific Activation of the Mechanistic Target of Rapamycin Complex 1. G. Davogusto, R. Salazar, H. Vasquez, H. Taegtmeyer. Univ. of Texas Hlth. Sci. Ctr. at Houston.


W66 1279.6 Does Protein Sulfuration Take Place in the Heart? T. Sonobe, P. Haouzi. Penn State Col. of Med.


1281.3 Endothelin-1 Blocks BK Channels by Stimulating Protein Kinase C-Mediated Rab11A Phosphorylation at Serine 177 in Arterial Smooth Muscle Cells. X. Zhai, M.D. Leo, J.H. Jaggar. Univ. of Tennessee Hthl. Sci. Ctr., Memphis.


1281.6 Augmented Expression of Piezo1 in the Uterine Vasculature during Pregnancy. N.L. Ko, M. Heal, L. John, N. Villalba, D. Henrion, M. Mandala, G.J. Oso1. Univ. of Vermont Col. of Med., Univ. of Angers, France and Univ. of Calabria, Italy.

1281.7 Acid Sensing Ion Channel 1 Contributes to Endothelium-Dependent Vasodilation in Mesenteric Arteries. S. Garcia, L. Herbert, T.C. Resta, N.L. Jernigan. Univ. of New Mexico Hthl. Sci. Ctr.


1281.9 Extracellular Nucleotide Signaling Stimulates Vascular L-Type Ca2+ Channel Activity and Vasoconstriction during Diabetic Hyperglycemia. M.P. Prada, M.A. Nystoriak, A. Syed, M. Nieves-Cintron, M.F. Navedo. Univ. of California Davis.


1282. ENDOTHELIAL DYSFUNCTION IN DIABETES

Poster

WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION

Presentation time: 12:30 PM–2:15 PM


1282.3 Activation of Toll-Like Receptor 4 by High Mobility Group Box 1 Leads to Oxidative Stress and Inflammation in Human Aortic Endothelial Cells. T. Szasz, S. Ogbi, R.C. Webb. Georgia Regents Univ.


1282.8 Exercise Improves Microvascular Reactivity in the Comorbidity between the Metabolic Syndrome and Depression. K. Branyan, E. Devallance, K. Lemaster, I. Chahal, J. Frisbee, P. Chantler. West Virginia Univ.

1282.9 Increased mTORC1 Signaling in the Vasculature of Diet-Induced Obese Mice and Obese Humans. J.J. Reho, D.-F. Guo, L. Wegman-Points, G.L. Pierce, K. Rahmouni. Univ. of Iowa.


1283. CENTRAL NERVOUS SYSTEM: OTHER

Poster

WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION

Presentation time: 12:30 PM–2:15 PM


W103 1283.3 Lipopolysaccharide-Induced Inflammation Does Not Alter Spinal Cord Excitability in Female or Male Mice. S. Putnam, C. Criddle, A. Lopez, K.A. Wilkinson. San Jose State Univ.


W105 1283.5 A Synthetic Luciferin Improves In Vivo Bioluminescence Imaging of Gene Expression in Cardiovascular Brain Regions of Mice. H. Simonyan, C. Hurr, C.N. Young. George Washington Univ.


1284. COGNITION AND BEHAVIOR

Poster

Wed. 9:00 AM—San Diego Convention Center, Sails Pavilion

Presentation time: 12:30 PM—2:15 PM


W111 1284.3 High Doses of Theanine Improve Visual Stimulus Discrimination in a Dose-Dependent Manner. C. Kahathuduwa, V. Weerasinge, T. Dassanayake, T. Amarakoona, M. Binks. Texas Tech Univ. and Univ. of Peradeniya and Univ. of Kelaniya, Sri Lanka.


W114 1284.6 Cognitive Impairment in Adolescents 10-14 Years Old with Type 2 Diabetes Mellitus Risk Factors and Daily Stress. C. Flores-Resendiz, A.D. Benitez-Arciniega, B.E. Martinez-Carrillo, S. Fernando, A.E. Soto-Piña. Autonomous Univ. of State of Mexico, Toluca and Univ. of North Texas Hlth. Sci. Ctr.

W115 1284.7 Dopamine System Regulation of Inhibition in an Animal Model of Interneuron Transcriptional Dysregulation and Hippocampal Circuit Dysfunction. L. Brady, A. Bartley, Q. Li, L. Dobrunz. Univ. of Alabama at Birmingham.


1285. BREATHING DISTURBANCES IN NEUROLOGICAL DISORDERS

Poster

Wed. 9:00 AM—San Diego Convention Center, Sails Pavilion

Presentation time: 12:30 PM—2:15 PM


1286. ACTIONS AND INTERACTIONS OF BAROREFLEXES, CHEMOREFLEXES AND METABOREFLEXES IN AUTONOMIC REGULATION AND HEART DISEASE

Poster

**Presentation time:** 12:30 PM–2:15 PM


**W129 1286.2** Diastolic Dysfunction and Arrhythmia Incidence Are Exacerbated by Central Chemoreflex Activation in HfPEF. R. Del Rio, C. Toledo, D.C. Andrade, C. Lucero, V. Aliaga, N.J. Marcus, C. Madrid. Autonomous Univ. of Chile, Santiago and Des Moines Univ.

**W130 1286.3** Increased Brain-Derived Neurotrophic Factor in Lumbar Dorsal Root Ganglia Contributes to the Enhanced Skeletal Muscle Afferent Neuronal Excitability via MAPK-Dependent Pathway in Heart Failure. H. Wang, G. Rozanski, I.H. Zucker. Univ. of Nebraska Med. Ctr.


**W135 1286.8** Selective Nrf2 Gene Deletion in the RVLM Increases Blood Pressure and Evokes Sympatho-excitation in Mice. L. Gao, I.H. Zucker. Univ. of Nebraska Med. Ctr.


W137 1286.10 Baseline Levels and Baroreflex Control of Cardiac Sympathetic Nerve Activity during Renovascular Hypertension. R. Ramchandra, B. George, D. Mahesz. Univ. of Auckland.
1288. EXERCISE, HEALTH AND DISEASE

Presentation time: 12:30 PM—2:15 PM


W151 1288.4 The Role of Body Habitus in Predicting Cardiorespiratory Fitness: Findings from the FRIEND Registry. T. Baynard, R.A. Arena, J. Myers, L.A. Kaminsky. Univ. of Illinois at Chicago, VA Palo Alto Hlth. Care Syst. and Ball State Univ.


W155 1288.8 Similar Effects between Follicular and Luteal Phases on the Urinary Levels of 6-Sulfatoxymelatonin following Endurance Exercise. N. Yasuda, T. Tanioka. Intl. Paciﬁc Univ. and Showa Univ., Japan.


1289. NEURAL CONTROL OF THE CIRCULATION
Poster

WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION

Presentation time: 12:30 PM—2:15 PM


W180 1289.9 Effects of Ischemic Preconditioning on Neural and Hemodynamic Responses to Muscle Metaboreflex Activation. A. Incognito, C. Doherty, J. Lee, P. Millar. Univ. of Guelph and Univ. of Guelph-Humber, Canada.

1290. HOT, COLD, AND OLD: AGING AND THE PHYSIOLOGY OF THERMAL STRESS
Poster

WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION

Presentation time: 12:30 PM—2:15 PM

1291. RECOVERY FROM EXERCISE

**Poster**

**Presentation time:** 12:30 PM–2:15 PM

**W202 1291.1** Influence of Time of Day on Post-exercise Hypertension Might Be Different in Hypertensives Receiving Different Anti-hypertensive Drugs: An Exploratory Study.


**W203 1291.2** Exaggerated Systolic Blood Pressure Response after Unaccustomed High-Intensity Interval Exercise Is Independently Related to Decreased Small Arterial Elasticity in Normotensive African American Women.


**W204 1291.3** Effect of Combination Ice and Compression Socks on Resting Calf Blood Flow in Trained Male Athletes.

**M.J. Hudock, J.L. Keller, A.R. Crecelius.** Univ. of Dayton.

**W205 1291.4** The Effects of Cold Water Immersion on Inflammation, Growth and Neurotrophic Factors in Skeletal Muscle after Resistance Exercise.


**W206 1291.5** Modulation of Methylated Arginine Metabolism to Target Exercise-Induced Fatigue in Duchenne Muscular Dystrophy.


**W207 1291.6** Gender-Related Difference in Cardiac Autonomic Nervous Activity during Post-exercise Recovery.

**C.-H. Liu, J.-S. Wang.** Chang Gung Univ., Taiwan.

**1292. ADIPOCYTE FUNCTION AND METABOLISM**

**Poster**

**Presentation time:** 12:30 PM–2:15 PM

**W208 1292.1** Ethanol Feeding Reduces Circulating CTRP3 Levels.

**C.K. Fleming, J.M. Peterson.** East Tennessee State Univ.

**W209 1292.2** Ablation of Phosphatidylethanolamine Methyltransferase Promotes White Adipose Browning in Mice.

**S. Strong, A. Verkerke, J. Johnson, E. Wentzler, K. Funai.** East Carolina Diabetes and Obesity Inst. and East Carolina Univ.

**W210 1292.3** 3T3-L1 Adipocytes Take Up Norepinephrine: No Canonical Norepinephrine Transporters Found.

**A. Ismail, N. Ayala-Lopez, R. Burnett, S. Watts.** Michigan State Univ.

**W211 1292.4** Ablation of eNOS Does Not Promote Adipose Tissue Inflammation.

**T.J. Jurrisissen, R.D. Sheldon, M.L. Gastecki, T.M. Zidon, R.S. Rector, V.J. Vieira-Potter, J. Padilla.** Univ. of Missouri-Columbia.

**W212 1292.5** Repeated Binge-Like Alcohol Intoxication Dysregulates Mesenteric Perilipidym Adipose Tissue Lipogenic Gene Expression.


**W213 1292.6** Repeated Binge-Like Alcohol Intoxication-Induced Adaptive Immunity in Perilipidym Adipose Tissue.


**W214 1292.7** Metformin Decreases Caveolin-1 Expression in Differentiated Human Preadipocytes.

**M.A. Pfeifer, Y. Zhang, P. Singh.** Mayo Clin.

**W215 1292.8** TonEBP/NFAT5 Inhibits Adipocyte Differentiation via Modulation of Mitotic Clonal Expansion during Early Phase of Differentiation in 3T3-L1 Cells.


**W216 1292.9** Effect of Vitamin D on Adipogenesis under Hypoxia.

**S. Jagalur Mutt, S. Lehtonen, P. Lehenkari, J. Leppäluoto, M.-R. Järvelin, K.-H. Herzig.** Univ. of Oulu, Finland and Imperial Coll. London.

**W217 1292.10** Chronic Binge Alcohol Dysregulates Mesenteric Adipose Tissue Phenotype in Simian Immunodeficiency Virus Infected Macaques.


**W218 1292.11** IFN-α Inhibits Adipogenesis via Regulation of JAK/STAT1 Signaling.

**L. Kyoungan, P. Suhkneung.** Sungkyunkwan Univ., South Korea.

**W219 1292.12** Thermal Imaging of Brown Adipose Tissue in Adult Humans.

1293. OBESITY AND SATIETY

Poster

Presentation time: 12:30 PM—2:15 PM


1294. CONTROL OF BREATHING: RESPIRATORY PLASTICITY

Poster

Presentation time: 12:30 PM—2:15 PM


W234 1294.4 Inactivity-Induced Phrenic Motor Facilitation Is Initiated though TNF Receptor 2 and Impaired by TNF Receptor 1 K. Braegelmann, S. Fischer, A. Agbeh, T. Baker. Univ. of Wisconsin-Madison.


1295. CONTROL OF BREATHING: RESPIRATORY MOTOR NEURONS AND MUSCLES

Poster

Presentation time: 12:30 PM—2:15 PM


1296. LUNG PHYSIOLOGY: AIRWAY EPITHELIAL CELL BIOLOGY

Poster
WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION
Presentation time: 12:30 PM—2:15 PM


1297. LUNG PHYSIOLOGY: BIOMECHANICS, SURFACTANT AND GAS EXCHANGE

Poster
WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION
Presentation time: 12:30 PM—2:15 PM

W246 1297.1 The Role of a High Cholesterol Diet on Surfactant Biophysics during Acute Lung Injury. S. Milos, J. Qua Hiansen, C. Yamashita, R. Veldhuizen. Univ. of Western Ontario.


1298. LUNG PHYSIOLOGY: DEVELOPMENT AND PLASTICITY


1300. BIOMEDICAL ENGINEERING

Poster

WEDNESDAY
