

EXPERIMENTAL BIOLOGY 2018 LATE-BREAKING ABSTRACTS

Authors Place Posters: 7:00 AM–9:00 AM

Poster Viewing: 9:00 AM–4:00 PM

Poster Presentation/Defending: listed under each discipline below

Authors Remove Posters: 4:00 PM–6:00 PM

Posters not removed by 6:00 PM will be discarded.

Anatomy: 12:00 PM–2:00 PM

All Anatomy late-breaking posters have been scheduled on Tuesday, April 24 in the Exhibit Hall.

Authors at boards:

Odd board #: 12:00 PM–1:00 PM

Even board #: 1:00 PM–2:00 PM

Late Breaking: Anatomy	E110–E118
Late Breaking: Anatomy Education.....	E119–E130
Late Breaking: Cardiovascular Biology.....	E131–E132
Late Breaking: Cell Biology	E133–E137
Late Breaking: Development and Growth.....	E138–E141
Late Breaking: Evolution and Comparative Anatomy.....	E142–E143
Late Breaking: Imaging	E144–E147
Late Breaking: Muscle.....	E148–E148
Late Breaking: Neurobiology	E149–E156
Late Breaking: Regenerative Medicine, Stem Cells, Wound Healing & Bioengineering	E157–E162

Biochemistry and Molecular Biology: 12:15 PM–2:00 PM

All Biochemistry and Molecular Biology late-breaking posters have been scheduled on Wednesday, April 25 in the Sails Pavilion

Authors at boards:

Board # ending in 0, 3 or 6, 11:45 AM–12:30 PM

Board # ending in 1, 4, 7 or 9, 12:15 PM–1:00 PM

Board # ending in 2, 5, or 8, 1:15 PM–2:00 PM

Genome Dynamics: DNA Replication, Repair and Recombination.....	LB1–LB6
Chromatin Structure, Remodeling and Gene Expression	LB7–LB17
RNA: Processing, Transport, and Regulatory Mechanisms.....	LB18–LB24
Protein Synthesis, Structure, Modifications and Interactions.....	LB25–LB65
Enzyme Chemistry and Catalysis	LB66–LB76
Chemical Biology, Drug Discovery and Bioanalytical Methods.....	LB77–LB106
Genomics, Proteomics and Metabolomics.....	LB107–LB120
Bacteria and Parasites: From Microbiome to Antibiotics.....	LB121–LB124
Signal Transduction and Cellular Regulation	LB125–LB156
Metabolism, Bioenergetics and Nutritional Biochemistry.....	LB157–LB174
Lipids and Membranes.....	LB175–LB183
Organelles and Trafficking.....	LB184–LB191
Glycans and Glycobiology.....	LB192–LB194
Society for Experimental Biology and Medicine (SEBM) Interdisciplinary Research.....	LB195–LB197
Education and Professional Development—General (BMB).....	LB198–LB220

Pathology: 11:45 AM–12:45 PM

Pathology late-breaking posters scheduled on Sunday, April 22 in the Exhibit Hall

Late Breaking: Breaking Bad: Consequences of Liver Injury.....D69–D74

Late Breaking: Biobanking, Epidemiology, Bioinformatics, and Biocomputational Pathology.....D75–D75

Late Breaking: Environmental and Toxicological Pathology.....D76–D83

Pathology late-breaking posters scheduled on Monday, April 23 in the Exhibit Hall

Late Breaking: Understanding a Broken Heart: Mechanisms of Cardiac PathologyD66–D66
Late Breaking: Vascular Biology and Pathology:
From A (Atherosclerosis) to Z (Lines of Zahn)D67–D70
Late Breaking: Cancer Pathology, Pathogenesis, and PathophysiologyD71–D73

Pathology late-breaking posters scheduled on Tuesday, April 24 in the Exhibit Hall

Late Breaking: Cell Death, Injury, and Repair: What Doesn't Kill You,
(Potentially) Makes You Stronger.....D72–D75
Late Breaking: Inflammation and ImmunopathologyD76–D81
Late Breaking: Immunohistochemistry, Microscopy, Molecular Methods,
and Biomarkers: Stocking the Toolbox to Understand Pathology and Disease.....D82–D87
Late Breaking: Pathogenesis of Infectious DiseasesD88–D91

Pharmacology: 12:30 PM–2:30 PM

Pharmacology late-breaking posters scheduled on Sunday, April 22 in the Exhibit Hall

Late Breaking: Cardiovascular PharmacologyC268–C279
Late Breaking: Central Nervous System PharmacologyC280–C293
Late Breaking: Pharmacology—OtherC294–C299

Pharmacology late-breaking posters scheduled on Monday, April 23 in the Exhibit Hall

Late Breaking: Drug Discovery and Development.....C257–C270
Late Breaking: Toxicology.....C271–C280
Late Breaking: Drug Metabolism and Disposition (DMD).....C281–C288

Pharmacology late-breaking posters scheduled on Tuesday, April 24 in the Exhibit Hall

Late Breaking: Cellular and Molecular PharmacologyC270–C277
Late Breaking: Cancer PharmacologyC278–C296
Late Breaking: Pharmacogenomics and Translational Pharmacology.....C297–C297

Physiology: 10:00 AM–12:00 PM

All Physiology late-breaking posters have been scheduled on Wednesday, April 25 in the Sails Pavilion

Teaching of Physiology.....LB221–LB228
Comparative and Evolutionary PhysiologyLB229–LB234
Translational Physiology.....LB235–LB235
Sex Differences in PhysiologyLB236–LB238
Biomedical Engineering.....LB239–LB243
Environmental and Exercise PhysiologyLB244–LB273
Microcirculation.....LB274–LB282
CardiovascularLB283–LB340
Water and Electrolyte HomeostasisLB341–LB345
Renal PhysiologyLB346–LB356
Gastrointestinal and Liver Physiology.....LB357–LB364
Nutrition PhysiologyLB365–LB379
Endocrinology and Metabolism.....LB380–LB398
RespirationLB399–LB403
Hypoxia.....LB404–LB414
Cell and Molecular Physiology.....LB415–LB444
Epithelial Transport.....LB445–LB447
Central Nervous System (CNS).....LB448–LB458
Neural Control and Autonomic RegulationLB459–LB476
Physiological Genomics.....LB477–LB480
Muscle BiologyLB481–LB498

Anatomy

LATE BREAKING: ANATOMY

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

Presentation time: 12:00 PM–2:00 PM

Authors at boards:

Odd board #: 12:00 PM–1:00 PM

Even board #: 1:00 PM–2:00 PM

Board# Pub#

- E110** LB499 Inter-Hemispheric Analysis of Compensatory Neural Activity in Deep Brain Stimulation Patients. **D.R. Uy, J.R. Thompson, A. Abosch.** University of Colorado Anschutz Medical Campus, Neuroscience Center and University of Colorado Anschutz Medical Campus.
- E111** LB500 Clinical Implication of the Arterial Supplies and Their Anastomotic Territories of the Nasolabial Region for Avoiding Arterial Devastation and Complications During Soft Tissue Filler Injection. **B. Jitaree, T. Phumyoo, S. Uruwan, W. Sawatwong, O. Cesak, T. Tansatit.** Department of Anatomy, Faculty of Medicine, and The Chula Soft Cadaver Surgical Training Center, Chu, Thailand, College of Health Sciences, Christian University, Thailand, Faculty of Medicine and Dentistry and Palacky University Olomouc, Czech Republic.
- E112** LB501 Rare Case of an Accessory Left Vertebral Artery on the Aortic Arch. **G. Granite, K. Lashley.** Uniformed Services University of the Health Sciences.
- E113** LB502 Dimensions and Angulations of the Coronary Sinus Tributaries: Implications for Left Ventricular Pacing. **K.W. Tyrak, M. Mazur, J. Holda, M.K. Holda, A. Zabowka, W. Klimek-Piotrowska.** Jagiellonian University Medical College, Poland.
- E114** LB503 An Anatomical Study to Determine the Safest Posterior Arthroscopic Approach to the Human Hip. **D.F. Curcio, B.A. Gomes, M.R.F. Ramos, C.R. de Almeida, S.C.A. Fiorelli, R.K.A. Fiorelli, J.T. Laitman.** Icahn School of Medicine at Mount Sinai, Rio de Janeiro State University (UERJ), Brazil and Federal University of the State of Rio de Janeiro (UNIRIO), Brazil.
- E115** LB504 Morphological Analysis and Apoptosis Expression in Experimental Cerebral Ischemia Associated with Alcoholism Model. **J.P. da Silva, D.P.d.C. Tirapelli, M.d.F.G. Tazima, M.L.d.A. Cirino, F.R. Tavares Neto, P.C. Novais, G.S. Bisson, F.S. Lizarte Neto, B.O. Colli, C.G. Carlotti Junior, L.F. Tirapelli.** Ribeirão Preto Medical School, Brazil.
- E116** LB505 Morphological Variations of the Ovine Heart Interatrial Septum. **M.K. Holda, J. Holda, K. Tyrak, W. Klimek-Piotrowska.** Department of Anatomy and Jagiellonian University Medical College, Poland.
- E117** LB506 The Pulmonary Valve Anatomy and Morphometry. **J. Holda, M.K. Holda, K. Tyrak, W. Klimek-Piotrowska.** Jagiellonian University Medical College, Poland.
- E118** LB507 Preserving Skeletal Anatomical Structures from Cadaveric Specimens to Enhance the Anatomy Education with Emphasis in Arthrology. **C. Rodriguez, A. Fossas, W.R. Veras.** Universidad Central del Caribe.

LATE BREAKING: ANATOMY EDUCATION

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

Presentation time: 12:00 PM–2:00 PM

Authors at boards:

Odd board #: 12:00 PM–1:00 PM

Even board #: 1:00 PM–2:00 PM

Board# Pub#

- E119** LB508 Live Section of the Brain. **D. Bobinac, T. Celic, M. Bobinac.** Faculty of Medicine and University of Rijeka, Croatia.
- E120** LB509 Using a Virtual Reality Laboratory to Identify Methods for Improving Neuroanatomy Learning. **S. Shermion, R. Stout.** New York Institute of Technology College of Osteopathic Medicine.
- E121** LB510 A Student-Centered, Active Learning Approach to Teaching Spinal Cord Anatomy. **Z. Nassrallah, M. Frankfurt, R.V. Hill.** Donald and Barbara Zucker School of Medicine at Hofstra/Northwell.
- E122** LB511 Does a Self-Paced, Fixed-Time, Laboratory Examination Improve Anxiety and Performance Among Undergraduate Students? **D.C. Bentley.** University of Toronto, Canada.
- E123** LB512 Next-Generation Teaching of Microscopic Anatomy Based on a Comprehensive Collection of High-Resolution, Three-Dimensional (3D), Focusable Histologic Virtual Slides. **H-G. Frank, S. Miltz, A. Mayerhofer, C. Schmitz.** Ludwig-Maximilian University of Munich, Germany.
- E124** LB513 Using an Efficient Narrative Assessment Method to Expand Anatomy Lab Dissection Feedback. **M.X. Zhang, S.E. Blutt, G. Yarneau, R. Reddy, C. Goodman, N. Ismail, J.X. Purkiss.** Baylor College of Medicine.
- E125** LB514 Rediscovery of Forgotten Structures Inside Mucosa of Uterine Tubes—Lymphatic Lacunae—and Their Possible Role in Reproduction. **I. Varga, D. Kachlik, M. Miko, M. Ziskova, L. Danisovic.** Comenius University, Faculty of Medicine, Institute of Histology and Embryology, Slovakia, Charles University, Second Faculty of Medicine, Institute of Anatomy, Czech Republic, Comenius University, Faculty of Medicine and Institute of Medical Biology, Slovakia.
- E126** LB515 Václav Trnka—The Story of an Almost Forgotten Czech-Austria-Slovakia-Hungarian Anatomist of the 18th Century, a Founder of Modern Anatomy Education in Hungary. **I. Varga, M. Repka, D. Kachlik, A. Szekely.** Comenius University, Faculty of Medicine, Institute of Histology and Embryology, Slovakia, Charles University, Second Faculty of Medicine, Institute of Anatomy, Czech Republic and Semmelweis University, Faculty of Medicine, Institute of Anatomy and Histology and Embryology, Hungary.
- E127** LB516 Does a Curriculum-Targeted, Dissection-Based Laboratory Workbook Influence Student Learning Outcomes in Undergraduate Human Anatomy? **J. Valencia, S. McWatt, L. Jadeski.** The University of Guelph, Canada.
- E128** LB517 Developing a Sensible Paradigm for Compressed Training in Gross Anatomy in the First Year of Medical School. **S. Zill.** Joan C. Edwards School of Medicine.

- E129** LB518 Student vs Faculty Assessment on a Cadaver Handoff and Its Correlation to Practical Grades. **C. Elzie, D. Glen, J. Krimsier, K. Van Winkle.** Eastern Virginia Medical School.
- E130** LB519 Body Painting Promotes Significant Learning in Teaching Human Anatomy. **J.E.F. Barreto, M.L.B. Lima, F.O.R. Freitas, H.B. Pimenta, J.N.F.M. Gusmão, B.F.A. Amora Silva, G.S. Cerqueira.** Post-Graduate Program in Morphofunctional Sciences, Faculty of Medicine Federal University of Ceará, Brazil, Programa de Pós-graduação em Ciências Morfofuncionais da Universidade Federal, Brazil and University of Fortaleza, Brazil.

LATE BREAKING: CARDIOVASCULAR BIOLOGY

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

Presentation time: 12:00 PM–2:00 PM

Authors at boards:

Odd board #: 12:00 PM–1:00 PM

Even board #: 1:00 PM–2:00 PM

Board# Pub#

- E131** LB520 Evaluation of Physical Exercise by Swimming Previously to Myocardial Infarction. **H.B. Pimenta, J.d.S. Braga Neto, M.L. Barbosa, K.M. Moreira, A. Araújo, F. Dias Neto, Y. Costa, G. Da Silva, A. Carvalho, A. Andrade Junior, A. Andrade, C. Costa, M. Da Silva, C. Aschidamini, G. Cerqueira, J.R. De Godoy.** Universidade do Estado do Amazonas, Brazil, Unifersidade Federal do Piauí, Brazil, Universidade Federal do Ceará, Brazil and Universidade de Brasília, Brazil.
- E132** LB521 ACE Inhibitor Reaction-Induced Acute Angioedema Leading to Macroglossia: Two Case Studies. **M.J. Kesterke, G. Stigall, R. Carmichael, R. Bhattacharjee, L.V. Reddy.** Texas A&M College of Dentistry.

LATE BREAKING: CELL BIOLOGY

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

Presentation time: 12:00 PM–2:00 PM

Authors at boards:

Odd board #: 12:00 PM–1:00 PM

Even board #: 1:00 PM–2:00 PM

Board# Pub#

- E133** LB522 MTORC1 Controls GSK3 β Nuclear Localization. **C.N. Antonescu, S. Bautista, I. Boras, A. Vissa, N. Mecica, C.M. Yip, P. Kim.** Ryerson University, Canada, University of Toronto, Canada and The Hospital for Sick Children, Canada.
- E134** LB523 Localized Immune Transcriptional Response to Intratumorally Administrated TLR7 Agonist Conjugates. **O.E. Echeagaray-Bredesen, N. Vallez, N. Mendez, C-H. Huang, N. Gude, A. Kummel.** San Diego State University and University of California, San Diego.
- E135** LB524 Assessing the Role of the Gene, *Pebbled*, in *D. melanogaster* ASP Invasive Behavior. **H. Salim, A. Srivastava.** Western Kentucky University.

- E136** LB525 Generation and Partial Characterization of Cancer Cell Lines from Mexican Breast Cancer Patients. **M.L. Valencia, R. De Leon, I.A. Lüthy, A. Angulo, O. Ríos, C.A. Velázquez.** Universidad de Sonora, Mexico, Hospital General del Estado de Sonora Ernesto Ramos Bours, Mexico and Instituto de Biología y Medicina Experimental, Argentina.
- E137** LB526 Differential Diagnosis of Pancreatic Ductal Adenocarcinoma Based on Differential Expression of Select miRNA in Pancreatic Tissue and Plasma. **R.Z. Figueiredo, N.F. Vieira, M.L.A. Cirino, F.S. Lizarte Neto, A.F. Gaspar, D.P.d.C. Tirapelli, A.K. Sankarankutty, R. Kemp, J.S. dos Santos.** Ribeirao Preto School of Medicine, University of São Paulo, Brazil and University of Sao Paulo, Brazil.

LATE BREAKING: DEVELOPMENT AND GROWTH

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

Presentation time: 12:00 PM–2:00 PM

Authors at boards:

Odd board #: 12:00 PM–1:00 PM

Even board #: 1:00 PM–2:00 PM

Board# Pub#

- E138** LB527 Identification of Genetic Mechanisms That Control Limb Bone Proportions During Mammalian Evolution. **A. Saxena, V. Sharma, H. Gutierrez, J. Erberich, F. Tan, M. Hiller, K. Cooper.** University of California, San Diego and Max Planck Institute of Molecular Cell Biology and Genetics, Germany.
- E139** LB528 Mechanism of FGF-Mediated Lhx2 Upregulation. **N. Shah, B. Watson, C. Pira, K. Oberg.** Loma Linda University School of Medicine.
- E140** LB529 Quantifying the Genotype to Phenotype Map in Developing Mice. **H.A. Richbourg, N. Young, R. Takenaka, R. Marcucio.** University of California, San Francisco.
- E141** LB530 The Activity of Lhx2-Associated Cis Regulatory Modules. **C.G. Mulder, B.A. Watson, C.U. Pira, A. Shin, K.C. Oberg.** California Baptist University and Loma Linda University School of Medicine.

LATE BREAKING: EVOLUTION AND COMPARATIVE ANATOMY

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

Presentation time: 12:00 PM–2:00 PM

Authors at boards:

Odd board #: 12:00 PM–1:00 PM

Even board #: 1:00 PM–2:00 PM

Board# Pub#

- E142** LB531 The Evolution of Underwater Flight in Manta Rays and Their Relatives (Myliobatidae). **K.C. Hall, P. Hundt, J. Swenson, A. Summers, K.D. Crow.** San Francisco State University, University of Minnesota and University of Washington.
- E143** LB532 Muscle Fiber-Type Composition of Primates in Relation to Brain Size. **K.M. Omstead, M.N. Muchlinski, H.W. Hemingway, A.M. Burrows.** Duquesne University and University of North Texas.

LATE BREAKING: IMAGING

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

Presentation time: 12:00 PM–2:00 PM

Authors at boards:

Odd board #: 12:00 PM–1:00 PM

Even board #: 1:00 PM–2:00 PM

Board# Pub#

- E144** LB533 Comparison of Inter-Observer Bias Between Low Resolution and High Resolution Scans Using 3T and 7T Scanners. **C.M. Faries, M. Willeminck, Z. Fayad, P. Faries, C. Calcagno.** Icahn School of Medicine at Mount Sinai.
- E145** LB534 Virtual Reality for Surgical Training and Preoperative Planning. **N. Pather, N. Birbara, S. Sobhanmanesh, J. Otton.** University of New South Wales, Australia.
- E146** LB535 *Homarus gemmarus*: Seriated CT-Scan and Reconstructions: Horizontal, Sagittal and 3D. **P.P. Le Floch-Prigent, S. Verdeille.** Paris-Ouest School of Medicine, France and Clinique Bizet, France.
- E147** LB536 *Prionace glauca* (Pole Shark): Seriated CT-Scan and Reconstructions: Horizontal, Sagittal and 3D. **P.P. Le Floch-Prigent, S. Verdeille.** Paris-Ouest School of Medicine, France and Clinique du Val d'Or, France.

LATE BREAKING: MUSCLE

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

Presentation time: 12:00 PM–2:00 PM

Authors at boards:

Odd board #: 12:00 PM–1:00 PM

Even board #: 1:00 PM–2:00 PM

Board# Pub#

- E148** LB537 Capillary Density and Succinate Dehydrogenase in Skeletal Muscle on Chronic Kidney Disease Rats. **S. Murakami, M. Sakita, M. Huo, H. Kondo, S. Hayashi, K. Kameyama, H. Fujino.** Himeji Dokyo University, Japan, Kyoto Tachibana University, Japan, Nagoya Women's University, Japan, Okayama University Graduate School of Medicine, Japan, Hakuohkai Medical Technical School, Japan and Kobe University Graduate School of Health Sciences, Japan.

LATE BREAKING: NEUROBIOLOGY

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

Presentation time: 12:00 PM–2:00 PM

Authors at boards:

Odd board #: 12:00 PM–1:00 PM

Even board #: 1:00 PM–2:00 PM

Board# Pub#

- E149** LB538 Structural Plasticity Analysis of *Drosophila* Sleep Circuit After Thermogenetic Sleep Deprivation. **Y. Velazquez, C. Dubowy, A. Sehgal.** University of Puerto Rico at Ponce, Puerto Rico and University of Pennsylvania.

E150 LB539 Exploring Molecular Mechanisms of Stress Susceptibility After Traumatic Brain Injury Using *Drosophila* as a Model Organism. **L. García-Rivera, J. Saikumar, N. Bonini.** University of Puerto Rico at Mayaguez, Puerto Rico and University of Pennsylvania.

E151 LB540 Serum Brain-Derived Neurotrophic Factor Promotes Repair and Regeneration of Aged Myelinated Fibers via Aerobic Exercise. **M. Sakita, S. Murakami, W. Isoe, K. Kameyama, S. Hayashi, H. Fujino.** Kyoto Tachibana University, Japan, Himeji-Dokkyo University, Japan, Kyoto Tachibana University Graduate School of Health Sciences, Japan, Hakuohkai Medical Technical School Ako, Japan, Okayama University Graduate School of Medicine, Japan and Kobe University Graduate School of Health Sciences, Japan.

E152 LB541 The Effect of Toll-Like Receptor-4 on the Behavioral Impairment in a β 1-42 Induced AD Mouse Model. **F. Hua, W. Zhang, D. Kong, Y. Zhou, J. Han, G. Jin.** Xuzhou Medical University, People's Republic of China.

E153 LB542 Global Expression of MicroRNAs in Neurospheres in Primary Cultures of Glioblastoma Treated with Temozolomide and Ionizing Radiation. **M.L.d.A. Cirino, A.R. Rodrigues, T.S. Sabedot, F.S. Lizarte Neto, R. Pugliesi, F.M. Peria, G.S. Bisson, H. Noushmehr, D.G. Tiezzi, C.G. Carlotti Junior, D.P.d.C. Tirapelli.** Ribeirão Preto Medical School and University of São Paulo, Brazil.

E154 LB543 The Effects of 5-Fluorouracil/Leucovorin Chemotherapy on Cognitive Function in Mice. **T. Groves, T. Alexander, J. Anderson, F. Kiffer, A. Allen.** University of Arkansas for Medical Sciences.

E155 LB544 Expression of MicroRNAs Associated with Apoptosis in Neurospheres of Glioblastoma Cell Line Subjected to Treatment with Ionizing Radiation and Temozolomide. **V.S. Schiavoni, A.R. Rodrigues, M.L.d.A. Cirino, F.S. Lizarte Neto, L.P.d.C. Lourenço, F.M. Peria, G.S. Bisson, D.G. Tiezzi, L.F. Tirapelli, C.G. Carlotti Junior, D.P.d.C. Tirapelli.** Ribeirão Preto Medical School, Brazil.

E156 LB545 The Functional Organization and Integration of Purkinje Cells in the Cerebellum. **D.G. Heck, A. Person, S. Fukushima.** University of Colorado Anschutz Medical Campus.

LATE BREAKING: REGENERATIVE MEDICINE, STEM CELLS, WOUND HEALING & BIOENGINEERING

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

Presentation time: 12:00 PM–2:00 PM

Authors at boards:

Odd board #: 12:00 PM–1:00 PM

Even board #: 1:00 PM–2:00 PM

Board# Pub#

E157 LB546 Endurance Exercise Training Protects Against the Upregulation of Nitric Oxide in the Striatum of MPTP/Probenecid Mouse Model of Parkinson's Disease. **Z.M. Bataineh.** Jordan University of Science and Technology, Jordan.

E158 LB547 Inhibitory Synergistic Effect of 830nm Laser Radiation and Serum-Rich in Growth Factors on Viability of Human Fibroblasts in Vitro. **M. Rondine, C.S.T. Amaral, N.A. Parizotto, A.C. Amaral.** Universidade de Araraquara—UNIARA, Brazil.

E159 LB548 An Evolutionary Conserved RNA Replication Stress Response in Planarian. **U. Shamoony, R. Tirgar, L. Akpati, N. Sawyer, E. Nam.** University of St. Thomas.

E160 LB549 Differentiation of Adipose-Derived Stem Cells into Urothelial and Smooth Muscle Cell Lines Within the Structure of Collagen/Hyaluronan Scaffold. **M. Galambosova, S. Ziaran, Z.V. Novakova, A. Nicodemou, I. Varga, L. Danisovic.** Faculty of Medicine, Comenius University in Bratislava, Slovakia.

E161 LB550 Characterization of Artificial Tumor-Derived Monolayers from Long-Term MCF-7 Breast Adenocarcinoma Constructs Using Flow Cytometry and Immunocytological Analysis. **T. Lyden, S. Topel, H. Thueson.** University of Wisconsin—River Falls.

E162 LB551 Induced Pluripotent Stem Cells Derived from Different Tissue Sources and Their Prospect for Osteochondral Regeneration. **L. Danisovic, M. Csobonyeiova, Z.V. Novakova, A. Nicodemou, I. Varga.** Faculty of Medicine, Comenius University in Bratislava, Slovakia.

Biochemistry and Molecular Biology

GENOME DYNAMICS: DNA REPLICATION, REPAIR AND RECOMBINATION

WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION

Presentation time: 12:15 PM–2:00 PM

Authors at boards:

Board # ending in 0, 3 or 6, 11:45 PM–12:30 PM

Board # ending in 1, 4, 7 or 9, 12:15 PM–1:00 PM

Board # ending in 2, 5, or 8, 1:15 PM–2:00 PM

Board# Pub#

LB1 LB1 Expanding the Horizon of Recombination Repair in Mycobacteria: Identification and Characterization of Novel Proteins. **A. Singh.** Indian Institute of Science, India.

LB2 LB2 Construction of Plasmids to Make a Specialized *S. cerevisiae* Strain to Investigate SAW1 Protein Recruitment in Single-Strand Annealing Repair. **Y. Rakibova, A. Alon, P. Fischhaber.** California State University, Northridge.

LB3 LB3 Novel Substrates for DNA Cytidine Deaminase APOBEC3B with Possible Implications for Alkylating Agent Chemotherapy. **J. Chapman, M. Custance, B. Shen, A.V. Furano.** National Institute of Diabetes and Digestive and Kidney Diseases, National Institutes of Health.

LB4 LB4 Mitochondrial RNA Damage and Impaired Iron Homeostasis in Muscle Aging. **A. Picca, R. Mankowski, R. Calvani, E. Marzetti, C. Leeuwenburgh.** Catholic University of the Sacred Heart, Teaching Hospital Agostino Gemelli, Italy, Institute on Aging, Division of Biology of Aging and University of Florida.

LB5 LB5 Mechanistic Comparison of Human RNA Ligases I and III. **P. O'Brien.** University of Michigan.

LB6 LB6 Tumor Suppressor Protein PALB2 Has Strand Exchange Activity Independent of Recombinase RAD51 **J. Deveryshetty, L. Kanikkannan, S. Korolev.** St. Louis University.

CHROMATIN STRUCTURE, REMODELING AND GENE EXPRESSION

WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION

Presentation time: 12:15 PM–2:00 PM

Authors at boards:

Board # ending in 0, 3 or 6, 11:45 PM–12:30 PM

Board # ending in 1, 4, 7 or 9, 12:15 PM–1:00 PM

Board # ending in 2, 5, or 8, 1:15 PM–2:00 PM

Board# Pub#

LB7 LB7 Saturated Fat-Enriched Diet Decreases SIRT1 Expression in the Mouse Hippocampus—The Sirtain Effects of Saturated Fat in the Brain. **G. Marwarha, O. Ghribi.** University of North Dakota School of Medicine and Health Sciences.

LB8 LB8 RNF20 Regulates Adipocyte Differentiation Through Modulating PPAR γ . **Y. Jeon, J. Lee, J. Kim.** Seoul National University, Republic of Korea.

LB9 LB9 Identification of a Novel Enhancer/Chromatin Opening Element Associated with High-Level γ -Globin Gene Expression. **M. Bassett, Y. Shen, M. Hossain, C. Guy, R. Nar, A. Gurumurthy, J. Bungert.** University of Florida, Harvard Medical School and Ahi Evran Üniversitesi, Turkey.

LB10 LB10 Relationship Between Nucleic Acid Structures and Sequences on the Expression of Terminal Differentiation (i.e., Denucleation): Alternative Cell Death Pathway. **C.E. Gagna, M.R. Gupta, A.E. Haidery, U.R. Mughal, T.E. Beague, A.E. Pillay, A.A. Sattar, P. Lambert, W.C. Lambert.** New York Institute of Technology and Rutgers New Jersey Medical School.

LB11 LB11 Genetic Correction of Structural Variations in Patient-Derived iPSCs Using CRISPR/Cas9. **C-Y. Park, D-W. Kim.** Yonsei University College of Medicine, Republic of Korea.

LB12 LB12 Hyperinsulinemia-Induced Changes in Chromatin Acetylation in Triple Negative Breast Cancer. **P. Senapati, J. Cordova, D.K. Ann, V. Seewaldt, D.E. Schones.** Beckman Research Institute of City of Hope.

LB13 LB13 P53 Mediated Regulation of Coactivator Associated Arginine Methyltransferase 1 (CARM1) Expression Is Critical for Suppression of Adipogenesis. **A.K. Behera, A. Bhattacharya, M. Vasudevan, T.K. Kundu.** Jawaharlal Nehru Centre for Advanced Scientific Research, India and Bionivid Technology Private Limited, India.

LB14 LB14 The Role of Yeast RNA Polymerase I Initiation Factor Core Factor Subunit Rrn7 in Promoter Open Complex Formation. **A.J. Jackobel, Y. Han, Y. He, B.A. Knutson.** State University of New York Upstate Medical University and Northwestern University.

LB15 LB15 Yeast RNA Polymerase I Core Factor Binds to the Ribosomal RNA Promoter Through the GC Minor Groove. **D.M. Glover, A.J. Jackobel, B.A. Knutson.** State University of New York Upstate Medical University.

LB16 LB16 Reconstitution of RNA Polymerase I Upstream Activating Factor and the Roles of Histones H3 and H4 in Complex Assembly. **B.A. Knutson, M.L. Smith, W. Cui, A.J. Jackobel, N.A. Walker-Kopp.** State University of New York Upstate Medical University and Washington University in St. Louis.

LB17 LB17 Differential Expression of PPAR γ and Chop-10 During Adipogenic Differentiation of Human Bone Marrow Derived Mesenchymal Stem Cells. **R.M.I.K. Rony, B.E. Hull, K. Excoffon, J.E. Ramirez-Vick.** Wright State University.

RNA: PROCESSING, TRANSPORT, AND REGULATORY MECHANISMS

WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION

Presentation time: 12:15 PM–2:00 PM

Authors at boards:

Board # ending in 0, 3 or 6, 11:45 PM–12:30 PM

Board # ending in 1, 4, 7 or 9, 12:15 PM–1:00 PM

Board # ending in 2, 5, or 8, 1:15 PM–2:00 PM

Board# Pub#

LB18 LB18 High Throughput Validation of Orphan Riboswitch Candidates. **G. Mirihana Arachchilage, M.E. Sherlock, N. White, S.S. Panchapakesan, R.R. Breaker.** Howard Hughes Medical Institute, Yale University and Yale University.

LB19 LB19 Z-Band and M-Band Titin Splicing and Regulation by RBM20 in Striated Muscles. **M. Rexiati, Z. Chen, C. Zhu, H. Cai, A. Stern, P. Mozdziak, Y. Ge, S.P. Ford, P.W. Nathanielsz, W. Guo.** University of Wyoming, North Carolina State University and University of Wisconsin.

LB20 LB20 Identification of CRISPR-Cas9 Mutants in *Arabidopsis* Glutaredoxin Genes *AtGrxS11*, *AtGrxS6*, and *AtGrxS3/4/5/7/8* Gene Cluster. **F. Fernandez, K. Sanchez, M. Escobar.** California State University, San Marcos.

LB21 LB21 Co-Transcriptional Folding of a Riboswitch Controls the Fate of the Transcriptional Machinery. **N.G. Walter.** University of Michigan.

LB22 LB22 Simultaneous Stabilization of Protein and RNA from a Single Tissue Homogenate. **N.L. Pirman.** MilliporeSigma.

LB23 LB23 Studying Stimulus-Induced Changes in RNA Dynamics by Mutational Mapping Through Timelapse-Seq. **L. Kiefer, J.A. Schofield, M.D. Simon.** Yale University.

LB24 LB24 Role of Viral RNA in Virion Stability and Disassembly. **G. Anand, X.X. Lim, R. Ramesh, P.V. Raghuvamsi.** National University of Singapore, Singapore.

PROTEIN SYNTHESIS, STRUCTURE, MODIFICATIONS AND INTERACTIONS

WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION

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Board # ending in 2, 5, or 8, 1:15 PM–2:00 PM

Board# Pub#

LB25 LB25 RhBi-S₂H as a Potential Novel Hydrogen Sulfide Donor. **A. Reyes Oliveras, H. Borges Arias, J. López-Garriga.** University of Puerto Rico at Mayaguez, Puerto Rico.

LB26 LB26 Translational Control and the Integrated Stress Response Regulate the Fate of UVB-Irradiated Human Keratinocytes. **R.C. Wek, A.E. Collier, D.F. Spandau.** Indiana University School of Medicine.

LB27 LB27 Abrin, a Type II Ribosome Inactivating Protein: Differential Cytotoxicity and Development of the Vaccine Against Its Lethality. **V. Tiwari, A.A. Karande.** Indian Institute of Science, India.

LB28 LB28 Mechanism of an Anticancer Peptide Rescuing p53 from Degradation by COP1. **M. Gao, Y. Huang.** Hubei University of Technology, People's Republic of China.

LB29 LB29 Characterizing the Interactions Between Intrinsically Disordered Transactivation Domains and the KIX Domain. **J. Xiong, Y. Huang.** Hubei University of Technology, People's Republic of China.

LB30 LB30 Hypo-Phosphorylated HNRNPK Promotes Migration of Triple Negative Breast Cancer Cells Through an Aurora-A-Independent Manner. **H-Y. Tsai, C-H. Lin.** National Yang-Ming University, Taiwan.

LB31 LB31 XCDxCDx-PHD, a Distinct Type of PHD-Finger. **S. Basu, D. Boamah, F.A. Poppinga, T. Lin, S. Chakravarty.** South Dakota State University.

LB32 LB32 Terminal Sequences in the M Protein of Bovine Parainfluenza Virus Type 3 Is Important for Virus Egress. **H. Ueda.** University of Tsukuba, Japan.

LB33 LB33 Effect of Acetylation on Liquid-Liquid Phase Separation and Amyloid Fibril Formation of Tau. **Z. Zhao, M. Gao, Y. Huang.** Hubei University of Technology, People's Republic of China.

LB34 LB34 Acetylation of Lysine Residues Within the MT-Binding Repeats Specifically Modulates the Structure Ensemble of Tau. **Z. Yao, M. Gao, Y. Huang.** Hubei University of Technology, People's Republic of China.

LB35 LB35 The Promoting Role of HNRNPK-DDX3 Interaction in the Apoptosis Upon DNA Damage. **C-C. Chen, J-H. Yang, C-H. Lin.** National Yang-Ming University, Taiwan.

LB36 LB36 Computational Studies on HdeA and Its pH-Dependent Activation. **S. Pacheco, A. Ravinder.** California State University, Northridge.

LB37 LB37 Engineered Bacterial Tight Junctions: A High-Throughput Method to Identify Absorption Enhancers. **J. Rollings, T. Worthington, D. Mizrahi.** Brigham Young University.

LB38 LB38 Structural Characterization of Vitiligo Associated T Cell Receptor: Towards the Development of Improved Melanoma Immunotherapy. **A.R. Smith, J.M. Eby, C.M. Ankney, C. Cosgrove, S.W. Henning, M.I. Nishimura, C. Le Poole, B.M. Baker.** University of Notre Dame, Loyola University Chicago and Lurie Comprehensive Cancer Center.

- LB39** LB39 Molecular Dynamics Study of the Effect of Multi-Target Compounds Binding onto BACE1. **M. Zahran, J. Guevara, A. Martinez.** New York City College of Technology and City University of New York.
- LB40** LB40 A Review-Structure-Function Studies of Abrin: A Ribosome Inactivation Toxin. **S. Singh.** DAV University, India.
- LB41** LB41 Crystal Structure of an Assembly Intermediate of Respiratory Complex II. **P. Sharma, E. Maklashina, G. Cecchini, T. Iverson.** Vanderbilt University and University of California, San Francisco, School of Medicine.
- LB42** LB42 *Pinning Down Psi^+* Inducibility. **T.M. Brechtel, J. Villali, J. Davis, F. Pei, S.S. Sindi, T.R. Serio.** University of Arizona, Brown University, University of California, Merced and University of Massachusetts, Amherst.
- LB43** LB43 Elucidating the Role of a π -Helical Region in a Thermophilic Enzyme from a Glycosyl Hydrolase Family. **S.S. Jewlikar, S. Mohapatra, N. Manoj.** Indian Institute of Technology Madras, India.
- LB44** LB44 Structure of Flexible Proteins Using Scattering and Simulation. **L. Petridis.** Oak Ridge National Laboratory.
- LB45** LB45 H_2S -Induced Structural Changes of Insulin Protein in Early Lag Phase: Key to Detaining Amyloid Formation. **D.A. Colon-Rios, A. Aldarondo-Torres, M.F. Rosario-Alomar, J. Lopez-Garriga.** University of Puerto Rico at Mayaguez, Puerto Rico and University at Albany.
- LB46** LB46 Electromyostimulation with Blood Flow Restriction Enhances Activation of mTOR and MAPK Signalling Pathways in Rat Gastrocnemius Muscles. **T. Natsume, T. Yoshihara, H. Naito.** Juntendo University, Japan.
- LB47** LB47 The Evolution of Heterocomplexation and Multifunctionality in the S100 Protein Complex Calprotectin. **J. Harman, A. Loes, R. Shi, M. Heaphy, M. Harms.** University of Oregon.
- LB48** LB48 *Ganoderma lucidum* Extract Decreases Inflammatory Breast Cancer Progression via Translational Control. **D.M.M. Martinez-Montemayor, D.R.J. Schneider, D.C. Zhang, D.J. Andrade, D.I.J. Suarez-Arroyo.** Universidad Central del Caribe School of Medicine, New York University School of Medicine and The University of Chicago.
- LB49** LB49 The C-Terminus of CsgE Is Involved in Preventing Protein Aggregation. **I. Aranda, A. Binmahfooz, K. Kaur, H. Rabi, L. Yeh, S. Jayasinghe.** California State University.
- LB50** LB50 PKA $\text{RI}\alpha$ Holoenzyme Crystal Structure Reveals Its Allosteric Regulation and Carney Complex Disease Implications. **T-W. Lu, J. Wu, L. Ahuja, P. Aoto, N. Sun, S. Taylor.** University of California, San Diego.
- LB51** LB51 Structural Characterization of Human Uridine Monophosphate Synthase (UMPS) and Its Spatio-Temporal Localization in Cells. **D.M. Kim-Holzzapfel, J. French.** Stony Brook University.
- LB52** LB52 PFAR Purification Strategy and Structure Analysis. **M.C. Ortiz-Rosario, C. Rullán-Lind, M. Pérez-Oquendo, Y. Morales-Lozada, R. González-Méndez, A. Baerga-Ortiz.** University of Puerto Rico, Medical Sciences Campus, Puerto Rico and University of Puerto Rico, Rio Piedras Campus, Puerto Rico.
- LB53** LB53 Spa47 Oligomerization Plays a Key Role in ATPase Activation and Function in the *Shigella* Type III Secretion System. **J.L. Burgess, R.A. Burgess, N. Dickenson.** Utah State University.
- LB54** LB54 MXin Differentially Regulates Monomeric and Oligomeric Species of the *Shigella* Type Three Secretion System ATPase Spa47 **H. Case, N. Dickenson.** Utah State University.
- LB55** LB55 Mechanistic Insight into Species-Specific Redox Partner Interactions in the Vitamin D Carbon-24 Hydroxylase CYP24A1 **A. Kumar, D.F. Estrada.** University at Buffalo.
- LB56** LB56 Spatial Organization of a cAMP/ Ca^{2+} -Regulated Signaling Complex: A Solution Structural Small-Angle X-Ray and Neutron Scattering Study of an AKAP79-Scaffolded Complex Containing Type II β PKA and Calcineurin. **J. Hail, J. Copps, P. Zhang, A. Heck, D. Blumenthal, S. Taylor.** University of California, San Diego, The Scripps Research Institute, National Institutes of Health, Utrecht University, Netherlands and University of Utah.
- LB57** LB57 Characterization of a Novel S-Adenosylmethionine-Dependent Methylase by Electron Paramagnetic Resonance and Mössbauer Spectroscopies. **M. Radle, J. LaMattina, S. Booker.** Penn State.
- LB58** LB58 Thermodynamics of the Interactions of FG-Nucleoporins and Transport Factors. **S. Sparks, R. Hayama, M.P. Rout, D. Cowburn.** Albert Einstein College of Medicine and The Rockefeller University.
- LB59** LB59 Curli Proteins CsgE and CsgF Inhibit the Aggregation of Human Islet Amyloid Polypeptide. **N. Khan, M. Arlantino, E. Feliciano, H. Nguyen, S. Jayasinghe.** California State University.
- LB60** LB60 Investigating Peptide Assembly in a Membrane Environment. **M. Gessel, M. Kober, Z. Maxwell, S. Swain.** University of Puget Sound.
- LB61** LB61 Interactive 3D Graphs Alongside Atomic Resolution Macromolecular Structures in the VR Space. **A. Tran, Z. Zheng, J. Rohrer, S. Martins, Z. Radic.** University of California, San Diego and Nanome Inc.
- LB62** LB62 Structural Dynamics of Blue Light Sensitive Bacterial Photoreceptor BlsA. **I. Chitrakar, J. French.** Stony Brook University.
- LB63** LB63 *In Silico* Molecular Docking of Fisetin with the Amyloidogenic Peptides Human Amylin and A β 42 **J.A. Villanueva, T. Bamigboje, S.K. Hari, A. Boluwaduro, S. Gautham, A. Ibrahim.** International American University College of Medicine, Saint Lucia.
- LB64** LB64 Hydration Mediated G-Protein-Coupled Receptor Activation. **N. Weerasinghe, S.D. Fried, S.M. Perera, U. Chawla, M.F. Brown.** University of Arizona.
- LB65** LB65 Aggregated CsgA Does Not Form In-Register Parallel Structures. **M. Basham, C. Guevarra, O. Meza-Barajas, S. Jayasinghe, G. Godfrey.** California State University.

ENZYME CHEMISTRY AND CATALYSIS

WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION

Presentation time: 12:15 PM–2:00 PM

Authors at boards:

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- LB66** LB66 Organophosphate Hydrolase (OPH) Designed as a Functional Monomer. **C. Baker, J. Santiago Garcia, R. Sweeney, S. Kirby.** U.S. Army Medical Research Institute of Chemical Defense.

- LB67** LB67 Characterization of Genetically Modified Mice as Improved Animal Models for Organophosphorus Nerve Agent Research. **S. DeBus, E.N. Dunn, E.M. Matson, K.S. Morgan, J.H. McDonough, D.M. Cerasoli, C.L. Cadieux.** U.S. Army Medical Research Institute of Chemical Defense.
- LB68** LB68 Mimicking the Activation of the ADP-Glucose Pyrophosphorylase from *Agrobacterium tumefaciens* by Site Directed Mutagenesis. **M. Alghamdi, R. Hussien, H. Patel, E. Dobrzynski, A. Iglesias, M. Ballicora.** Loyola University of Chicago and Universidad Nacional del Litoral, Argentina.
- LB69** LB69 Structural Insights into Mitochondrial ENDOG in Response to Oxidative Stress. **H.S. Yuan, J.L.J. Lin, W-C. Chu.** Academia Sinica, Taiwan and National Yang-Ming University, Taiwan.
- LB70** LB70 Calcium-Induced Apoptosis in Cultured, Primary Corneal Endothelial Cells from Monkey. **E. Nakajima, E.K. Gleason, R.D. Walkup, T.R. Shearer, M. Azuma.** Senju Pharmaceutical Co., Ltd. and Oregon Health & Science University.
- LB71** LB71 Preliminary Characterization of Desulfinate DszB for Use in High-Throughput Validation of DszC Mutant Proteins. **M. Sanchez, S. Truong.** California State University, Northridge.
- LB72** LB72 The Production of an Antimicrobial Compound by Plant-Mediated Bioreduction of Benzofuranyl Methyl Ketone. **N.Y. Cheatwood, M.Y. Harris.** Stephen F. Austin State University.
- LB73** LB73 Dynamics and Bifunctional Substrate Activation by an Arginine Drive Catalysis in Plant Chalcone Isomerases. **J. Burke, J. Noel.** Salk Institute.
- LB74** LB74 Determining Invertase Enzyme Activity Using Isothermal Titration Calorimetry. **D. Chan, J. Anderson, J. Kenealey.** Brigham Young University.
- LB75** LB75 The Effects of Ethanol Extract of Peros *Punica granatum* L. Peel on the Oxidative Damage Induced by Diabetes in Rats. **A.D. Ömür, B.D. Apaydin Yildirim.** Atatürk University, Turkey.
- LB76** LB76 *In-Silico* Comparative Structural Analysis of Human and Murine Cyclooxygenase-2 (COX-2). **S.K. Hari, A. Boluwaduro, S. Gautham, J.A. Villanueva.** International American University, College of Medicine, Saint Lucia and International American University College of Medicine, Saint Lucia.
- LB79** LB79 Utilizing Structure-Activity Relationships to Design Non-Oxime Reactivators. **C.L. Cadieux, Z. Canter, K. Martin, M. Hepperle, D.M. Cerasoli.** U.S. Army Medical Research Institute of Chemical Defense.
- LB80** LB80 The Structural Diversity and the Biological Meaning of Antibody. **E. Hifumi, Y. Akiyoshi, T. Uda.** Oita University, Japan, Institute of Systems and Information Technologies and Nanotechnologies (ISIT), Japan.
- LB81** LB81 Isolation, Characterization, and Synthesis of Cuticular Hydrocarbon Natural Products from *Drosophila athabasca*, a Species of Evolutionary Interest. **J.F. Shuler, N. Lin, B.L. Gay, R. Yukilevich, J.D. Kehlbek.** Union College.
- LB82** LB82 Characterization and Evaluation of ROS-Containing Photosystem I Light-Harvesting Complex I (PSI-LHCI) Isolated from the Green Microalga *Botryococcus braunii* as a Potential Anticancer Drug. **F.M. Joaquín Ovalle, G. Guihurt, V.C. Barceló-Bovea, J. Ramirez-Paz, K. Doble, A. Hani Saba, K. Griebenow.** University of Puerto Rico—Río Piedras Campus, Puerto Rico.
- LB83** LB83 Multi-Wavelength Analytical Ultracentrifugation of Human Serum Albumin Complexed with Porphyrin. **C.N. Johnson, G.E. Gorbet, H. Ramsower, J. Uriquidi, L. Brancaleon, B. Demeler.** The University of Texas Health Science Center at San Antonio and University of Texas at San Antonio.
- LB84** LB84 Method Validation of Analytical Method for Determination of Extracts of Rosemary in Various Food Matrix. **S-H. Choi, G-W. Jang, S-I. Choi, T-D. Jung, B-Y. Cho, X. Han, W-S. Sim, Y-C. Kim, O-H. Lee.** Kangwon National University, Republic of Korea and University of Massachusetts.
- LB85** LB85 Effect of CNTM on High-Fat Diet-Induced Obesity in C57BL/6J Mice. **B-Y. Cho, S-I. Choi, T-D. Jung, S-H. Choi, W-S. Sim, X. Han, M-J. Ra, S-Y. Kim, I-J. Kang, K.C. Han, Y-C. Kim, O-H. Lee.** Kangwon National University, Republic of Korea, Hongcheon Institute of Medicinal Herb, Republic of Korea, Hallym University, Republic of Korea, Hatti Co., Ltd., Republic of Korea, Department of Nutrition and University of Massachusetts.
- LB86** LB86 Analysis of the Food Components and Physiological Activities of *Brassica juncea* from Jeongseon. **W-S. Sim, S-I. Choi, T-D. Jung, B-Y. Cho, S-H. Choi, X. Han, Y-C. Kim, O-H. Lee.** Kangwon National University, Republic of Korea and University of Massachusetts.
- LB87** LB87 Discovery and Characterization of Two Classes of Selective Inhibitors of the Suppressor of TCR Signaling Family of Proteins. **W. Zhou.** Stony Brook University.
- LB88** LB88 Development of Phage Display of Nisin. **K.J. Hetrick, W.A. van der Donk.** University of Illinois at Urbana—Champaign.
- LB89** LB89 Modeling Potential BACE1 Inhibitors. **J. Guevara, M. Zahran, A. Department.** New York City College of Technology and City University of New York.
- LB90** LB90 Evaluating the Pharmacodynamics and Protective Efficacy of Catalytic Bioscavenger Following Subcutaneous Administration in Guinea Pigs. **T. Dao, S. DeBus, M. Boeri, Z. Canter, D. Cerasoli, S. Kasten.** U.S. Army Medical Research Institute of Chemical Defense.
- LB91** LB91 Development of High-Throughput Assays for Testing of Potential Inhibitors of the Oncogenic G12C Mutant of KRAS. **B.G. Vertessy, K. Nyiri, A. Steger, G. Koppány.** Budapest University of Technology and Economics, Hungary.
- LB92** LB92 Stigmasterol Solid-Lipid Nanoparticle Development for Lung Cancer Therapy. **Z. Torres, Y. Delgado, K. Griebenow.** Universidad de Puerto Rico, Río Piedras Campus, Puerto Rico and San Juan Bautista Medical School, Puerto Rico.

CHEMICAL BIOLOGY, DRUG DISCOVERY AND BIOANALYTICAL METHODS

WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION

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Board# Pub#

- LB77** LB77 A Unique Method for Antibody to Possess the Catalytic Function (3rd Report). **T. Uda, Y. Akiyoshi, H. Taguchi, E. Hifumi.** Institute of Systems, Information Technologies and Nanotechnologies (ISIT), Japan, Oita University, Japan and Suzuka University of Medical Science, Japan.
- LB78** LB78 Quorum Sensing-Disrupting Molecules to Control Virulence of *Vibrio vulnificus*, a Fulminating Foodborne Pathogen. **S.H. Choi, B.S. Kim, G. Choi, S.Y. Jang, M.H. Kim.** Seoul National University, Republic of Korea and Korea Research Institute of Bioscience and Biotechnology, Republic of Korea.

- LB93** LB93 Quantitative Method Development and Validation of Naloxone and 6 α -Naloxol from Male African Green Monkey Plasma. **V.V. R. Bandaru, J.N. Vignola, S.R. Litvin, A.M. Packer, A.S. Rizkallah, D.A. Orsini, S.A. Young, S.D. Soni, R.C. diTargiani, M.R. Pennington, B.R. Capacio.** U.S. Army Medical Research Institute of Chemical Defense.
- LB94** LB94 Functional Assignment of Structural Genomics Proteins Through Computed Chemical Properties, Graph Representation of Active Sites, and Biochemical Validation. **C.L. Mills, R. Garg, J.S. Lee, R. Parasuram, L. Tian, A. Suci, G. Cooperman, P. Beuning, M.J. Ondrechen.** Northeastern University.
- LB95** LB95 Structural and Biochemical Characterization of Suppressor of T Cell Receptor Signaling (STS) Proteins. **Y. Yin, W. Zhou, J. Fench.** Stony Brook University.
- LB96** LB96 Coupling Fluorescence-Activated Cell Sorting and Targeted LC-MS/MS for Epi-Proteomic Analysis of Normal Leukocytes. **J. Camarillo, S. Swaminathan, N. Abshiru, J. Sikora, J. Morris, N. Kelleher, P. Thomas.** Northwestern University.
- LB97** LB97 Predicting the Effects of GSTR π Polymorphism on Resistance to Ezatiostat. **K.S. Risbud, A.N. Muwonge, K.M. Frey.** Long Island University Pharmacy.
- LB98** LB98 Assessment of Novel Vitamin D Receptor Antagonists That Mediate Suppression of Vitamin D Signaling. **L.J. Staniszewski, P. Shahani, M. Heck, D.S. Hasan, C. Wagner, P.W. Jurutka.** Arizona State University.
- LB99** LB99 Synthesized-Chlorotoxin-Conjugated Cytochrome C as a Potential Drug for Targeting Glioma. **L.J. Delinois, J. Ramirez-Paz, J.A. González-Feliciano, R. Maldonado-Hernández, V. Barcelo-Bovea, F.M. Joaquin Ovalle, P.F. Fulvio, K. Griebenow.** University of Puerto Rico, Puerto Rico.
- LB100** LB100 Identification of Novel Scaffold for PIM1 Kinase Inhibition by Ligand Based Virtual Screening. **K. Ranganna, O.P. Mathew, S. Milton, R. Thilgavathi, C. Selvam.** Texas Southern University and Karpagam Academy of Higher Education, India.
- LB101** LB101 Chemoinformatics Profiling of the Bioactive Fraction of Bizzy Nut. **W. Gray, O. Philips, C. Telles.** Southern University Baton Rouge.
- LB102** LB102 Computational Design and Experimental Evaluation of Novel Perezone Derivates as Anticancer Agents. **M. Hernández Rodríguez, P. Mendoza Sánchez, E. Mera Jimenez, M.I. Nicolás Vázquez, R. Miranda-Ruvalcaba.** Facultad de Estudios Superiores Cuautitlán, UNAM, Mexico, Escuela Superior de Medicina and Instituto Politécnico Nacional, Mexico.
- LB103** LB103 Reversal of Peripheral and CNS Mediated A1 Adenosine Receptor Hypotension. **B.W. Laughlin, I. Baily, S. Tagaban, K. Drew.** University of Alaska Fairbanks.
- LB104** LB104 Connection Between Antimicrobial Venom Peptides and Bacterial ATP Synthase. **H. Syed, Z. Ahmad.** A. T. Still University.
- LB105** LB105 Computational Analysis of 1,2-Dialkynylpyrroles. **J. Bondoc, S. Kerwin.** Texas State University.
- LB106** LB106 Mass Spectrometry of Bacterial Outer Membrane Enzymes Within the Native Lipid Environment. **M. Esmaili, J. Li, R. Bishop, J. Klassen, M. Overduin.** University of Alberta, Canada and McMaster University, Canada.

GENOMICS, PROTEOMICS AND METABOLOMICS

WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION

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Board# Pub#

- LB107** LB107 Discovering Drug Resistance-Associated Biomarkers from Malignant Pleural Effusion of Lung Cancer by Quantitative Proteomic Approaches. **C-J. Yu, I-C. Chiou, C-L. Wang, T-F. Hsiao.** Chang Gung University, Taiwan and Chang Gung Memorial Hospital, Taiwan.
- LB108** LB108 Mouse Knockout Metabolomics Elucidates Metabolic Functions of Mammalian Genes. **E. Axton, D. Barupal, O. Fiehn.** University of California, Davis.
- LB109** LB109 Rapid Protein Analysis and Western Blotting by Capillary Gel Electrophoresis. **K. Lutgeharm, M. Ver Meer, J. Clair.** Advanced Analytical Technologies, Inc.
- LB110** LB110 Differential Methylation Variability Between Atherogenic and Normal Human Aortas, and Its Association with Mitochondrial Function. **N. Frago-Bargas, M.A. Pescador-Tapia, D. Rodríguez-Ríos, S. Zaina, G. Lund.** Center for Research and Advanced Studies of the National Polytechnic Institute, Mexico, Division of Health Sciences and León Campus University of Guanajuato, Mexico.
- LB111** LB111 Amyloids and Pre-Amyloids from the PDB. **V. Grolmusz, K. Takacs, B. Varga.** Eotvos University, Hungary.
- LB112** LB112 Genome-Wide Analysis of Single Nucleotide Variants on Phosphorylation Motifs. **H. Yoshizaki, Y. Ling, M. Kohno, S. Okuda.** Kanazawa Medical University, Japan and Niigata University, Japan.
- LB113** LB113 Peripheral Blood Mitochondrial DNA Copy Number, a Potential Marker of Non-Alcoholic Fatty Liver Disease?. **M.A. Pescador Tapia, N. Frago-Bargas, D. Rodríguez-Ríos, M.L. Lazo-de-la-Vega-Monroy, L.D.R. Ibarra-Reynoso, Y. Ruíz-Noa, M.D.C. Preciado-Puga, M. Velazquez-Villafañá, B. Jordan-Pérez, S. Garnelo-Cabañes, J.R. García-Ramírez, G. Lund.** Center for Research and Advanced Studies of the National Polytechnic Institute, Mexico, University of Guanajuato, Mexico and Hospital General Regional de León, Mexico.
- LB114** LB114 Epigenome-Wide Association Study of Incident Cardiovascular Disease. **K. Westerman, J. Ordovas.** Tufts University.
- LB115** LB115 An RNA-Sequencing Approach to Understanding the Genetic Influences on Fetal Alcohol Syndrome. **S. Bingham, A. Gallagher, A. Flores, J. Trinidad, V. Arboleda, J. de Almeida Rego, D. Villada.** Barry University.
- LB116** LB116 Gene Ontology Analysis of and Subtyping of Breast Tumors by RNA-Seq and Bingo. **P. Soneral, C. Skorseth.** Bethel University.
- LB117** LB117 Mass Spectrometry Based Proteomics Investigation of Induced Obstructive Sleep Apnea (OSA) in Rat Atria. **C.C. Darie, D. Channaveerappa, K.L. Wormwood, J. Lux, B. Panama.** Clarkson University and Masonic Medical Research Laboratory.
- LB118** LB118 Proteomic Analyses of Plant Exosomes. **B. Özdemir, H. Çimen.** Yeditepe University, Turkey.

- LB119** LB119 Identification of Xbai Polymorphism of the Estrogen Receptor Alpha in Mexicans at Early Postmenopause. **G. Lugo-Martínez, C.A. Jiménez-Zamarripa, E.O. Madrigal-Santillán, C.C. Calzada-Mendoza.** Escuela Superior de Medicina, Instituto Politécnico Nacional, Mexico and Instituto Politécnico Nacional, Mexico.
- LB120** LB120 Novel Bioinformatics Tools for Omics Data Analysis and Visualization. **P.D. Karp, S. Paley, R. Billington.** SRI International.

BACTERIA AND PARASITES: FROM MICROBIOME TO ANTIBIOTICS

WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION

Presentation time: 12:15 PM–2:00 PM

Authors at boards:

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Board # ending in 2, 5, or 8, 1:15 PM–2:00 PM

Board# Pub#

- LB121** LB121 Computing Metabolic Routes in the Human Microbiome. **P.D. Karp, P.D. Karp, M. Krummenacker, M. Krummenacker.** SRI International.
- LB122** LB122 Effect of Coordinated Probiotic/Prebiotic/Phytobiotic Supplementation on Microbiome Balance and Psychological Mood State in Healthy Stressed Adults. **S. Talbott, S. Talbott, B. Stephens, B. Stephens, J. Talbott, J. Talbott, M. Oddou, M. Oddou.** Amare Global, Wasatch Scientific and EQQIL.
- LB123** LB123 Antibiotic Susceptibility Studies and Protein Degradation by Fungi Growing in Aerobic and Anaerobic Conditions. **B. Mercado, P. Bayman.** University of Puerto Rico, Rio Piedras Campus, Puerto Rico.
- LB124** LB124 Utilization of Semi-Solid Agar Inoculation in Microbial Co-Culture: A Novel Protocol for Antibiotic Discovery. **S.I. Slaughter, V.E. Cadet.** Georgia Campus—Philadelphia College of Osteopathic Medicine.

SIGNAL TRANSDUCTION AND CELLULAR REGULATION

WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION

Presentation time: 12:15 PM–2:00 PM

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Board # ending in 2, 5, or 8, 1:15 PM–2:00 PM

Board# Pub#

- LB125** LB125 Enhanced Chemotactic Response of MDA-MB-231 Breast Cancer Cells Towards Stable Gradients of EGF. **J. Schwarz, V. Kuttenger, N. Baumann, E. Horn, R. Zantl.** ibidi GmbH, Germany.
- LB126** LB126 Inhibitors Targeting IGF-1R and mTOR Induce Synergistic Cell Growth Inhibition and Enhance Apoptotic Activity in Cancer Cell Lines. **G. Warshamana-Greene, A. Panthi.** South Carolina State University.

- LB127** LB127 Calmodulin Binds to and Inhibits H-RAS Activation of PI3K: A Single Molecule Study. **T. Buckles, B. Ziemba, G. Masson, R. Williams, J. Falke.** University of Colorado Boulder and Medical Research Council Laboratory of Molecular Biology, United Kingdom.
- LB128** LB128 Abrogation of TGF-Beta Signaling in Dendritic Cells Leads to E-Cadherin-Mediated Adhesion Between Dendritic Cells and Epithelium Which Contributes to the Pathogenesis of Inflammatory Bowel Disease. **S. Ihara, Y. Hirata, K. Koike.** The Institute for Adult Diseases, Asahi Life Foundation, Japan, The Institute of Medical Science, The University of Tokyo, Japan, Graduate School of Medicine and The University of Tokyo, Japan.
- LB129** LB129 Exploring the Intersection of Cellular Zinc and Kinase Activity with Single Cell Imaging. **K.J. Anson, A. Palmer.** University of Colorado Boulder.
- LB130** LB130 Characterization of Akt Isoform Responses to Insulin and IGF-I in Primary Human Skeletal Myotubes. **A.V. Geddis, R.W. Matheny.** U.S. Army Research Institute of Environmental Medicine.
- LB131** LB131 Protective Effect of Thymol Essential Oil from *Thynus Quinquecostatus* Extracts on UV Irradiation-Induced Skin Aging by Suppressing MMP-1 Expression and Collagen Degradation. **T.H. Lee, H. Jung, S.M. Lee, Y. Park.** Kyung Hee University, Republic of Korea.
- LB132** LB132 PINX1 Promotes Malignant Transformation of Thyroid Carcinomas Through Akt, MAPK, and β -Catenin Signaling Activation. **J. Kang, S. Park, J.K. Myung.** Korea Institute of Radiological and Medical Sciences, Republic of Korea.
- LB133** LB133 Dishevelled Has YAP Nuclear Export Function in a Tumour Suppressor Context Dependent Manner. **H.E. Kang, Y. Lee.** Yonsei University College of Dentistry, Republic of Korea.
- LB134** LB134 PGF and VEGF-C Secreted by Preosteoclasts Induce Migration and Differentiation of Mesenchymal Stem Cells. **J-E. Huh, S. Yi, S.Y. Lee.** Ewha Womans University, Republic of Korea.
- LB135** LB135 SOCS3 Down-Regulates ROS Signaling and Inhibits M1 and M2 Human Macrophage Polarization. **C-E. Lee, H-Y. Yoon, H. Jeong.** Sungkyunkwan University, Republic of Korea.
- LB136** LB136 The Psycho-Neuro-Immuno Axis of Cancer. **A.L. Zillow, O.L. Tulp, G.P. Einstein.** University of Science, Arts and Technology Montserrat, Montserrat, University of Science, Arts and Technology Montserrat and Einstein Medical Institute.
- LB137** LB137 A Haloacid Dehalogenase of *Candida albicans*: An Uncharted Territory. **S. Ghosh, K. Hanumantha Rao.** University of Kalyani, West Bengal, India and National Institute of Plant Genome Research, New Delhi, India.
- LB138** LB138 The Receptor Tyrosine Kinases TYRO3 and AXL Are Co-Regulated and Activate Discrete Signaling Pathways for Cancer Cell Proliferation and Invasion Respectively. **S. Hafizi, N. Al Kafri, M. Vouri.** University of Portsmouth, United Kingdom and German Cancer Research Center (DKFZ), Germany.
- LB139** LB139 Arl4d Modulates Microtubule Dynamics via Its Interaction with Eb1. **F-J.S. Lee, S-J. Lin, C-F. Huang, T-S. Wu, C-C. Li.** National Taiwan University, Taiwan.
- LB140** LB140 Inhibitory Action of cTPx II on Respiratory Growth of Yeast as a Possible Physiological Function. **M-K. Cha, K-J. Kim, S-K. Hong, Y-M. Oh, I-H. Kim.** Paichai University, Republic of Korea.
- LB141** LB141 Nutrient/Starvation Sensing for Reciprocal mTORC1/AMPK Response in *Dictyostelium*, at the Junction Between Growth and Development. **P.K. Jaiswal, A.R. Kimmel.** National Institutes of Health.

- LB142** LB142 The Novel Cardio-Oncology Drug, NP-6A4, Regulates the Growth of Multiple Breast Cancer Cell Lines Through Distinct Cell-Specific Mechanisms. **L. Pulakat, A.M. Belenchia, R.G. Toedebusch.** University of Missouri.
- LB143** LB143 Yeast and Cancer: Common Mechanism Underlying Activation of Ras by Glycolytic Flux. **F. Van Leemputte, K. Peeters, Bv. Fischer, D. Haesen, V. Ward, B. Bonini, H. Quezada, C. Bravo, W. Versées, V. Janssens, P. Tompa, J. Thevelein.** Katholieke Universiteit Leuven—VIB, Belgium, KULeuven, Belgium, VUB, Belgium and KULeuven Laboratory of Protein Phosphorylation and Proteomics, Belgium.
- LB144** LB144 EGR1 Interacts with TBX2 and Functions as a Tumor Suppressor in Rhabdomyosarcoma. **T.S. Mohamad, J. Davie.** Salahaddin University-Erbil, Iraq and Southern Illinois University.
- LB145** LB145 Double-Stranded RNAs Attenuate Interferon Response via Parkin-Mediated MAVS Ubiquitination. **S-J. Kim, D-G. Ahn, G.H. Syed, A. McMillan, S. Thomas, M. Gale Jr., B-T. Kim, A. Siddiqui.** Korea Research Institute of Chemical Technology, Republic of Korea, University of California, San Diego and University of Washington, Seattle.
- LB146** LB146 Cooperative Inhibition of Wnt/ β -Catenin Signaling by Klotho and Vitamin D: Implications for Chemoprevention. **S. Khan, Z. Khan, G. Whitfield, M. Haussler, P. Jurutka.** Arizona State University and University of Arizona College of Medicine—Phoenix.
- LB147** LB147 Phenotype Analysis of Myo10 Knockout Mice Lacking the Motorized Full-Length, but Not the Brain-Specific Headless Isoform. **A.C. Bachg, M. Horsthemke, B.V. Skryabin, T. Klasen, N. Nagelmann, C. Faber, E.F. Woodham, L.M. Machesky, S. Bachg, R. Stange, H-W. Jeong, R.H. Adams, M. Bähler, P.J. Hanley.** Westfälische Wilhelms-Universität Münster, Germany, University Hospital Münster, Germany, University of Glasgow, United Kingdom, Max Planck Institute for Molecular Biomedicine and University of Münster, Faculty of Medicine, Germany.
- LB148** LB148 NLRP12 Binds to HCK Potentially Regulating the NF- κ B Pathway. **Y. Zhang, C. Okamoto.** University of Southern California.
- LB149** LB149 An Active-Like Src Conformation Explains Its Dynamic Regulation. **L.G. Ahuja, Y. Meng, A.P. Kornev, B. Roux, S. Taylor.** University of California, San Diego and University of Chicago.
- LB150** LB150 Sestrin2 Supports Lung Tumor Growth in Early Stages of Cancer Development in Mice but Might Play a Tumor Suppressive Role in the Late Stages of Carcinogenesis. **A.V. Budanov, B. Ding, A. Parmigiani, P.M. Chumakov, J.H. Lee, A. Chawla, S. Grossman.** Trinity College Dublin, Ireland, Virginia Commonwealth University, Engelhard Institute of Molecular Biology, Russian Federation and University of Michigan.
- LB151** LB151 *Pasteurella multocida* Toxin Mediated ECM Expression Is Independent of mTOR Signaling Pathway. **H. Oubrahim, M. Leong, B.P. Chock.** National Institutes of Health.
- LB152** LB152 Over-Expression of Mutant Rheb2 Proteins and mTOR Signaling. **N. Parmar.** CSU Channel Islands.
- LB153** LB153 The Role of Renal Epithelial Cell Crosstalk in the Regulation of Cyclosporine A-Induced MMP-9 Production in Calcineurin Isoform-Specific Renal Fibroblasts. **C.E. Francis, C. Nguyen, L. Mata, Y. Bai.** Philadelphia College of Osteopathic Medicine.
- LB154** LB154 Downregulation of Autophagy-Regulatory Proteins Contributes to Induction of Replicative Senescence in Hs68 Cells. **M. Lee, S-H. Hwang.** Incheon National University, Republic of Korea.
- LB155** LB155 Vitamin D Stimulates Serotonin Production via Induction of the Tryptophan Hydroxylase 2 Isoform in B14 Rat Medullary Neurons. **D.A. Lucas, M.S. Sabir, S. Mallick, G.K. Whitfield, M.R. Haussler, P.W. Jurutka.** Mathematical and Natural Sciences, Arizona State University and Basic Medical Sciences, University of Arizona College of Medicine.
- LB156** LB156 Poly(ADP-ribosyl)ation of OVOL2 Regulates Aneuploidy and Cell Death in Cancer Cells. **R. Zhang, Y-C. Liou.** National University of Singapore, Singapore.

METABOLISM, BIOENERGETICS AND NUTRITIONAL BIOCHEMISTRY

WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION

Presentation time: 12:15 PM–2:00 PM

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Board# Pub#

- LB157** LB157 Modulatory Effect of Cashew (*Anacardium occidentale* L.) Nut Supplemented Diet on Fertility Activity of Clomiphene Citrate in Male Rats. **S. Akomolafe.** Ekiti State University, Nigeria.
- LB158** LB158 Cry1 Dysregulation Leads to Hyperglycemia in Diabetic Mice. **Y. Kim, G. Lee, J. Kim.** Seoul National University, Republic of Korea.
- LB159** LB159 Liraglutide Improves Insulin Sensitivity in Diabetic Mice Through Reduction of Inflammation and Induction of Thermogenesis. **J. Zhou, A. Poudel, L. Li.** Central Michigan University.
- LB160** LB160 Effect of Deltamethrin on the Fragility of Red Blood Cells in Albino Rats. **S.E. Umunnakwe, N. Chidi, U. Friday.** Abia State University, Uturu, Nigeria.
- LB161** LB161 Subnormothermic Regulated Hepatic Reperfusion Preserves Mitochondrial Function in Swine Liver Procured After Cardiac Death. **D.F. Stowe, M. Yang, J. Mishra, J. Kim, J.S. Heisner, M. Zimmerman, A.K. Camara, J. Hong.** Medical College of Wisconsin.
- LB162** LB162 Biomedical Status of Women Attending *in-Vitro* Fertilization Clinics in Nigeria. **O.A. Gbenle, M.N. Igwo-Ezikpe, I.A. Taiwo, O.A. Anyashina, O.N. Ofoma, O.O. Ikwuazom.** University of Lagos, Nigeria.
- LB163** LB163 Investigation of the Effects of *SULT2A1* Genetic Polymorphisms on the Sulfation of Dehydroepiandrosterone by Human Cytosolic Sulfotransferase SULT2aA1. **M. Abunnaja, M-C. Liu.** University of Toledo, College of Pharmacy and Pharmaceutical Sciences.
- LB164** LB164 Nutrition, Microbiome, Aging, and Cancer. **A.L. Zillow, G. Riscuta, T.L. Brown, O.L. Tulp, G.P. Einstein.** University of Science, Arts and Technology Montserrat, Montserrat, National Cancer Institute, National Institutes of Health and Einstein Medical Institute.
- LB165** LB165 Analysis of Alaskan Wild Bog Blueberries Anthocyanins in the Mitigation of Type II Diabetes. **B. Callahan, A. Collin, T. Kuhn.** University of Alaska Fairbanks.
- LB166** LB166 *Punica granatum* Rind Extract Promotes Mouse Liver Mitochondrial Function and Attenuates Paraquat Toxicity in a *Caenorhabditis elegans* Model. **C. Mowery, R. Ramanathan, A. Johnny.** Oklahoma State University and University of Minnesota.

- LB167** LB167 Specific Profiles of Circulating Mediators Characterize Older Persons with Physical Frailty and Sarcopenia. **R. Calvani, A. Picca, F. Marini, A. Biancolillo, J. Gervasoni, S. Persichilli, A. Primiano, F. Landi, R. Bernabei, E. Marzetti.** Catholic University of the Sacred Heart, Teaching Hospital Agostino Gemelli, Italy, Sapienza University of Rome, Italy and Fondazione Policlinico Universitario A. Gemelli, Italy.
- LB168** LB168 Effect of High-Sucrose and High-Fructose Diets on Adipose Tissue Dysfunction and Metabolic Syndrome. **A. Sakamuri, S. Jeyapal, S.R. Kona, S. Pothana, A. Ibrahim.** National Institute of Nutrition, India.
- LB169** LB169 Binding of 4-Hydroxy-2-Nonenal Decrease Non-Enzymatic Methemoglobin Reducing Capacity. **P. Wilson, C. Mowery, R. Ramanathan.** Oklahoma State University.
- LB170** LB170 Calcium Regulation of Mitochondrial Respiration Is Substrate Dependent and Tissue Specific. **S.M. Kandel, N. Tomar, S.H. Audi, A.K.S. Camara, A.W. Cowley, R.K. Dash.** Medical College of Wisconsin and Marquette University.
- LB171** LB171 Decreased Dietary N-6/N-3 PUFA Ratio by Supplementing 18:3 and Long Chain N-3 PUFA Protected Rats from Fructose-Induced Adipose Tissue Dysfunction and Insulin Resistance. **A. Sakamuri, S. Jeyapal, S.R. Kona, S. Pothana, A. Ibrahim.** National Institute of Nutrition, India.
- LB172** LB172 Shifting Nitrogen Balance Induces Arousal from Hibernation in Arctic Ground Squirrels. **S.A. Rice, A. D'Alessandro, Z. Barati, S. Gehrke, J.A. Reisz, K. Drew.** University of Alaska at Fairbanks, University of Colorado at Denver and Institute of Arctic Biology.
- LB173** LB173 Dietary 18:3 and Long Chain N-3 PUFA Protected Rats from Fructose-Induced Oxidative and Endoplasmic Reticulum Stress in Visceral Adipose Tissue. **A. Sakamuri, S. Jeyapal, S.R. Kona, S. Pothana, A. Ibrahim.** National Institute of Nutrition, India.
- LB174** LB174 Effect of Dietary Alpha-Linolenic Acid and Long-Chain N-3 Polyunsaturated Fatty Acids on Fructose-Induced Hypertriglyceridemia, Hepatic Oxidative Stress and Inflammation. **A. Sakamuri, S. Jeyapal, S.R. Kona, S. Pothana, A. Ibrahim.** National Institute of Nutrition, India.
- LB175** LB175 Lipid Membrane Interaction of Amyloidogenic Peptides. **S. Dey, A. Gupta, D. Bhowmik, A. Das, A. Rawat, S. Maiti.** Tata Institute of Fundamental Research, India.
- LB179** LB179 Analysis of Experimental Feed Impacts on Fatty Acid Profiles of Captive and Wild Arctic Ground Squirrels. **M.L. Mikes, S.A. Rice, D. Bibus, K. Drew.** University of Alaska and Lipid Technologies.
- LB180** LB180 Reproducibility of Phosphoinositide Lipid Extraction and Presentation in Bioanalytical Assays. **A.M. Branch, P.O. Neilsen.** Echelon Biosciences.
- LB181** LB181 Physicochemical Analysis of Outer Membrane Vesicles Isolated from *Escherichia coli* Harboring the *PKS* Genes. **Y. Morales-Lozada, S. Torres-Montañez, R. Muñoz-Santiago, D.C. Díaz-Cartagena, R. Gómez-Moreno, A. Baerga-Ortiz.** University of Puerto Rico, Rio Piedras Campus, Puerto Rico, University of Puerto Rico, Cayey Campus, Puerto Rico and University of Puerto Rico, Medical Science Campus, Puerto Rico.
- LB182** LB182 Phosphoinositide Signaling Meets Heme Biochemistry. **D. Khan, J. Wofford, G. Gulsten, J. Sacchettini, P. Lindahl, V. Bankaitis.** Texas A&M University.
- LB183** LB183 Endocannabinoid and Cannabinoid Metabolism by CYP Epoxygenases. **A. Das.** University of Illinois at Urbana—Champaign.

ORGANELLES AND TRAFFICKING

WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION

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Board# Pub#

- LB184** LB184 The HUS-Box Is Required for Allosteric Regulation of the Sec7 Arf-GEF. **S. Halaby, C. Fromme.** Cornell University.
- LB185** LB185 Imaging and Quantifying Mitochondrial Morphology: A Focus on the 3D Freeware Mitograph. **M.C. Harwig, M.P. Viana, J.M. Egner, J. Harwig, M.E. Widlansky, S.M. Rafelski, R.B. Hill.** Medical College of Wisconsin, University of California, Irvine and Visallo, LLC.
- LB186** LB186 The Hydrophobic Domain of *ENV9* Is a Lipid Droplet Localization Signal in *Saccharomyces cerevisiae*. **A. Ricci, S. Valencia, I. Siddiqah, S. Manandhar, E. Gharakhanian.** California State University, Long Beach.
- LB187** LB187 The Role of Platelet Syntaxins in Endocytosis. **L. Tichacek, S.W. Whiteheart.** University of Kentucky.
- LB188** LB188 C-Terminal Domain Is Responsible for a Kunitz-Type Inhibitor Uptake by Tumor Cells. **A.M. Chudzinski-Tavassi, K.L.P. Morais, D. Servent, J.M. Sciani, A. Iqbal.** Butantan Institute, Brazil and Atomic Energy and Alternative Energies Commission, France.
- LB189** LB189 Internalization and Intracellular Trafficking of an Antitumor Molecule. **K. Morais, M.B. Goldfeder, J.M. Sciani, A.M. Chudzinski-Tavassi.** Butantan Institute, Brazil.
- LB190** LB190 SYP73 Is a Novel Membrane-Associated Actin-Binding Protein That Anchors the ER to the Actin Cytoskeleton in *Arabidopsis*. **P. Cao, L. Renna, G. Stefano, F. Brandizzi.** Michigan State University.

LIPIDS AND MEMBRANES

WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION

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Board# Pub#

- LB175** LB175 Triglycerides Analysis in Adipose Tissue from Insulin Sensitive and Insulin Resistance Obese Patients. **H.A. Alsulaiti, M. Harvey, A.A. Latiff, M.A. Elrayess.** Anti-Doping Lab Qatar, Qatar.
- LB176** LB176 Proteomic Profiling of Exosomes Leads to the Identification of Novel Biomarkers for Prostate Cancer Progression. **K.J. Shin, Y-K. Seo, Y. Yoo.** Ulsan National Institute of Science and Technology, Republic of Korea and Korea Research Institute of Bioscience and Biotechnology, Republic of Korea.
- LB177** LB177 Membrane Curvature and Pore Formation Induced by Antimicrobial Peptides. **H.K. Lee.** Dankook University, Republic of Korea.

LB191 LB191 Valproate Prevents a Cytosolic vH⁺ATPase Subunit Insertion on Insulin Granule Membrane and Compromises Insulin Release in MIN6 Cells. **N. Yedulla, A. Naik, W. Yu, K.M. Kokotovich, M. Greenberg, B. Jena.** Wayne State University School of Medicine, Wayne State University.

GLYCANS AND GLYCOBIOLOGY

WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION

Presentation time: 12:15 PM—2:00 PM

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Board# Pub#

LB192 LB192 Chemical X Promotes the Osteogenesis and Inhibits the Adipogenesis Through Inhibition of Lipid Metabolic Ezyme. **H-J. Jang, P-G. Suh.** Ulsan National Institute of Science and Technology, Republic of Korea.

LB193 LB193 *Fasciola hepatica* Glutathione S-Transferase (FhGST) Conformational Studies and Its Effect on the Suppression of Toll-Like Receptors Stimulation. **B.N. Valdes Fernandez, V. Aguayo, C. Ruiz Jimenez, M. Ramos, A. Espino.** University of Puerto Rico, Rio Piedras Campus, Puerto Rico, University of Puerto Rico, Medical Sciences Campus, Puerto Rico and University of Puerto Rico, Medical Science Campus, Puerto Rico.

LB194 LB194 Structure and Function of N-Glycans in Cobra Venom Glycoproteins: Site Specific Glycosylation for Structural Stability and Terminal Sialic Acid for Target Selection. **K.Y. Chien, W.G. Wu, B.H. Bui, C.C. Lin.** Chang Gung University, Taiwan and National Tsing Hua University, Taiwan.

SOCIETY FOR EXPERIMENTAL BIOLOGY AND MEDICINE (SEBM) INTERDISCIPLINARY RESEARCH

WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION

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Board# Pub#

LB195 LB195 Assessment of Hormone Receptor Profile in Breast Cancer Using ¹⁸F-Fluro-Estradiol PET CT: A Pilot Study. **S. Vuthaluru, R. Kumar, A. Sharma, S.P., S. Mathur, R. Parshad.** All India Insitutue of Medical Sciences, India.

LB196 LB196 Subcellular Distribution of the Dopamine Transporter Phosphorylated on Threonine 53. **T.J. Gilchrist, Z.S. Gaarder, M.J. Hovde, R.A. Vaughan, J.D. Foster.** University of North Dakota School of Medicine and Health Sciences.

LB197 LB197 Influence of Mesenchymal Stem Cells on Qualitative and Quantitative Characteristics of Energy Transformation in Muscle Tissue of Lower Extremity in Ischemia. **I. Shypilova, R. Gami.** All Saints University, Saint Vincent and the Grenadines.

EDUCATION AND PROFESSIONAL DEVELOPMENT—GENERAL (BMB)

WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION

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Board# Pub#

LB198 LB198 The Design of SCI-57: An Ultrastable, Rapid-Acting, Single-Chain Insulin Analog. **M. Park.** The Nueva School.

LB199 LB199 The Use of Pharmacogenetics in Targeting SGLT2 and Its Variants. **A. Fassler.** School District of Marshfield.

LB200 LB200 Reenergized Adoptive Cell Transfer Immunotherapy. **C. Kaiser, K. Klestinski, W. Cui, M. Chang, N. Cowan, S. Smith, D. Strom, J. Strom.** Marquette University High School, Blood Research Institute and BloodCenter of Wisconsin and Medical College of Wisconsin.

LB201 LB201 Scientific Community Outreach: Promoting Science to Students at the K–12 Level and Stem Students in ASBMB UPR-RP. **E.D. Navarro, M.G. Perez-Oquendo, J. Ramirez-Lugo.** Universidad de Puerto Rico, Rio Piedras Campus, Puerto Rico.

LB202 LB202 The Use of Single-Domain Antibodies from *Camelidae* for the Inhibition of *Clostridium difficile* Toxins A and B. **S. Wall, A. Akman, Z. Chafe, A. Chow, M. Deng, F. Dumitrascu, K. Erisoglu-Akyildiz, I. Hernandez-Oviedo, K. Hu, R. Muscant, T. Nguyen, C. Niu, T. Rulko, H. Samad, N. Sullivan, E. Wa, Y. Wu, M. Xiao.** Ashbury College, Canada and Ashbury, Canada.

LB203 LB203 Serine Rich Splicing Factor 2 (SRSF2) Flips for RNA Binding. **M. Arnholt, M. Bohn, M. Cina, A. Downing, M. Flanagan, L. Hautala, A. Jaeke, C. Kennedy, B. Lane, A. O'Bryon, J. Pepin, E. Rohloff, F. Rrahmani, S. Schmitt, J. Spudich, S. Staus, K. Tadlock, M. Tomashek, E. Witt, M. McNally.** Hartford Union High School and Medical College of Wisconsin.

LB204 LB204 Yo Gaba_A Gaba_A: How the Structure of Human Gaba_A Receptor Affects the Action of Anesthetics. **S. Strandberg, S. Fleischmann, E. Bauer, S. Franczak, E. Fricker, A. Griffith-Topps, M. Jessick, C. Kuehn, C. Lois, C. Sargent, L. Schraufnagel, S. Strandberg, C. Strother, J. Strother, L. Thota, S. Urban, R. Peoples.** Divine Savior Holy Angels High School, and Marquette University.

LB205 LB205 Constructing a 3-D Molecular Model to Highlight the Conversion of the Normal Protein PrP^c into the Mutated PrP^{sc} in a Prion Disease. **E.F. Schmitt Lavin, A. Barraza, H. (G). Bui, R. Speth.** Nova Southeastern University.

LB206 LB206 The Mechanism of Ras Nucleotide Exchange in the Mitogen Activating Pathway. **D. Shannon, B. Hall, K. Peters, J. Glass, L. Gutzwiller, S. Buehler, C. Shirley, N. Lima, N. Nassar.** Moeller, Mount Notre Dame High School and Children's Hospital Medical Center.

LB207 LB207 Evolution of Structure-Function Relationships in Modern Estrogen Receptors and the Reconstructed Ancestral Steroid Receptor 1. **A. Peterson, L. Bunday, E. Bussmann, S. Chadha, J. Ridler, E. Romashkova.** Minnetonka High School.

LB208 LB208 In with the Good and Out with the Bad—The Role of SR-B1 in Lowering Blood Cholesterol Levels. **K. Tiffany, A. Arnholt, D. Arzumanyan, L. Arzumanyan, M. Barber, E. Copes, T. Crow, E. Esser, A. Kuborn, K. Reinhardt, B. Tiffany, A. Woods, D. Sahoo.** Cedarburg High School and Medical College of Wisconsin.

- LB209** LB209 Understanding the Structure and Function of Cone Snail Insulin as a Substitute for Human Insulin. **J. Lane, M. Firminger, E. Fraser, M. Geiger, S. Morris, M. Ryan.** Mahtomedi High School.
- LB210** LB210 ABCD: The Language of Replication Protein A (RPA). **M. Schuld, J. Perez, C. Anderson, R. Bhatia, M. Ehlers, K. Leger, H. Lentz, S. Marsh, B. Haralson, A. Puls, S. Sheikh, A. Smith, M. Spellecy, M. Sweeney, A. Ya, E. Antony.** Ronald Reagan High School and Marquette University.
- LB211** LB211 Investigating the Role of the BRCA2 C-Terminus in Homologous Recombination. **A. Chiang, N. Ladino, K. Lee, A. Lu, N. Srikanth, W. Stearns, C. Wen, S. Williams, R.B. Jensen, M.E. D'Ausilio.** The Pingry School and Yale University.
- LB212** LB212 An Exploration of the Algal Protein Channelrhodospin and the Origins of Optogenetics. **D. Smalley, E. Mackenzie, M. Meyer, H. Ouang, A. Pandit, M. Parthasarathy, S. Rai, L. Seeley, H. Smuckler, E.M. Kessler.** Blue Valley North High School and Center for Advanced Professional Studies (CAPS)
- LB213** LB213 Human Insulin vs. Genetically Engineered Fast Acting Insulins. **F. Mukhtar, P. Veljkovic, M. Melnyk, Y. Smetanin, D. Gong, D. Lawal, M. Drohomysky, G. Mingolelli.** CPS.
- LB214** LB214 Insulin, You're Confusing the Systems. **B.A. Bartolomei, S.R. Mergens, R.A. Love, A.W. Shipley, S.A. Martinez.** El Capitan High School.
- LB215** LB215 Structure Analysis and Phenotype of the Ptf1-J/Ptf1a P191t Mutant Heterotrimeric Complex. **W. Coats, N. Ali, A. Ali, L. Davies, J. Sterling, L. De Leon, E. Sandoval, A. Pacheco, K. Montes, I. Guerrero, E. Jordan, A. Mulley.** Hillcrest High School.
- LB216** LB216 Augmented Reality as an Educational Tool for Teaching Macromolecular Structure and Function. **R-J. Sung, A. Wilson, L. Crowl, J. Nardi, K. St. Clair.** Carleton College.
- LB217** LB217 A Survey Course for STEM Students to Understand Diversity and Inclusion Through Readings, Discussion and Reflection. **M.A. Benore, S.R. Smith.** University of Michigan—Dearborn.
- LB218** LB218 Conversion of Invasive Species, *Rhynchospora carthartica*, into Combustible Biofuel: A Novel Approach to Conservation. **S. McCollough, I. Eickhoff, P. Soneral.** Bethel University.
- LB219** LB219 *Coursesource*: Publishing Classroom Activities and Pedagogical Materials. **N. Grover, K. Fox, J.E. Bell.** Colorado College, Union College and University of San Diego.
- LB220** LB220 Using the Curriculum to Introduce Transferable Skill Sets to Undergraduate Students. **J. Richardson.** Austin College.

Pathology

LATE BREAKING: BREAKING BAD: CONSEQUENCES OF LIVER INJURY

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

Presentation time: 11:45 AM—12:45 PM

Board# Pub#

- D69** LB552 Akt Isoforms in the Pathogenesis of Alcoholic Liver Disease. **K. Reyes-Gordillo, R. Shah, R. Lakshman.** The George Washington University, Medical Center, Cedars-Sinai Medical Center and Veterans Affairs Hospital and Medical Center.
- D70** LB553 Cultivation of Hepatic Stellate Cells in 3D ECM to Simulate Physiological and Fibrotic Conditions. **Y-P. Han.** Sichuan University, People's Republic of China.
- D71** LB554 Mast Cell Numbers in Rat Livers in an Acute Model of Fat Embolism Are Reduced by Losartan but Not by Captopril. **A. Siddiqi, H. Hamdan, S. Siddiqi, M. Pour, Z. Randall, B. Leupold, D. Arif, A. Poisner, S. Hamidpour, A. Molteni.** University of Missouri—Kansas City and University of Kansas Medical Center.
- D72** LB555 The Anti-Apoptotic Activity of Protein S Worsens Liver Fibrosis by Activating the Akt Pathway. **T. Totoki, C.N. D'Alessandro-Gabazza, M. Toda, A. Takeshita, T. Yasuma, K. Nishihama, N. Horiki, Y. Takei, E.C. Gabazza.** Mie University Graduate School of Medicine, Japan.
- D73** LB556 Lack of α -CGRP Prevents High Fat Diet Induced Biliary Proliferation and Hepatic Steatosis. **A. O'Brien, T. Kyritsi, L. Chen, S. Glaser, G. Alpini.** Texas A&M Health Science Center.
- D74** LB557 Molecular Typing of Hepatitis B Using Fusion Primers and Ion Torrent. **J. Ringlander, M. Andersson, M. Lindh.** University of Gothenburg, Sweden.

LATE BREAKING: BIOBANKING, EPIDEMIOLOGY, BIOINFORMATICS, AND BIOCOMPUTATIONAL PATHOLOGY

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

Presentation time: 11:45 AM—12:45 PM

Board# Pub#

- D75** LB558 Computational Histopathological Analysis of Nanoparticle Distribution in Breast Cancer Models. **E. Henderson, B. Simons, P. Korangath, J. Stewart, R. Ivkov.** The Johns Hopkins University School of Medicine.

LATE BREAKING: ENVIRONMENTAL AND TOXICOLOGICAL PATHOLOGY

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

Presentation time: 11:45 AM—12:45 PM

Board# Pub#

- D76** LB559 Association of the Metabolomics Footprint, Body Fat and Serum Levels of Leptin, Ghrelin and Adiponectin in Shift Workers: Pilot Study. **A.A. Gordillo-Moscoco, F. Bujaidar-Jonguitud, R. Almendra-Pegueros, E. De Leon-Diaz de Leon, R. Flores-Ramirez, M. Rodriguez-Aguilar, C. Jimenez-Gonzalez, U. Medina.** Medical School, Universidad Autónoma de San Luis Potosí, Mexico, Universidad Autónoma de San Luis Potosí, Mexico and Coordinación para la Innovación y Aplicación de la Ciencia y la Tecnología, Mexico.

- D77** LB560 Investigating the Biosafety of Petroleum Ether Oil of Piper Guineenses Used as Grain Protectants Using Wistar Rats. **P.A. Adeniyi, H.I. Gboyega.** Federal Science and Technical College, Nigeria and Federal College of Agriculture, Nigeria.
- D78** LB561 The Influence of LPS and Zinc on Interaction Between Mother and Offspring. **A. Nascimento, B. Singh, S. Kirychuk, M.M. Bernardi, L. Felicio.** University of Saskatchewan, Canada, University of Calgary, Canada, Paulista University, Brazil and University of Sao Paulo, Brazil.
- D79** LB562 Lysophosphatidic Acid Regulates the Vitamin D Receptor and Its Metabolism-Related Genes in Human Gingival Fibroblasts. **D.R. Cerutis, M.D. Weston, M.E. Nunn, D.E. Williams, A.O. Ogunleye, T. Miyamoto.** Creighton University.
- D80** LB563 *In-Vitro* Evaluation of the Antidiabetic Effects of Coffee as a Natural Inhibitor of Alpha-Glucosidase. **X. Day, J. Hill, J.-C.A. Obih, W. Tolessa, P.O. Obih.** Xavier University of Louisiana and Southern University at New Orleans.
- D81** LB564 Broad Antagonistic Activity of a Fatty Acid Binding Protein of *Fasciola hepatica* (Fh12) in the Presence of Whole Bacteria Extract Prelude a Broad Spectrum of Action. **C. Ruiz-Jiménez, V. Aguayo, B. Valdés, A.M. Espino.** University of Puerto Rico, Medical Sciences Campus, Puerto Rico.
- D82** LB565 Does Perfluorooctane Sulfonic Acid (PFOS) Affect the Mouse Immune System? **L. Torres, A. August.** Cornell University.
- D83** LB566 Titanium Dioxide TiO₂ Induces Loss of Proliferative Capability Related to Ultrastructural Changes in Human Mesenchymal Stem Cells from Wharton Jelly. **G. Lugo-Martínez, G.C. Gutierrez-Iglesias, A. Parra-Barrera, C.C. Calzada-Mendoza, M.D.P. Ramos-Godínez, J.R. Cáceres-Cortés.** Escuela Superior de Medicina, Instituto Politécnico Nacional, Mexico and Instituto Nacional de Cancerología, Mexico.

LATE BREAKING: UNDERSTANDING A BROKEN HEART: MECHANISMS OF CARDIAC PATHOLOGY

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

Presentation time: 11:45 AM—12:45 PM

Board# Pub#

- D66** LB567 Clinically Relevant Congenital Reductions in Cardiomyocyte N-Glycosylation Is Sufficient to Cause Premature Death from Dilated Cardiomyopathy. **E.S. Bennett, W. Deng, K-P. Yip, A.R. Ednie.** Wright State University and University of South Florida.

LATE BREAKING: VASCULAR BIOLOGY AND PATHOLOGY: FROM A (ATHEROSCLEROSIS) TO Z (LINES OF ZAHN)

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

Presentation time: 11:45 AM—12:45 PM

Board# Pub#

- D67** LB568 Differentiation of the Anti-Coagulant Effects of Activated Protein C and Recombinant Thrombomodulin as Studied in Whole Blood and Retrieved Plasma. **F. Siddiqui, R. Laddu, D. Hoppensteadt, J. Fareed.** Loyola University Medical Center.

- D68** LB569 Differences in the Serum's Metabolomics in Patients with High Plasma Atherogenic Index and Healthy Controls: Preliminary Results. **A. Gordillo-Moscoco, R. Almendra-Pegueros, L. Valencia, D. Esmer-Sánchez, R. Florez-Ramírez, M. Rodríguez-Aguilar, J.A. Correa-González, T. Tejerina, M. Pierdant-Perez, U. Medina.** Medical School, Universidad Autonoma de San Luis Potosi, Mexico, Hospital Central Dr. Ignacio Morones Prieto, Mexico, Coordinación para la Innovación y Aplicación de la Ciencia y la Tecnología, Mexico, School of Health Sciences, Universidad de Malaga, Spain and Medical School, and Universidad Complutense de Madrid, Spain.
- D69** LB570 Regular Exercise Reduces Adipose Tissue Inflammation and Improves Glycemic Control in Western Diet-Fed Mice Despite Hyperendothelinemia. **T.J. Jurrissen, Z.I. Grunewald, J.R. Ball, F.I. Ramirez-Perez, M.L. Woodford, A.R. Aroor, L.A. Ayedun, N.C. Winn, P. Paradis, E.L. Schiffrin, L.A. Martinez-Lemus, J. Padilla.** University of Missouri and Lady Davis Institute for Medical Research, Canada.
- D70** LB571 Enigma of Graft Vascular Disease: Are We Still Interested in Getting the Answers? **V.M. Subbotin.** University of Pittsburgh.

LATE BREAKING: CANCER PATHOLOGY, PATHOGENESIS, AND PATHOPHYSIOLOGY

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

Presentation time: 11:45 AM—12:45 PM

Board# Pub#

- D71** LB572 Altering Gut Microbiota to Enhance Therapeutic Efficacy in Resistant Colon Cancer by Natural Agents. **A.P. Majumdar, L. Farhana, S. Sarkar, P. Nangia-Makker, Y. Yu.** VA Medical Center, Wayne State University and Wayne State University.
- D72** LB573 Glypican 3 (GPC3)-CD81 Axis Regulates Ezrin Mediated Hippo Pathway via Cross Talking with HGF/c-MET Axis in Hepatocytes and Hepatocellular Carcinoma (HCC) **Y. Xue, W. Mars, W. Bowen, A. Orr, J. Stoops, G. Michalopoulos.** University of Pittsburgh.
- D73** LB574 Iron Supplementation Modulates Genes Involved in Oxidoreductase Activity, Including Prostaglandin-Endoperoxide Synthase 2 in Intestinal Tumors. **J. Swain, C. Li, P. Leahy.** Case Western Reserve University.

LATE BREAKING: CELL DEATH, INJURY, AND REPAIR: WHAT DOESN'T KILL YOU, (POTENTIALLY) MAKES YOU STRONGER

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

Presentation time: 11:45 AM—12:45 PM

Board# Pub#

- D72** LB575 Defining the Intracellular Redox-Dependent Protein Signaling Networks Between Cell-Junctions and Focal Adhesions During Intestinal Mucosal Repair. **J. Matthews, A. Reedy, R. Jones, A. Neish.** Emory University.
- D73** LB576 Metabolic Profiling of Serum Reveals Significant Changes in Lipid and Amino Acid Metabolism in a Lipodystrophy Mouse Model. **Y. Zhou, K.K. Cheng, A. Xu, R.L. Hoo.** The University of Hong Kong, Hong Kong and The Hong Kong Polytechnic University, Hong Kong.

- D74** LB577 The Influence of Warm Ischemic Time on the Viability of Deceased Organ Donor Derived Bone Marrow. **A.M. Sherry, B.H. Johnstone, M. LaFontaine, E.J. Woods.** Ossium Health and Marian University College of Osteopathic Medicine.
- D75** LB578 The Effect of Congenic Myostatin Inhibition on a Mouse Model of Osteogenesis Imperfecta (OI) Type I/IV. **A.M. Aguillard, V.L. Gremminger, S.A. Daghlas, Y. Jeong, K.L. Lenz, C.L. Phillips.** University of Missouri.

LATE BREAKING: INFLAMMATION AND IMMUNOPATHOLOGY

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

Presentation time: 11:45 AM–12:45 PM

Board# Pub#

- D76** LB579 Intraperitoneal Myricin Upregulates Transforming Growth Factor B1 (TGF-B1) Expression in Murine Destabilization of the Medial Meniscus Model of Osteoarthritis—Evidence for a Role of Ceramide Species in Cartilage Homeostasis. **B.J. Rose, M.A. Goodman, D.L. Kooyman.** Brigham Young University.
- D77** LB580 Proposed Mechanisms of Age Related Macular Degeneration. **S.M. Okorienta, G.P. Einstein, O.L. Tulp.** University of Science, Arts and Technology Montserrat, Montserrat and Einstein Medical Institute.
- D78** LB581 Anti-Inflammatory Peptide Ac-SDKP Is Highly Concentrated in Macrophages of Lymph Nodes. **C.A. Romero, N. Kumar, O.A. Carretero.** Henry Ford Health Systems.
- D79** LB582 PM2.5 Increases Lung Inflammation Through the Sirtuin-SREBF1-Inflammasome Axis. **C-P. Tien.** China Medical University Hospital, Taiwan.
- D80** LB583 Renin and Prorenin Stained Cells in the Hearts of Rats Subjected to Fat Embolism and Treated with Aliskiren, a Drug Ameliorating the Pulmonary Inflammatory Process. **D. Arif, J. Colson, E. Al-Husseinawi, F. Khalafi, R. Ponnappureddy, M. Pour, N. Silswal, I. Mudar, B. Leupold, A. Poisner, A. Molteni.** University of Missouri—Kansas City and Kansas University Medical Center.
- D81** LB584 Recombinant *Fasciola hepatica* Fatty Acid Binding Protein Downregulates Inflammatory Cytokines/Chemokines in a Mouse Model of Septic Shock and Shows a Wide Spectrum of Action. **J.J. Rosado-Franco, M.J. Benítez-Ramos, C. Ruiz-Jiménez, A.M. Espino-Hernández.** University of Puerto Rico, Medical Sciences Campus, Puerto Rico.

LATE BREAKING: IMMUNOHISTOCHEMISTRY, MICROSCOPY, MOLECULAR METHODS, AND BIOMARKERS: STOCKING THE TOOLBOX TO UNDERSTAND PATHOLOGY AND DISEASE

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

Presentation time: 11:45 AM–12:45 PM

Board# Pub#

- D82** LB585 Cell Culture Confluency Estimation, Transfection Efficiency and Total Cell Counting Applications on the Incellis® Smart Cell Imaging System. **L. Antanaviciute, S. Dubacq, O. Varet.** Bertin Corp and Bertin Technologies, France.
- D83** LB586 Keratin 17 Is a Negative Prognostic Biomarker for Endometrial Carcinoma. **J.D.K. Bai, L. Roa-Peña, W. Hou, A. Akalin, L.F. Escobar-Hoyos, K.R. Shroyer.** Stony Brook Medicine and University of Massachusetts Memorial Medical Center.
- D84** LB587 A2A Receptors Are Highly Expressed in Young Patients with Luminal B and Triple Negative Breast Cancer Subtypes and Are Associated with a Higher Proliferate Index. **M. Guimei, M.A. Eladi, D.R.A. Tawfik, F.W. Habbal, A. Harrous, M. El-Sherbiny.** University of Sharjah, United Arab Emirates and Mansoura University, Egypt.
- D85** LB588 Expression of Lymphangiogenesis Markers and Correlation with Lymph Nodal Metastasis in Breast Cancer. **S. Vuthaluru, S. Mathur, S.V., A. Srivastava.** Kasturba Medical College, India and All India Institute of Medical Sciences, India.
- D86** LB589 Role of Immunohistochemistry in Early Detection of Bone Marrow Micrometastases in Breast Cancer. **I.M. Talaat, H.Y. Tayel, M.A.R. Ahmed, R.I. Aly.** College of Medicine, University of Sharjah, United Arab Emirates, Faculty of Medicine, Alexandria University, Egypt, Military Medical Academy, Alexandria Armed Forces Hospital, Egypt and Alexandria Armed Forces Hospital, Egypt.
- D87** LB590 Differential Expression of Cannabinoid Receptors, CB1R and CB2R, in Prostate Tumor Samples with Perineural Invasion. **T.M. Alicea Reyes, J. Flores-Otero.** Institute of Neurobiology, University of Puerto Rico, Medical Sciences Campus and Comprehensive Cancer, Puerto Rico.

LATE BREAKING: PATHOGENESIS OF INFECTIOUS DISEASES

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

Presentation time: 11:45 AM–12:45 PM

Board# Pub#

- D88** LB591 Direct Inoculation and Human Transferrin Supplementation Increases the Survivability of *Neisseria Gonorrhoeae* in the Upper Reproductive Tract of Estrogen-Treated Female BALB/c Mice. **I. Prudhomme, M. Pilligua-Lucas, A.E. Jerse.** San Antonio Uniformed Services Health Education Consortium and Uniformed Services University of the Health Sciences.
- D89** LB592 *In Vitro* Effect of 5G8-Specific Antibodies on *Giardia lamblia* Trophozoites. **R. Rascon, V. Dominguez, T. Garzon, B. Samaniego, A. Valdez, J. Quintero, L. Rascon, C. Velazquez.** University of Sonora, Mexico.

D90 LB593 Effects of Erythropoietin on Acute and Chronic Phases of Experimental Chagas Disease on Mice. **L. Hagstrom, A.C.d.C. Nobre, C.F. Pimentel, J.J. Silva, M.B. de Castro, N. Nitz, M. Hecht, B. Dallago.** Universidade de Brasília, Brazil.

D91 LB594 *Streptococcus pneumoniae* Infection in Respiratory Syncytial Virus Infected Neonatal Lambs. **S.S. Alnajjar, P. Sitthicharoenchai, J. Gallup, M. Ackermann, D. Verhoeven.** Iowa State University and Oregon State University.

Pharmacology

LATE BREAKING:

CARDIOVASCULAR PHARMACOLOGY

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

Presentation time: 12:30 PM–2:30 PM

Board# Pub#

C268 LB595 MicroRNA-17-3p Inhibits Excessive Post-Hypoxic Autophagy and Attenuates H9c2 Cardiomyocytes Reoxygenation Injury *via* pTEN-AKT-mTOR Signaling. **Y. He, Y. Cai, D. Yan, D. Zhang, C. Chen, M.G. Irwin, S. Wang, Z. Xia.** Guangdong Cardiovascular Institute, Guangdong General Hospital, Guangdong Academy of Medical Sciences, People's Republic of China, The University of Hong Kong, People's Republic of China, The First College of Clinical Medical Science and China Three Gorges University and Yichang Central Peo, People's Republic of China.

C269 LB596 Inhibition of Autophagy in Cardiomyocytes by Calmodulin Antagonists. **V. Lopez, F. Keomanivong, E. Wauson, Q-K. Tran.** Des Moines University College of Osteopathic Medicine.

C270 LB597 Impact of Transient ACE Inhibition on Cardiac Reactive Oxygen Species Enzyme Expression in Response to Nitric Oxide Synthase Inhibition. **B. Khokar, A. Garvin, O. Perez, T. Hale.** University of Arizona College of Medicine—Phoenix.

C271 LB598 Identification of eNOS-Based Megakaryocyte Subpopulations and Their Pharmacological Characterization by IFN γ and IL-10. **G.M. Lesyk, P. Jurasz.** University of Alberta, Canada.

C272 LB599 Regulation of Myocardial Ca²⁺ Dynamics by the G Protein-Coupled Estrogen Receptor. **V. Whitcomb, E. Wauson, V. Matnishian, Q-K. Tran.** Des Moines University College of Osteopathic Medicine.

C273 LB600 Deficiency of Prostaglandin E2 Receptor Subtype 4 Exacerbates Left Ventricular Remodeling and Myocardial Fibrosis in Diet-Induced Mice. **F.S. Ying, Y.D. Cai, H.C.E. Tang, Z. Xia.** The University of Hong Kong, Li Ka Shing Faculty of Medicine, Hong Kong and The University of Hong Kong, Hong Kong.

C274 LB601 Macrophage Digesting Dysfunction by Angiotensin II Through Lysosomal Cathepsin B-Mediated NLRP3 Inflammation Activation. **D. Lian, J. Lai, Y. Wu, L. Wang, L. Yao, Y. Zhang, Y. Huang, Y. Chen.** School of Pharmaceutical Science, Guangzhou University of Chinese Medicine, People's Republic of China, College of Pharmacy, University of Houston and The First Affiliated Hospital of Jinan University, People's Republic of China.

C275 LB602 Effect of Ang III on Nuclear Factor Kappa Beta in Wistar Rat VSMCs. **W. Samman, M. Clark.** Nova Southeastern University.

C276 LB603 Comparative Pharmacokinetic Profile of Three Batches of Ovine Enoxaparin and One Batch of Branded Enoxaparin. **V. Rangnekar, W. Jeske, Y. Yao, A. Kouta, D. Hoppensteadt, R. Duff, J. Fareed.** Georgia Thrombosis Forum, Loyola University Medical Center and Ronnsi Pharmaceutical, People's Republic of China.

C277 LB604 Cellular Respiration Is Reduced in Ventricular Fibroblasts from Human Failing Heart Under Statin Therapy. **G. Ross, L. Emelyanova, F. Rizvi, F.X. Downey, J. Tajik, A. Jahangir.** Aurora HealthCare.

C278 LB605 Influence of Anthocyanins on Myocard. **N. Beerová, J. Lietava, I. Varga.** Faculty of Medicine, Comenius University in Bratislava, Slovakia.

C279 LB606 Signaling Pathways Contributing to Central Kappa Opioid Diuresis. **K.M. Ebert, D.R. Kapusta.** Louisiana State University Health Sciences Center.

LATE BREAKING: CENTRAL NERVOUS SYSTEM PHARMACOLOGY

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

Presentation time: 12:30 PM–2:30 PM

Board# Pub#

C280 LB607 Antinociceptive and Gastrointestinal Effects of Mu/Kappa Opioid Mixtures in Rats. **V. Minervini, D.C. Osteicoechea, C.P. France.** University of Texas Health Science Center at San Antonio.

C281 LB608 A Novel, Long-Lasting μ Opioid Receptor Antagonist Prevents and Reverses the Respiratory-Depressant Effects of Heroin in Rhesus Monkeys. **L.R. Gerak, D.R. Maguire, J.H. Woods, S. Husbands, C.P. France.** The University of Texas Health Science Center at San Antonio and University of Bath, United Kingdom.

C282 LB609 The Effects of Intermittent Dietary Supplementation with Fish Oil on High Fat Diet-Induced Enhanced Sensitivity to the Behavioral Effects of Dopaminergic Drugs. **N.M. Beltran, C. Hernandez-Casner, K. Serafine.** The University of Texas at El Paso.

C283 LB610 Ganglioside GQ1b Induces Dopamine Release Through the Activation of PYK2. **N-H. Chen, S-F. Chu, Z. Zhang, Z-Z. Wang.** Institute of Materia Medica and CAMS, People's Republic of China.

C284 LB611 Interaction Between the Dopamine D4 Receptor and the Angiotensin II Type 1 Receptor in Rat Astrocytes. **A.T. O'Connor, M.A. Clark, M. Trivedi.** Nova Southeastern University.

C285 LB612 Synaptic Mechanisms Underlying the Rapid-Acting Antidepressant Actions of Ketamine. **A. Zobel, B. Pope, Z. Rehman, L. Herring, E. Wauson, L. Graves, V. Duric, L. Yuan.** Des Moines University and University of North Carolina.

C286 LB613 The Pharmacological Characterization of Riluzole on Anxiety and Memory. **G. Rossi, M. Rahyab, J. Hindieh, A. Nuzzo, V. Visquerra, J. Gelles.** Long Island University.

- C287** LB614 Sphingosine-1-Phosphate Induced Vasoconstrictor Responses Decreased in Cerebral Arteries of Endotoxemic Rats. **G. Soydan**. Hacettepe University, Turkey.
- C288** LB615 Triglycerides: A Potential Hematological Marker in Animal Models of Cognitive Impairment. **K. Gill, S. Ramesh, M. Majrashi, M. Almaghrabi, D. Desai, K. Abbott, E. Fahoury, T. McElroy, N. Narayanan, R. Nadar, T. Moore, S. Pondugula, M. Dhanasekaran**. Auburn University Harrison School of Pharmacy and Auburn University College of Veterinary Medicine.
- C289** LB616 Attenuation of Dementia by AS605240-PI3K Inhibitor in icv-STZ Induced Sporadic Alzheimer's Disease Rat Model. **R. Alluri, S. A. Reddy, S. G. Reddy, N. Banu**. Vishnu Institute of Pharmaceutical Education and Research, India.
- C290** LB617 Intranasal Delivery of Antibodies Bypasses the Blood-Brain Barrier and Results in Significantly Higher Central Nervous System Levels Than Systemic Administration. **S. Boroumand, N. Kumar, J. Lochhead, M. Pizzo, G. Nehra, R.G. Thorne**. University of Wisconsin—Madison.
- C291** LB618 Therapeutic Effects and Mechanisms of Baicalein on Rotenone Induced Parkinson's Disease in Rats. **Y. Lyu, X. Zhang, L. Du, Y. Yang, J. Wang, G. Du**. Institute of Materia Medica, People's Republic of China, Institute of Interdisciplinary Medicine, People's Republic of China, School of Biomedical Sciences and The University of Hong Kong, Hong Kong.
- C292** LB619 Varicella Meningitis: An Atypical Presentation in an Immunocompetent Individual with Seizures Managed with Acyclovir. **U. Senthilkumar, J. Cheta**. Eastern Virginia Medical School.
- C293** LB620 Increased Infarct Volume and Altered Repair Following Ischemic Stroke in Mice Lacking the Brain-Expressed Orphan G Protein-Coupled Receptor GPR37. **S. Owino, M. Giddens, M. Jiang, X. Gu, L. Wei, S.P. Yu, R. Hall**. Emory University.

LATE BREAKING: PHARMACOLOGY—OTHER

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

Presentation time: 12:30 PM–2:30 PM

Board# Pub#

- C294** LB621 Fasudil, a Rock Inhibitor, Attenuates Endothelial-Leukocyte Interaction in Sick Cell Transgenic Mice. **C.F. Franco-Penteado, A.R. Moraes, H. Chweih, N. Conran, M.A. Claudino, F.F. Costa**. UNICAMP, Brazil and São Francisco University Medical School, Brazil.
- C295** LB622 A Traditional Herbal Formula, CA01, in Mice Suppresses Lung Inflammation Induced by Cigarette Smoke. **E. Park, W.-Y. Jeon, C.-S. Seo, H. Ha, S.E. Jin, J. Kim**. Korea Institute of Oriental Medicine, Republic of Korea.
- C296** LB623 Anti-Inflammatory Effect of Wood-Cultivated Ginseng in LPS-Stimulated RAW264.7 Cells. **J.B. Jeong**. Andong National University, Republic of Korea.
- C297** LB624 Effects of Limonene on Tracheal and Vascular Reactivity in a Mouse Model of Asthma. **S. Rajalingam, R. Bhavsar, M. Patel, A. Siddiquee, M. Kurade, D.S. Ponnoth**. Long Island University.
- C298** LB625 L-Arginine Supplementation and Thromboxane Synthase Inhibition Reverse Cerebral Ischemia in Murine Cerebral Malaria by *Plasmodium berghei* ANKA. **A.D.S. Moreira, V.E.d.F. Almeida, C. Bianco-Júnior, C.T. Daniel-Ribeiro, E.V. Tibiriçá, L.J.d.M. Carvalho**. National Institute of Allergy and Infectious Diseases, National Institutes of Health and IOC, Fiocruz, Brazil.

- C299** LB626 BMPR2 and TFR1 Interact to Each Other. **M.S. Alanazi, A.M. Mohieldien, S.M. Nauli**. Chapman University.

LATE BREAKING: DRUG DISCOVERY AND DEVELOPMENT

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

Presentation time: 12:30 PM–2:30 PM

Board# Pub#

- C257** LB627 *In-Silico* Design of Safe and Effective Topoisomerase IB Inhibitors from Parent Compounds Isolated from *Annona muricata*. **E.T. Adeyemi, A.B. James, O.A. Odeyemi, O.A. Magbagbeola**. University of Lagos, Nigeria.
- C258** LB628 Correcting QT Correction: Correcting the QT Interval for RR in TQT Trials Potentially Causes Regulatory Overestimation of Drug Related QT Changes. **N. Ayala-Lopez, W.D. McGuinn**. Yale University and Drug Development Services.
- C259** LB629 Inhibitors of Flavivirus by Targeting the NS2B-NS3 Protease Interface. **H. Li, M. Brecher, Z. Li, L. Ndacayisaba, J. Zhang, S.S. Parmar, N. Banavali, L. Kramer**. Wadsworth Center.
- C260** LB630 *Phoenix dactylifera* Leaf Extract Protects from Paracetamol-Induced Oxidative Stress in Rats. **G.A. Salem, A. Shaban, H. Diab, W. Elsaghayer, M. Mjedib, A. Hnesh, R.P. Sahu**. Zagazig University, Egypt, Misurata University, Libyan Arab Jamahiriya and Wright State University.
- C261** LB631 Synthesis and Characterization of a Copper-Based Macrocyclic Chelate for Quantitation and Sequestration of Oxalate: The Major Component of Kidney Stones. **A.L. VanWert, J. Hensley, D.S. Hontz, M. Torsiello, M. Venditto, J. Luchetta, D. Lucent, W. Terzaghi**. Wilkes University and Rensselaer Polytechnic Institute.
- C262** LB632 Design, Synthesis and *In-Vitro* Evaluation of ATP-Competitive Inhibitors of Aurora Kinase-A Using Structure-Based Drug Design (SBDD). **O.A. Abdullah, A. Mehanna**. Massachusetts College of Pharmacy and Health Sciences.
- C263** LB633 Anti-Tuberculosis Drug Discovery from Phenotypic High-Throughput Screening of Actinomycete Cultures. **E.M. Grzelak, W. Gao, M.P. Choules, B. Wan, Y. Wang, J. Cheng, H. Lee, J.-W. Suh, G.F. Pauli, S.G. Franzblau, B.U. Jaki, S.-H. Cho**. University of Illinois at Chicago and Myongji University, Republic of Korea.
- C264** LB634 Synthesis, Docking Studies and Biological Evaluation of Triazole-Thiazolidinedione/Rhodanine Hybrids Targeting Cyclooxygenase-2, 5-Lipoxygenase and Peroxisome Proliferator-Activated Receptor. **R. Alaeddine, P. Elzahhar, A. Belal, R. Nassra, T. Ibrahim, N. Wallner, T. Knape, A. Von Knethen, A.F. El-Yazbi, A. Belal**. American University of Beirut, Lebanon, Alexandria University, Egypt, Kafr-El Sheikh University, Egypt, Fraunhofer-Institute for Molecular Biology and Applied Ecology IME, Lebanon, Fraunhofer-Institute for Molecular Biology and Applied Ecology IME, Germany and Goethe-University Frankfurt, Germany.
- C265** LB635 Experimentally-Driven Molecular Docking via a Hybrid Approach. **A. Roberts**. University of Georgia.
- C266** LB636 Using Molecular Docking to Develop Inhibitors of DPP-IV Enzyme. **M.A. Hendawy, A.S. Mehanna, R.M. Shah**. Massachusetts College of Pharmacy and Health Sciences and Broad Institute.

- C267** LB637 Development of Amino Acid Prodrugs of Cytarabine. **S. Slaughter, A. Cooper, S. Modi, H. Parihar, D. Wang, Z. Wu.** Philadelphia College of Osteopathic Medicine and Long Island University.
- C268** LB638 Genie: A Bright New Genetically-Encoded Fluorescent Biosensor for Monitoring cGMP. **K.M. Harlen, P. Tewson, S. Martinka, T. Hughes, A.M. Quinn.** Montana Molecular.
- C269** LB639 A Genetically-Encoded Fluorescent Assay to Detect Drug Toxicity and Genetic Stress in Living Cells. **K.M. Harlen, T. Hughes, A.M. Quinn.** Montana Molecular.
- C270** LB640 Cultivation Establishment and Antiproliferative Activity from *Asclepias subulata*, for the Development of a Phytopharmaceutical. **H.E. Bustamante Armenta, J. López Elías, J.C. Rodríguez, L.A.R. Valenzuela, R.E. Robles Zepeda.** Universidad de Sonora, Mexico.

LATE BREAKING: TOXICOLOGY

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

Presentation time: 12:30 PM–2:30 PM

Board# Pub#

- C271** LB641 A Methodology for Prioritizing Pediatric Pharmacokinetic Studies and Pharmacogenomic Implementation Using Evidence from Patient Drug Safety Data. **A.R. Eugene, B. Eugene, R. DiCenzo, A. Harralson.** Inova Center for Personalized Health, Bernard J. Dunn School of Pharmacy, Shenandoah University and Maria Curie-Skłodowska University, Poland.
- C272** LB642 Determination of Effective Dose Fifty (ED₅₀) of Scorpion Antivenom Against Scorpion Envenomation Using the Newly Developed Formula. **S. Alhaji Saganuwan.** University of Agriculture Makurdi, Nigeria.
- C273** LB643 Acetaminophen and Aspirin Overdose in an Extremely Preterm Neonate. **L. Pavlek, L. Rogers.** Nationwide Children's Hospital.
- C274** LB644 Induction of Neoplastic Transformation, AP-1 Signaling, PDCD4 Signaling, and DNA Damage by Copper Oxide Nanoparticles Involves ROS-Mediated MAPK Pathways in JB6 Cells. **T.L. Barber, J. Aldinger, A. Tenney, S. Leonard, A. Morris, M. Ding.** National Institute for Occupational Safety and Health and Centers for Disease Control and Prevention.
- C275** LB645 Neuroinflammatory Responses in a Mouse Model of Tetramethylenedisulfotetramine-Induced Status Epilepticus. **J. Calsbeek, E. Gonzalez, C. Boosalis, D. Zolkowska, M. Rogawski, P. Lein.** University of California, Davis.
- C276** LB646 Aqueous Extract of *Alhagi maurorum* Protects from Norfloxacin-Induced Hepato-Nephrotoxicity in Rats. **H. Ahmed Mohammed Ismail Khalifa, A. Shaban Abdelaziz Abdelrahman, R.P. Sahu.** Zagazig University, Egypt and Wright State University.
- C277** LB647 Glycine Formation Drives Bile Acid Toxicity in Sandwich-Cultured Human Hepatocytes. **N. Deferm, S. Chatterjee, L. Richert, P. de Witte, T. Bouillon, P. Annaert.** Katholieke Universiteit Leuven, Belgium, Biocon Bristol-Myers Squibb R&D Center (BBRC), India and KaLy-Cell, France.
- C278** LB648 Trichloroacetate-Induced Developmental Toxicity and the Production of Reactive Oxygen Species in Zebrafish Embryos (*Danio rerio*). **O.N. Issa, E.A. Hassoun, F.E. Williams.** University of Toledo and College of Pharmacy and Pharmaceutical Sciences.

- C279** LB649 *In Vitro* Model of Naphthalene Lung Epithelial Cell Toxicity Enabled by Human Hepatocyte Metabolism. **J.S. Kelty, X. Ding, L. Van Winkle.** University of California, Davis and University of Arizona.
- C280** LB650 Arsenic-Induced Perturbations in Cholinergic System and Energy Metabolism of Rat Brain: Ameliorative Effect of Vitamin-E. **B. Chinthirala, K. Konduru, E. Kozlova, M. Curras-Collazo.** University of California and Sri Venkateswara University, India.

LATE BREAKING: DRUG METABOLISM AND DISPOSITION (DMD)

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

Presentation time: 12:30 PM–2:30 PM

Board# Pub#

- C281** LB651 Molecular Dynamics Simulations Reveal That Tyrosine Nitration Leads to Destabilization of CYP2B6 Secondary Structure. **R. Wilderman, C-M. Lee, E. Morgan.** University of Connecticut School of Pharmacy and Emory University School of Medicine.
- C282** LB652 Confounding Effect of UGT1A1 Interindividual Variability on Inhibition of Its *In Vitro* Activity by Kinase Inhibitors. **N. Alade, A. Basit, H. Zhang, D. Bhatt, C. Collins, B. Prasad.** University of Washington.
- C283** LB653 Dynamic Culturing of Rat Hepatocytes in Sandwich-Configuration Enhances and Maintains Formation of Biliary Networks. **N. Deferm, J. Stam, P. de Witte, T. Bouillon, P. Annaert.** Katholieke Universiteit Leuven, Belgium.
- C284** LB654 Deficiency of *n*-Acetyltransferase Potentiates Isoniazid-Endobiotics Interactions and Contributes to Isoniazid Hepatotoxicity. **P. Wang, F. Li, J. Lu, D.M. Grant, X-B. Zhong, X. Ma.** University of Pittsburgh, Baylor College of Medicine, University of Toronto, Canada and University of Connecticut.
- C285** LB655 Difference in Internal Exposure Made New Weaned Mice More Susceptible to Hepatotoxicity of Retrorsine Than Adult Mice. **X. Yang, Y. Peng, J. Zheng.** Shenyang Pharmaceutical University, People's Republic of China.
- C286** LB656 Physiologically Based Pharmacokinetic Modelling of Atomoxetine with Regard to *CYP2D6* Genotypes. **S-Y. Lee, S-H. Kim, J-Y. Byeon, C-M. Lee, Y-H. Kim, Y.J. Lee, C-G. Jang.** School of Pharmacy, Sungkyunkwan University, Republic of Korea and College of Pharmacy, Dankook University, Republic of Korea.
- C287** LB657 Inhibition of CYP3A7 by Ritonavir and Lopinavir Leads to Adrenal Insufficiency in the Developing Infant by Blocking DHEA-S Oxidation. **S.E. Kandel, L.W. Han, Q. Mao, J.N. Lampe.** University of Kansas Medical Center and University of Washington.
- C288** LB658 Selecting Pharmacogenomic Variables That Influence Propofol Pharmacokinetic Mean Residence Times in Surgical Patients Using Machine Learning. **A.R. Eugene, B. Eugene.** Bernard J. Dunn School of Pharmacy, Shenandoah University and Maria Curie-Skłodowska University, Poland.

LATE BREAKING: CELLULAR AND MOLECULAR PHARMACOLOGY

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

Presentation time: 12:30 PM—2:30 PM

Board# Pub#

- C270** LB659 Molecular Insights into Tachyphylaxis Phenomenon in the Angiotensin II Type 1 Receptor. **D.A. Duarte, L.T. Parreiras-Silva, E.B. de Oliveira, M. Bouvier, C.M. da Costa-Neto.** University of São Paulo, Brazil and Institute for Research in Immunology and Cancer (IRIC), Canada.
- C271** LB660 Human A_{1A}-Adrenergic Receptor Phosphorylation, Internalization and Desensitization. **A.H. Rocio.** UNAM, Mexico.
- C272** LB661 Use of BRET-Based Biosensors to Characterize the Adhesion GPCR ADGRE5/CD97 Signalling Profile. **A. Maiga, E. Simard, R. Leduc, M. Bouvier.** IRIC, Université de Montréal, Canada and Faculty of Medicine and Health Sciences, Canada.
- C273** LB662 Lidocaine Blocks the Proliferation, Migration, and Epithelial-Mesenchymal Transition of Human Retinal Epithelial Cells. **Y.A. Kim, Y.H. Kwon, M.S. Woo.** Gyeongsang National University Changwon Hospital, Republic of Korea, Dong-A University, Republic of Korea and Gyeongsang National University, Republic of Korea.
- C274** LB663 Constitutive Activation of Stat Signaling in Fibroblast-Like Synoviocytes Derived from Patients with Juvenile Idiopathic Arthritis Is Inhibited by Methotrexate. **R. Singh, L. van Haandel, J.S. Leeder, M. Becker, R. Funk.** Arkansas College of Osteopathic Medicine, Children's Mercy Kansas City and University of Kansas.
- C275** LB664 Expression Profiles of eNOS, iNOS, Endothelin Receptors and MicroRNAs-27b, 155 and 199 in the Corpus Cavernosum of Rats Submitted to Chronic Alcoholism and Diabetes Mellitus. **F.S. Lizarte Neto, J.P. da Cunha, F.Z. Gonçalves, P.C. Novais, M.L.d.A. Cirino, F.R. Tavares Neto, G.S. Bisson, D.P.d. C. Tirapelli, L.F. Tirapelli, C.A.F. Molina, S. Tucci Junior.** Ribeirão Preto Medical School, University of São Paulo, Brazil.
- C276** LB665 Mustard Analogs of Acetylcholine: Irreversible Partial Agonists at Gq-Linked Muscarinic Receptors. **J. Ellis, G. Elmslie.** Penn State.
- C277** LB666 Regulation of the Nuclear PKA Holoenzyme. **T. Clister, V. Sample, J. Zhang.** University of California, San Diego and Johns Hopkins University.

LATE BREAKING: CANCER PHARMACOLOGY

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

Presentation time: 12:30 PM—2:30 PM

Board# Pub#

- C278** LB667 The Effect of Chronic Cadmium Exposure on Chemotherapy Sensitivity in Breast Cancer Cells. **C. Manabat, M. Bloomfield, M.C. Louie.** College of Pharmacy, Touro University California and Dominican University of California.
- C279** LB668 A Novel Role of Primary Cilia in Breast Cancer Recurrence. **J.E. Davis, A. Walens, N.W. Mabe, D. Fox, D. Hernandez, J.V. Alvarez, S.C. Goetz.** Duke University.

- C280** LB669 Antiproliferative Effects of Metformin in Triple Negative MDA-MB 231 Breast Cancer Cells Exposed to Glucose-Starved and 2-Deoxyglucose. **C. Triggie, Y. Majeed, S.M. Samuel, H.M. Ding.** Weill Cornell Medicine—Qatar, Qatar.
- C281** LB670 The Marine Natural Product Coibamide Targets Expression of HER Family Receptors. **S. Kazemi, J.D. Serrill, K.L. McPhail, J.E. Ishmael.** Oregon State University and City of Hope National Medical Center.
- C282** LB671 Interferon Regulatory Factor 3 and NF Kappa B Are Required for Expression of Immune Susceptibility Genes in Human Lung and Breast Carcinoma Cells Treated with Poly I:C. **J.M. Kester, E. Bortz.** University of Alaska Anchorage.
- C283** LB672 Lung Fibroblasts Modulate Human Breast Cancer Cell Sensitivity to Chemotherapy and Autophagy Inhibition in a 3-Dimensional Organotypic Co-Culture Model. **D. Regan, D. Gustafson.** Colorado State University.
- C284** LB673 Nanomedicine in Cancer Treatment: Efficacy and Toxicity Profile of Pegylated Liposomal Doxorubicin Compared to Conventional Doxorubicin: A Systematic Review and Meta-Analysis of Randomized Controlled Trials. **T.R. Kakwere, O.L. Tulp, G.P. Einstein.** University of Science, Arts and Technology Montserrat, Montserrat and Einstein Medical Institute.
- C285** LB674 Vitamin E Analogs as Chemotherapeutic Agents and Potentiators of Chemotherapy in PC-3 Human Prostate Cancer Cells. **A. Graham, R. Oblad, B. Barnes, M. Harmon, J. Kenealey.** Brigham Young University.
- C286** LB675 The Effect of Curcumin on P-Glycoprotein Function. **C-W. Peng, Y-N. Teng, C-C. Hung.** China Medical University, Taiwan.
- C287** LB676 Hormetic Response of H1299 Proliferation to Extracts of *Hydnora* Johannes Becc (Kausen Kasa) Is Mediated via Estrogen Receptor/EGFR and PKC. **M.O. Morgem, A.A. Oyagbemi, T.O. Omobowale, O. Fagbohun, A.A. Adedapo, M.A. Yakubu.** Texas Southern University and University of Ibadan, Nigeria.
- C288** LB677 Suppression of MiR-186 Attenuates Cellular Invasion, pAKT and β -Catenin in Metastatic Prostate Cancer Cell Models. **D. Jones, S.R. Suman, M.L. Schmidt, K.R. Hobbing, S. Barve, L. Gobejishvili, C. Klinge, S. Rai, G. Clark, G. Brock, R. Agarwal, L.R. Kidd.** University of Colorado Denver, University of Louisville and Ohio State University Medical College.
- C289** LB678 Therapeutic Effect of MC-4 in Combination with Everolimus Against Progressive Renal Cell Carcinoma by Double-Targeting of PTEN/Akt/PKM2 and mTOR1 Signaling Pathways. **K. Jiyeong.** Sungkyunkwan University Korea, Republic of Korea.
- C290** LB679 Structure Activity Relationship Study of Cape and Its Derivatives on Liver Carcinoma. **J. Nguyen, V. Bhawe, A. Hielscher, X. Wang.** Georgia Campus and Philadelphia College of Osteopathic Medicine.
- C291** LB680 Anticancer Activity of a Silyl Andrographolide Analogue Mediated Through Wnt/ β -Catenin Signaling in Colon Cancer Cells. **S. Reabroi, R. Saeeng, A. Chairoungdua, P. Piyachaturawat.** Faculty of Science, Mahidol University, Thailand, Faculty of Science and Burapha University, Thailand.
- C292** LB681 Inverse Agonist of ERR γ Inhibits the Cell Growth Through the Regulation of Cell Cycle and Apoptosis in Anaplastic Thyroid Cancer Cells. **J.S. Hwang, S.J. Cho, H. Hwang.** Daegu-Gyeongbuk Medical Innovation Foundation, Republic of Korea.

- C293** LB682 The Cannabinoid Receptor 2 Prevents Retinoblastoma Cell Migration. **C.M. Vecchini-Rodriguez, Y. Oquendo, G. Yudowski, J. Flores-Otero.** Institute of Neurobiology, University of Puerto Rico, Medical Sciences Campus, Comprehensive Cancer, Puerto Rico, University of Puerto Rico, Cayey Campus, Puerto Rico and Institute of Neurobiology, University of Puerto Rico, Medical Sciences Campus, Puerto Rico.
- C294** LB683 AKBA Exerts Anti-Tumor Effects in Glioblastoma Cells by Arresting Cell Cycle at G₂/M Phase. **J. Wang, W. Li, Y. Lyu, G. Du.** Institute of Materia Medica, People's Republic of China.
- C295** LB684 Anti-Cancer Effect of 2-Cyano-3,12-dioxoolean-1,9-dien-28-oic Acid (CDDO) Derivatives on Multiple Myeloma Cells. **L.J. Rogers, X. Wang.** Georgia Campus and Philadelphia College of Osteopathic Medicine.

- C296** LB685 Effect of Platelets and Their Pharmacological Regulation on Cancer Cell Immune Checkpoint PD-L1 Expression. **G.M. Lesyk, E. Poitras, P. Jurasz.** University of Alberta, Canada.

LATE BREAKING: PHARMACOGENOMICS AND TRANSLATIONAL PHARMACOLOGY

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

Presentation time: 12:30 PM–2:30 PM

Board# Pub#

- C297** LB686 The Effect of Antibiotics on Gut Microbiome: A Metagenomics Analysis of Microbial Shift and Antibiotic Resistance in Antibiotic Treated Mice. **L. Xu, A. Chockalingam, S. Stewart, Z. Li, R. Rouse.** U.S. Food and Drug Administration.

Physiology

TEACHING OF PHYSIOLOGY

WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION

Presentation time: 10:00 AM–12:00 PM

Board# Pub#

- LB221** LB221 2nd Grade Students Have PhUn Learning About Thermoregulation. **P. A. Halpin.** Life Sciences Department, University of New Hampshire at Manchester, Manchester, NH.
- LB222** LB222 The Relationship Between Student's Learning Motivation and Life Style in a Japanese Medical School. **M. Sato, Y. Miyata, K. Waseda, R. Aoki, C. Kwahara, N. Ban.** Aichi Medical University, Japan.
- LB223** LB223 Translation of Physiological Understanding (PhUn) Week Activities to a Larger Multi-Level Group of Students in a Scientific Environment Following Hurricane Maria. **C.D. Rodriguez-Flores, M. Cruz, A.P. Gonzalez-Charles, S. Brofen-Quinones, R. Rivera, M. Colon, D. Ramos, C.B. Appleyard, G. Chompre.** Pontifical Catholic University of Puerto Rico, Puerto Rico and Ponce Health Sciences University Medical School and Research Institute, Puerto Rico.
- LB224** LB224 Hemolymph Glucose Levels as a Measure of Crayfish Stress: A Methodology Using a Human Glucometer. **C. Caldari-Torres, W. Banta-Long, A. Bruss, E. Choi, H. Fiegel, M. Sherman Jollis, S. Ly, S. Viswanathan.** Denison University.
- LB225** LB225 Engaging Students in Authentic Research in Lab-Based Courses Increases Student Competency in Applying the Scientific Method and Increases Collaboration Between Teaching and Research Faculty. **L. Parks, J. Meitzen.** North Carolina State University.
- LB226** LB226 Atypical Use of Audience Response System Provides Opportunity to Formatively Assess Teaching and Improve Learning Outcomes. **M.K. Hopper, S.M. Wright, M. Carroll, E. Bauer, W.G. Carlos.** Indiana University School of Medicine.
- LB227** LB227 Who Perceives They're Smarter? Exploring the Influence of Student Characteristics on Student Academic Self-Concept in Physiology. **S. Brownell, K. Cooper, A. Krieg.** Arizona State University.
- LB228** LB228 Instruction Across an Educational Spectrum as a Tool for Building Teaching Skills in the Biomedical Sciences. **T.M. Gwathmey, A.C. Howlett.** Wake Forest School of Medicine.

COMPARATIVE AND EVOLUTIONARY PHYSIOLOGY

WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION

Presentation time: 10:00 AM–12:00 PM

Board# Pub#

- LB229** LB229 Characterization of the Glycosylation of Aquaglyceroporin HC-3 in Erythrocytes from the Freeze Tolerant Anuran, *Dryophytes chrysoscelis*. **D. Pezzutti, J. Frisbie, D. Goldstein, L. Geiss, C.M. Krane.** University of Dayton and Wright State University.
- LB230** LB230 Early-Life Sickness May Predispose Individuals to Behavioral Changes Following Gut Dysbiosis in Adulthood. **K.E. Sylvia, J.E. Deyoe, G.E. Demas.** Indiana University.
- LB231** LB231 Skeletal Muscle Non-Shivering Thermogenesis in Hibernating Arctic Ground Squirrels. **S.R. Oliver, J. Krishnan, J. Rogers, M. Hunstiger.** University of Alaska Fairbanks.
- LB232** LB232 Ventricular Activation Times in Rainbow Trout and Common Carp. **M.A. Vaikshnoraita, J. Azarov.** Institute of Physiology, Komi Science Center, Ural Branch, Russian Academy of Sciences, Russian Federation, Institute of Physiology, Komi Science Center, Ural Branch and Russian Academy of Sciences, Russian Federation.
- LB233** LB233 Newt-Derived Extracellular Vesicles Drive Mammalian Neuron Differentiation. **R.C. Middleton.** Cedars-Sinai Medical Center.
- LB234** LB234 Hissing Cockroaches May Save Water by Closing Their Spiracles. **A. Vrtar, B. Keene, H.L. Contreras.** University of La Verne.

TRANSLATIONAL PHYSIOLOGY

WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION

Presentation time: 10:00 AM–12:00 PMBoard# Pub#

LB235 LB235 Inflammatory Biomarker Association with Pulmonary Vasoconstriction Versus Blood Oxygenation in a Pig Model of Endotoxin-Induced Pulmonary Hypertension. **W.J. Sherman, D.H. Ho, L-A.M. Murata, J.W. Blythe, J.M. Piaggione, W.M. Ichimura, C.A. Hernandez, R. Laczko, C. Ueyhara.** Tripler Army Medical Center.

SEX DIFFERENCES IN PHYSIOLOGY

WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION

Presentation time: 10:00 AM–12:00 PMBoard# Pub#

LB236 LB236 Precision Medicine in Psychiatry by Predicting Lithium Treatment Response Using Gene Expression Biomarkers and Machine Learning. **A.R. Eugene, B. Eugene, J. Masiak.** Inova Center for Personalized Health, Bernard J. Dunn School of Pharmacy, Shenandoah University, Maria Curie-Skłodowska University, Poland and Medical University of Lublin, Poland.

LB237 LB237 Endothelin-1 Receptor Responses in Overweight Women. **S. Nathaniel, A.V. Kuczmarski, K. Haigh, M.M. Wenner.** University of Delaware.

LB238 LB238 Low-Flow-Mediated Constriction Is Reduced in Healthy Postmenopausal Women. **A. Kuczmarski, K. Sebzda, M. Wenner.** University of Delaware.

BIOMEDICAL ENGINEERING

WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION

Presentation time: 10:00 AM–12:00 PMBoard# Pub#

LB239 LB239 Intercellular Junctions and Endothelial Permeability Are Regulated by Cell Chirality. **J. Fan, P. Ray, Y.W. Lu, G. Kaur, J.J. Schwarz, L.Q. Wan.** Rensselaer Polytechnic Institute and Albany Medical College.

LB240 LB240 The Physiological and Biomechanical Study About the Passive Diastolic Modelling of the Heart Failure Rabbits Causing by Aortic Arch Banding. **X. Sun, D. Zhao, Y. Huo, W. Tan.** Peking University, People's Republic of China.

LB241 LB241 A Research About Single-Point Ligated Ischemic Heart Failure Rabbits in Physiology and Biomechanics. **D. Zhao, Y. Huo, W. Tan.** Peking University, People's Republic of China.

LB242 LB242 Human Foreskin Fibroblast Behavior in the Presence of 3D Collagen, Fibrin, and Calcium Phosphate. **K. Eckhart, A. Kniseley, B. Bucci, N. Vaghasia, B. Tawil.** California State University, Channel Islands.

LB243 LB243 Clinical Potential of Physical Microenvironment Stimulation for Wound Healing. **U.H. Ko, J. Choi, J. Choung, S. Moon, J.H. Shin.** Korea Advanced Institute of Science & Technology, Republic of Korea and Konkuk University, Republic of Korea.

ENVIRONMENTAL AND EXERCISE PHYSIOLOGY

WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION

Presentation time: 10:00 AM–12:00 PMBoard# Pub#

LB244 LB244 Cytokine Responses to Cyclical Blood Flow Restriction Exercise. **J. Sprick, S. Romero, C. Rickards.** University of North Texas Health Science Center.

LB245 LB245 Central Chemosensitivity Is Not Augmented During 60 min of Mild Hypercapnia in Healthy Adults. **C. Cruz, J.R. Sackett, Z.J. Schlader, B.D. Johnson.** University at Buffalo.

LB246 LB246 Aerobic Endurance Is Reduced Immediately After Repeated 6-hr Normoxic and Hyperoxic Dives at 1.35 ATA and Remains Reduced in the Hyperoxic Group 3 Days After the Last Dive. **E.R. Bergeron, J.P. Florian.** Navy Experimental Diving Unit.

LB247 LB247 Differential Response of mTOR and ERK Signaling in Human Skeletal Muscle Following Resistance Exercise and Acetaminophen Consumption. **A.C. D'Lugos, S.H. Patel, C.S. Fry, C.C. Carroll, J.M. Dickinson.** Arizona State University, Purdue University and University of Texas Medical Branch.

LB248 LB248 Effects of Acute Aerobic Exercise on Transcriptomics in Skeletal Muscle of Lean vs. Overweight/Obese Men. **P.P. Devarshi, A.D. Jones, E.M. Taylor, T.M. Henagan.** Purdue University.

LB249 LB249 Effects of Acute Aerobic Exercise on Acylcarnitine Metabolomics in Skeletal Muscle of Lean vs. Overweight/Obese Men. **P.P. Devarshi, A.D. Jones, E.M. Taylor, T.M. Henagan.** Purdue University.

LB250 LB250 Association of Multiple Short Exercise Bouts and Health Benefits in Sedentary Office Workers. **M.D. Choi, L.R. Jayanty, K. Landis-Piwowar.** Oakland University.

LB251 LB251 Improving Cardiac Function and Body Composition Through Incentive-Based Smartphone Application in Sedentary Overweight Adults. **M.D. Choi, A. Standridge, K. Landis-Piwowar.** Oakland University.

LB252 LB252 Potential Influence of Follistatin and Myostatin on Body Composition During the Yukon Arctic Ultra. **M. Johannsen, A. Schalt, J. Kim, R. Chen, M.S. Coker, H-C. Gunga, R.H. Coker, M. Steinach.** University of Alaska Fairbanks and Charité—Universitätsmedizin Berlin, Germany.

LB253 LB253 Effect of Age and Acute Exercise on Circulating Endostatin. **M.K. Temperley, B.R. Mardis, E. Iwamoto, J.M. Bock, D.P. Casey, M. Luttrell.** Drake University and University of Iowa.

LB254 LB254 Measurement of Renal Hemodynamics by Doppler Ultrasound During Sympathetic Activation While Heat Stressed. **J.M. Benati, C.L. Chapman, B.D. Johnson, P.C. Lema, E.A. Gideon, J.L. Abdul-Rashed, F.E. Solis, Z.J. Schlader.** University at Buffalo.

LB255 LB255 Aerobic Exercise and Environmental Heat Stress as Adjuvants to Seasonal Influenza Vaccine. **A. Colburn, S. Wright, V. Lopez, G. Giersch, L. Belval, Y. Hosokawa, R.A. Huggins, L. Armstrong, D.J. Casa, E.C. Lee.** University of Connecticut.

LB256 LB256 Heat Shock Protein Response During a Prolonged Ultraendurance Cycling Event in Hot and Humid Conditions. **V. Lopez, A.T. Colburn, S.S. Wright, E.C. Dadzie, L. Armstrong, J. Vingren, J. Boyett, B. McDermott, C. Butts, C. Melford, C. Munoz, L. Kunces, A. Seal, E.C. Lee.** University of Connecticut, University of North Texas, University of Arkansas and University of Hartford.

- LB257** LB257 Effect of Skeletal Muscle Carnosine Content on Apoptotic Signaling. **D.D. Church, J.R. Hoffman, J.R. Townsend, A.R. Jajtner, K.S. Beyer, L. Oliveira, D.H. Fukuda, J.R. Stout.** University of Central Florida, Lipscomb University, Kent State University, Bloomsburg University and University of Chicago Medical Center.
- LB258** LB258 Potential Role of Structural Variants of Circulating Lipopolysaccharide in Exercise-Induced Heat Illness. **S. Wright, Y. Hosokawa, E.C. Dadzie, V. Lopez, A.T. Colburn, J.J. Bivona, S.N. Thorton, W.M. Adams, C. Brown, R.K. Katch, R.A. Huggins, R.L. Stearns, J.F. Jardine, R.J. Davis, D.J. Casa, E.C. Lee.** University of Connecticut, University of Vermont, Cornell University and Falmouth Hospital.
- LB259** LB259 Cardiovascular and Metabolic Effects of Exercise Training in High-Fat Diet-Fed Ovariectomized Mice: Comparison Between Moderate Intensity Continuous vs. High Intensity Interval Training. **B. Nascimento-Carvalho, A. Santos, N.C. Santos, A.P. Assis, M-C.C. Irigoyen, K. De Angelis, E.C. Caperuto, K.B. Scapini, I.C. Sanches.** São Judas Tadeu University, Brazil, University of São Paulo, Brazil and Federal University of São Paulo, Brazil.
- LB260** LB260 Vaper: The Development of Spaceflight Associated Neuro-ocular Syndrome (SANS) During Hypercapnic 6° Head-Down Tilt Bed Rest; *SANS Sufficient Sleep?*. **K.H. Christian, C.S. Petitti, K.E. Ortega-Schwartz, B.R. Macias, S.M. Lee, M.B. Stenger, A.T. Lovering, S.S. Laurie.** University of Oregon, Sacred Heart Medical Center, KBRwyle, and NASA, Johnson Space Center.
- LB261** LB261 Perceptual Responses to Exercise Heat-Stress in Smokers Versus Non-Smokers. **K.J. Kennedy, A. Caldwell, N. Garcia, M. Upton, K. Hartzell, M. Ganio.** University of Arkansas.
- LB262** LB262 Effects of Caffeine and Menstrual Phase on Performance of Female Athletes During Heat Stress. **M.M. Rutherford, M.S. Palmer.** St. Francis Xavier University, Canada.
- LB263** LB263 Ergogenic Effects and Potential Synergism of Combined Doxapram and Acetazolamide in Hypoxic Rats. **T. Schroeder, K. Hamilton, D. Irwin.** University of Mainz, Germany, Colorado State University and University of Colorado Denver.
- LB264** LB264 Cerebral Autoregulation During Exposure to Artificial Gravity. **F. Sanjana, A. Knox, M. Falvo, J. Evans, C. Knapp, J. Serrador.** War Related Illness and Injury Study Center, Department of Veterans Affairs, Rutgers Biomedical Health Sciences and University of Kentucky.
- LB265** LB265 No Changes Observed in Circulating Tumor Necrosis Factor-Alpha or Receptors Following Prolonged Exercise in a Cold Environment. **A.R. Jajtner, E. Arroyo, B.N. Followay, J.A. Vaughan, J.A. Laudato, B.M. Gibson, E.L. Glickman.** Kent State University.
- LB266** LB266 Sympathetic Neuro-Hemodynamic Transduction at Rest in Subjects with Low and High Tolerance to Simulated Blood Loss. **N. van Helmond, S.E. Baker, J. Bukartyk, A.D. Miller, V.A. Convertino, M.J. Joyner.** Thomas Jefferson University, Mayo Clinic and U.S. Army Institute of Surgical Research.
- LB267** LB267 The Effects of Ashtanga Yoga on Circulating Adipokines and Inflammatory Associated miRNAs. **M.J. Abbott, T.J. Killian, C.S. Walsh, V.T. Yim.** Chapman University.
- LB268** LB268 Inhibition of Medial Preoptic Area Improves Physical Performance in Trained Rats. **F.C. Müller-Ribeiro, S.P. Wanner, L. Drummond, H.O. Campos, C.C. Coimbra.** Universidade Federal de Minas Gerais, Brazil.
- LB269** LB269 Ischemic Preconditioning Improves Maximal Accumulated Oxygen Uptake and Time to Exhaustion in NCAA Division I Middle-Distance Runners. **G.P. Van Guilder, E. Paull, M. Wilson.** South Dakota State University.
- LB270** LB270 Tumor Necrosis Factor-Alpha, TNFR1, and TNFR2 Responses to Exercise in the Heat. **E. Arroyo, B.N. Followay, J.A. Vaughan, J.A. Laudato, B.M. Gibson, E.L. Glickman, A.R. Jajtner.** Kent State University.
- LB271** LB271 Are Improvements in Skeletal Muscle Oxidative Capacity Possible in the Elderly? **S. Chung, R. Rosenberry, P.S. Bhella, S. Park, T. Dombrowsky, F.A. Ogidan, M.J. Haykowsky, M.D. Nelson.** University of Texas at Arlington and John Peter Smith Health Network.
- LB272** LB272 Exercise in a Warm Condition Enhances Plasma Volume Expansion Compared to a Cool Condition with an Increased Skin but Not Core Temperature. **K. Okazaki, R. Takeda, D. Imai, E. Kawai, A. Ota, G. Hanno, E. Morita, H. Yokoyama.** Osaka City University Graduate School of Medicine, Japan.
- LB273** LB273 The Effects of Core and Skin Temperatures and Dehydration on Heart Rate Response During Interval Exercise in Warm and Cool Conditions. **R. Takeda, D. Imai, E. Kwai, A. Ota, G. Hanno, E. Morita, Y. Suzuki, H. Yokoyama, K. Okazaki.** Osaka City University, Japan.

MICROCIRCULATION

WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION

Presentation time: 10:00 AM—12:00 PM

Board# Pub#

- LB274** LB274 Effects of Transcutaneous Carbon Dioxide (CO₂) on Hyperglycemia-Induced Capillary Regression in Skeletal Muscle. **T. Matsumoto, M. Takuwa, T. Hirabayashi, T. Ikeji, K. Ono, N. Maeshige, H. Kondo, H. Fujino.** Kobe University Graduate School of Health Sciences, Japan and Nagoya Women's University, Japan.
- LB275** LB275 Glycocalyx Degradation Impairs Endothelial Function in Cultured Cells and a Mouse Model of Type 2 Diabetes. **T. Gharone, C.A. Foote, J. Padilla, L.A. Martinez-Lemus.** Dalton Cardiovascular Research Center.
- LB276** LB276 Increased Subpleural Pulmonary Arteriolar Tone Associated with Inhibition of Nitric Oxide Synthase in a Mouse Model of Type-1 Diabetes. **A.M. Roberts, R. Jagadapillai, N. Moulana, L. Cai, E. Gozal.** University of Louisville School of Medicine.
- LB277** LB277 Absence of Endothelial Estrogen Receptor Alpha Decreases Arterial Stiffness and Induces Hypertrophic Remodeling in Angiotensin II Infused Female Mice. **F.I. Ramirez-Perez, A.M. Lising, G. Lastra, C. Manrique-Acevedo, L.A. Martinez-Lemus.** University of Missouri.
- LB278** LB278 Induction of Inward Arterial Remodeling Is Ameliorated *in Vivo* by Inhibition of Actin Polymerization Dynamics in a Mouse Model of Hypertension. **C.A. Foote, J.A. Castorena-Gonzalez, J. Padilla, L.A. Martinez-Lemus.** University of Missouri.
- LB279** LB279 Implications-Enzymatic Degradation of the Endothelial Glycocalyx on the Microvascular Hemodynamics and the Arteriolar Red Cell Free Layer of the Rat Cremaster Muscle. **V.P. Jani, O. Yalcin, P.C. Johnson, P. Cabrales.** University of California, San Diego and Koç University, Turkey.

- LB280** LB280 Impaired Coronary Collateral Growth in a Mouse Model of Diabetes. **D. Cumpston, W. Wan, S. Chinchilla, C. McCabe, M. Enrick, S. Shoenbeck, W. Chilian, L. Yin.** Northeast Ohio Medical University, University of Cincinnati and Kent State University.
- LB281** LB281 Diverging Roles of Inflammation, Glycocalyx Degradation, and Nitric Oxide Signaling in the Coordination of Microvascular Perfusion. **P.M. McClatchey, N. Mignemi, O.P. McGuinness, D. Wasserman.** Vanderbilt University.
- LB282** LB282 Microvascular Dysfunction, Inflammation and Tissue Injury in Polymicrobial Sepsis. **P.M. Kowalewska, C.G. Ellis.** University of Western Ontario, Canada.

CARDIOVASCULAR

WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION

Presentation time: 10:00 AM—12:00 PM

Board# Pub#

- LB283** LB283 Expression of Endothelin Type B Receptors (EDNRB) on Smooth Muscle Cells Is Controlled by Ternary Complex Factors and the Actin Cytoskeleton. **K.K. Krawczyk, G. Freja Skovsted, L. Perisic, C. Rippe, R. Dreier, J.O. Berg, J. Lykkesfeldt, U. Hedin, K. Swärd.** Lund University, Sweden, University of Copenhagen, Denmark, Karolinska Universitetssjukhuset, Sweden, Amager Hvidovre Hospital Glostrup, Denmark and Herlev Hospital, Denmark.
- LB284** LB284 An Asymmetry Fractal Tree Model of the Spatial Heterogeneity of Myocardial Flow. **J. Li, Y. Huo.** Peking University, People's Republic of China.
- LB285** LB285 Effect of Prehypertension and Blood Pressure Reactivity on Orthostatic Response in Young Men: Relationship with HF and LF HRV Power. **V.E. Shekh.** V. N. Karazin Kharkiv National University, Ukraine.
- LB286** LB286 Increased Intracellular Lipid Accumulation in Cholesterol Loaded VSMCs Upon MRTFA Overexpression. **A. Alajbegovic, J. Holmberg, M. Ekman, S. Albinsson.** Lunds University, Sweden.
- LB287** LB287 Compensatory Regulation of Extracellular Pyrophosphate Metabolism in Vascular Smooth Muscle Cells During Early Calcification. **R. Villa Bellosta.** IIS-Fundación Jiménez Díaz, Spain.
- LB288** LB288 ARA290, a Small Non-Hematopoietic Peptide Derived from Erythropoietin, Prolongs Healthspan and Attenuates Age-Associated Declines in the Heart's Structure and Function. **A. Nanavati, J. Moen, J. Axsom, M. Krawczyk, N. Petrashevskaya, M. Beyman, C. Ramirez, I. Alfaras, S. Mitchell, M. Bernier, C. Morrell, S. Sollott, M. Juhaszova, R. deCabo, E. Lakatta.** National Institute on Aging, National Institutes of Health.
- LB289** LB289 Pre-Eclampsia and Future Cardiovascular Disease: Role of Circulating Micro-RNAs. **C. Delles, K. Schlosser, N. Dayan, A. Kaur, D.J. Stewart, L. Pilote.** University of Glasgow, United Kingdom, Ottawa Hospital Research Institute, Canada and McGill University Health Centre, Canada.
- LB290** LB290 Role of Vascular Ferrochelatase Dereglulation in the Progression of Monocrotaline-Induced Pulmonary Arterial Hypertension in Rats. **R.O. Alhawaj, E. Ghadhanfar, S. Cherian.** Kuwait University, Kuwait.
- LB291** LB291 Hypertension Alters Gut Microbial Metabolites. **M.U. Cheema, J. Pluznick.** Department of Physiology, Johns Hopkins University School of Medicine.
- LB292** LB292 Empagliflozin Effects on Ischemic Contracture and I/R Injury in Isolated Mouse Hearts Perfused with or Without Insulin. **L. Uthman, R. Nederlof, O. Eerbeek, A. Baartscheer, N. Buchholtz, R. Coronel, M.W. Hollmann, N.C. Weber, C.J. Zuurbier.** Academic Medical Center and Amsterdam, Netherlands.
- LB293** LB293 Hemodilution Improves Shear-Mediated Transduction of Vasodilatory Signals in Human Cerebral and Systemic Circulations. **R.L. Hoiland, J. Tremblay, D. Flück, C. Willie, K.J. Smith, M.M. Tymko, C.A. Howe, J. Donnelly, M. Stembridge, A. Patrician, M. Rieger, A. Hansen, G. Coombs, A. Santoro, D. Green, D. MacLeod, P. Ainslie.** University of British Columbia Okanagan, Canada, Queens University, Canada, University of Western Australia, Australia, University of Cambridge, United Kingdom, Cardiff Metropolitan University, United Kingdom and Duke University.
- LB294** LB294 Sodium Nitroprusside Induced Vasodilatation Encompasses Cerebral Blood Flow in Young Men. **N.D. Olesen, M. Fischer, N.H. Secher.** Rigshospitalet, Denmark.
- LB295** LB295 O-GlcNAc Transferase Regulates Phenotypic Transformation of Vascular Smooth Muscle Cells in Response to Hyperglycemia. **P. Raman, A. Mathias, A. Patel, D. Singh, K. Storm.** Northeast Ohio Medical University and Kent State University.
- LB296** LB296 Isolation of a Viable, Highly Purified Cardiac Fibroblast Fraction Devoid of Epicardial Cells from the Infarcted Murine Heart. **C. Owenier, C. Alter, J. Hesse, J. Schrader.** Uniklinik Düsseldorf, Germany.
- LB297** LB297 Mitochondrial-Targeted H₂S Donor (AP39) Ameliorates Doxorubicin-Induced Cardiomyopathy. **S. Veeranki.** University of Louisville.
- LB298** LB298 Butanol Extract of *Morinda lucida* (Beml) Protects Against Isoproterenol-Induced Myocardial Infarction in Wistar Rats. **K. Adenipekun, T. Omóbòwálé, A. Oyagbemi, A. Adedapo, A. Ashafa, M. Yakubu, O. Adejumbi, O. Ola-Davies, T. Ajibade.** University of Ibadan, Nigeria, University of the Free State, South Africa and Texas Southern University.
- LB299** LB299 Influence of Beta-1 Adrenergic Receptor Genotype on Cardiovascular Response to Exercise in Healthy Subjects. **E.F. Kelley, E.M. Snyder, B.D. Johnson.** University of Minnesota and Mayo Clinic.
- LB300** LB300 Hookah Smoking Causes an Acute Adverse Effect on Arterial Stiffness and Wave Reflections in Young Adults. **M. Rezk-Hanna, L. Doering, W. Robbins, L. Sarna, R.M. Elashoff, R.G. Victor.** University of California, Los Angeles and Cedars-Sinai Medical Center.
- LB301** LB301 The Effects of Triptolide on Inflammatory Responses in Endothelial Cells. **Y. Wang, C. Song, S. Liu, L. Cui, Y. Gao, S. Shen, M. Zhu, H. Xu.** First Affiliated Hospital, Henan University of Traditional Chinese Medicine, People's Republic of China and Michigan State University.
- LB302** LB302 A Thermoneutral Environment Abolishes Age-Associated Reduction in Heart Rate Variability in Mice. **J. Axsom, A. Nanavati, C. Rutishauser, E. Bonin, I. Ahmet, J. Moen, E.G. Lakatta.** National Institute on Aging, National Institutes of Health.
- LB303** LB303 Paradoxical Effects of Overexpressing Human Catalase on Vascular Function and Atherosclerotic Plaque Composition in Hypercholesterolemic Mice. **B.B. Roos, C.M. Roos, M.A. Hagler, B. Zhang, J.D. Miller.** Mayo Clinic.
- LB304** LB304 Regional and Sex Differences in Cerebral Vasomotor Reactivity to Carbon Dioxide. **J. Liu, M.J. Falvo, K. Brewer, M.E. Favre, J.M. Serrador.** Rutgers New Jersey Medical School and Department of Veteran Affairs, War Related Illness and Injury Study Center.

- LB305** LB305 The Electrophysiological Analysis of Ouabain Sensitivity of Mouse and Guinea Pig Sinoauricular Node Cells. **E. Lebedeva, N. Pasatetskaya, M. Gonotkov, V. Nuzhny, E. Lopatina, V. Golovko.** Institute of Physiology, Komi Science Centre, the Ural's Branch of the Russian Academy of Sciences, Russian Federation and Federal V.A. Almazov North-West Medical Research Centre, Russian Federation.
- LB306** LB306 Magnesium Deficiency Attenuates Vascular Smooth Muscle Contraction in Rat Aorta. **T. Iesaki, R. Kakigi, M. Watanabe.** Juntendo University and Faculty of Medicine, Japan.
- LB307** LB307 The Effect of Paced Breathing at the Resonance Frequency on Nonlinear Features of Heart Rate Variability. **A. Ivanova, D. Dimitriev, E. Saperova.** Chuvash State Pedagogical University, Russian Federation.
- LB308** LB308 Patterns of Conduit Artery Shear Stress Across the Menopause Transition. **Y.B. Somani, D.J. Moore, J-K. Kim, J.U. Gonzales, S. Elavsky, D.N. Proctor.** Penn State, Penn State Harrisburg, Penn State College of Medicine, Texas Tech University and Masaryk University, Czech Republic.
- LB309** LB309 Endothelial Dysfunction Can Be Reversed in Obese Humans and Mice by Overexpression of Endothelial Kir2.1 Channels. **I.S. Fancher, C.S. Adamos, S.J. Ahn, S.A. Phillips, I. Levitan.** University of Illinois at Chicago and Yale University.
- LB310** LB310 Photobiomodulation and Exercise Training Contribute to Protect the Cardiovascular System in Experimental Monoarthritis. **S.R. Zamuner, L.F. Zamuner, M.D.P.A. Silva, K.D. Angelis, M.C. Chavantes.** Universidade Nove de Julho, Brazil.
- LB311** LB311 Implications for Growth Differentiation Factor-11 in Cardiovascular Disease and Metabolic Syndrome. **A. Jamaifar, Y. Xu, W. Wan, M. Enrick, C.L. Kolz, Y. Zhang, W.M. Chilian, L. Yin.** Northeast Ohio Medical University.
- LB312** LB312 Cardiovascular Characterization of Young and Aged, Female and Male APOE4 Mice. **B. Hoxha, J. Vallejo-Elias, C. Jones, J. Powell, T. Virden, T.B. Jones, D.M. Eckman.** Midwestern University.
- LB313** LB313 Functional Cardiac Differences in Young Adults Born Premature, Assessed by MRI. **R. Centanni, K. Haraldsdottir, A. Beshish, K. Goss, M. Palta, M. Eldridge.** University of Wisconsin—Madison.
- LB314** LB314 Tempol Prevents Hypertension in Maternal High Fat-High Sucrose Diet Programmed Rats. **J.W. Polson, S.K. Jayaratne.** University of Sydney, Australia.
- LB315** LB315 The Assessment of Electrophysiological Indices and ECG Parameters as Predictors of Fatal Arrhythmias Under Ischemia/Reperfusion Setting in Multivariate Regression Model. **O. Bernikova, J. Azarov, K. Sedova.** Institute of Physiology, Komi Science Center, Ural Branch, Russian Academy of Sciences, Russian Federation and Czech Technical University, Czech Republic.
- LB316** LB316 Pulmonary Vasoconstriction and Vascular Remodeling Play Role in Reactive Pulmonary Hypertension in Rats. **I. Odintsov, M. Chovanec, A. Banasova, V. Hampl, J. Herget.** Second Faculty of Medicine, Charles University, Czech Republic and Na Homolce Hospital, Czech Republic.
- LB317** LB317 The Potential Impact of Succinic Acid Treatment on Age Associated Vascular and Vascular Mitochondrial Dysfunction. **S. Ives, T. Reynolds, C. Eddy, G. O'Brien, C. Slocum, L. Gortstein, D. Escudero.** Skidmore College.
- LB318** LB318 Evaluation of Cardiovascular Structure and Function in Young and Aged Female APOE3 and APOE4 Mice. **B. Hoxha, C. Jones, J. Vallejo-Elias, J. Powell, T. Virden, T.B. Jones, D.M. Eckman.** Midwestern University.
- LB319** LB319 On the Mechanism of Flow Sensing by Guinea Pig Carotid Endothelial Cells. **R. Espinosa-Tanguma, A. Hernández-Méndez, R. Espinosa-Tanguma.** Universidad Autónoma De San Luis Potosí, Mexico.
- LB320** LB320 The Effect of Exercise on Purinergic Receptor-Mediated Cerebrovascular Dysfunction in Alzheimer's Disease. **J. Hong, J. Lee, J. Eriksen, Y. Park.** University of Houston.
- LB321** LB321 Cardiovascular Responses to Selected Cranial Osteopathic Manipulations in Hypertensive Patients. **M. Ioudina, E. Toder, A. Muyot, L. Salloum, S. Boo, J. Concepcion.** Touro University Nevada.
- LB322** LB322 Understanding Heart Rate and Blood Pressure in Older Adults During Ongoing Single-Task and Dual-Task Balance Testing Protocols. **C. Dickens, K.E. Bigelow, A.R. Crecelius.** University of Dayton.
- LB323** LB323 Cerebral Autoregulation and Cerebrovascular Reactivity Is Similar in African American and Caucasian Males Despite Different Blood Pressures and Anterior Cerebral Artery Flow Velocities. **A. Knox, M. Favre, Y. Haber, M. Falvo, J. Serrador.** Rutgers New Jersey Medical School.
- LB324** LB324 Interactions of Angiotensin Converting Enzyme 2 with Fascin-1 as a Novel Mechanism in Regulation of Its Enzymatic Activity. **B. Ogunlade, J.J. Guidry, E. Lazartigues, C. Filipeanu.** Department of Pharmacology, Howard University and Louisiana State University Health Sciences Center.
- LB325** LB325 Effects of Exercise Training and TrkB Blockade on Cardiac BDNF-TrkB Signaling Post Myocardial Infarction in Rats. **H.W. Lee, M. Ahmad, H-W. Wang, F.H. Leenen.** University of Ottawa Heart Institute, Canada.
- LB326** LB326 Angiotensin II Activates the Expression of Inflammatory Markers and the Migration of Inflammatory Cells into the Aorta of Normotensive Mice. **R. Lima, J.C. Silva, C.T. Lima, L.E. de Souza, M.B. da Silva, M.G. Baladi, M.C. Irigoyen, S. Lacchini.** Institute of Biomedical Sciences, University of Sao Paulo, Brazil, Heart Institute and University of São Paulo Medical School, Brazil.
- LB327** LB327 Endothelium-Dependent Vasorelaxation and Blood Pressure Are Preserved in Mice with Chronic Hyperendothelinemia. **Z.I. Grunewald, T. Jurrissen, J.R. Ball, M. Woodford, L. Walsh, S. Ramirez, S. Brown, A. Aroor, P. Paradis, E. Schiffrin, S. Bender, L. Martinez-Lemus, J. Padilla.** University of Missouri and McGill University, Canada.
- LB328** LB328 Protective Mechanisms of Physical Activity in Vascular Dysfunction in High-Fat Diet-Induced Obesity via Attenuation of NLRP3 Inflammasome Activation in Mouse Aorta. **J. Lee, J. Hong, M. Umetani, E. LaVoy, Y. Park.** University of Houston.
- LB329** LB329 Changes in Peak Oxygen Uptake (VO_{2peak}) Following Renal Transplant: Results After 3-Year Follow-Up. **C.M. Bushroe, H.A. Chakker, S.S. Angadi.** Arizona State University—Downtown Phoenix Campus and Mayo Clinic Arizona.
- LB330** LB330 Cardiac Anxiety. **C. Ramirez, I. Ahmet, A. Nanavati, K. Tsutsui, S. Marshall, E. Lakatta.**
- LB331** LB331 The Effects of Localized Heating on Insulin-Stimulated Leg Blood Flow. **L. Walsh, C. Manrique-Acevedo, L. Martinez-Lemus, J. Padilla.** University of Missouri.
- LB332** LB332 Impact of MicroRNA-21 Knockout on Coronary Collateral Growth in Metabolic Syndrome. **C. Juguilon, A. Jamaifar, Y. Xu, W. Wan, D. Cumpston, J. Gadd, M. Enrick, C. Kolz, Y. Zhang, W.M. Chilian, L. Yin.** Northeast Ohio Medical University.

- LB333** LB333 All-Extremity High-Intensity Interval Training and Moderate-Intensity Continuous Training Improve Aerobic Fitness and Cardiac Function in Type 2 Diabetes. **D.D. Christou, C-L. Hwang, J. Lim, J-K. Yoo, H-K. Kim, M-H. Hwang, E.M. Handberg, J.W. Petersen, B.J. Holmer, S.S. Lapierre, Y. Sakarya.** University of Florida and Incheon National University, Republic of Korea.
- LB334** LB334 Effect of Combined Physical Training on Vascular Reactivity of Heart Failure Rats. **M.T. Fontes, G.K. Couto, L.V. Rossoni.** University of Sao Paulo, Brazil.
- LB335** LB335 Minimally-Invasive Serial Assessment of Left-Ventricular Pressure-Volume Relationships in Rats: Pilot Evaluation in the Setting of Normal and Impaired Diastolic Function. **C.L. del Rio, C. Zambataro, H. Bogie, J. Yucel, B. Ferguson, M. Henze, S. Fernandes, M. Evanchik.** MyoKardia and Data Sciences International (DSI)
- LB336** LB336 The Effects of Short-Term Versus Long-Term Exercise on Reducing Infarct Size After Ischemia-Reperfusion in Male and Female Rat Hearts. **J.J. Sepe, L.E. McKay, T.A. Hacker, G.M. Diffie.** University of Wisconsin—Madison.
- LB337** LB337 Resuscitation from Hemorrhagic Shock with High Molecular Weight Polymerized Hemoglobin. **A.T. Williams, A. Palmer, P. Cabrales.** University of California, San Diego and Ohio State University.
- LB338** LB338 Use of Logistic Regression to Determine Parameter Ability for Recovery Prediction in Experimental Rat Hemorrhagic Shock Model. **A. Lucas, A.T. Williams, P. Cabrales.** University of California, San Diego.
- LB339** LB339 Myocardial Impairments Rather Than Rhythm Status Contributes to Exercise Intolerance in Patients with Atrial Fibrillation. **A. Elliott, C. Verdicchio, C. Gallagher, D. Linz, R. Mahajan, P. Sanders.** University of Adelaide, Australia.
- LB340** LB340 Exercise Pressor Reflex and Carotid Chemoreflex Interaction: Consequences for the Cardiovascular Response to Exercise in Healthy Humans. **H-Y. Wan, J. Weavil, T. Thurston, T. Hureau, V. Georgescu, A. Bledsoe, M. Buys, J. Jessop, R. Richardson, M. Amann.** University of Utah.

WATER AND ELECTROLYTE HOMEOSTASIS

WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION

Presentation time: 10:00 AM—12:00 PM

Board# Pub#

- LB341** LB341 Differential Regulation of sFlt-1 in Response to VEGF Family-Based Therapeutics in Endothelial Cells. **H. Chapman, A.C. Eddy, L. Williams, K. Moore, E.M. George.** University of Mississippi Medical Center.
- LB342** LB342 Preeclampsia Induces the Acquired Salt-Sensitivity Characteristics via Increased Vasopressin Secretion in the Postpartum Stage. **K. Shinohara, T. Matsuura, Y. Hirooka, H. Tsutsui.** Kyushu University, Japan and International University of Health and Welfare, Japan.
- LB343** LB343 An Atherogenic Diet Exacerbates Vascular Injury in an Experimental Model of Systemic Lupus Erythematosus. **T. Coleman, D. McClung, M.J. Ryan, E.B. Taylor.** University of Mississippi Medical Center.
- LB344** LB344 Altered Hormone Receptor Expression in Rat Placenta Following Maternal Vertical Sleeve Gastrectomy. **B.E. Grayson, A.R. Himel, W.J. Lawson, R.A. Spann.** University of Mississippi Medical Center.

- LB345** LB345 Chronic Fluid and Electrolyte Imbalance Contributes to Brain Inflammation and the Development of Cardiovascular Complications in Streptozotocin-Treated Diabetic Rats. **O.A. Alzahrani, H.H. Habeeballah, E.A. Alahmadi, E. Badoer, M. Stebbing.** RMIT University, Australia and Florey, Australia.

RENAL PHYSIOLOGY

WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION

Presentation time: 10:00 AM—12:00 PM

Board# Pub#

- LB346** LB346 Metabonomic Signatures and Nitric Oxide Pathway Perturbations in Patients with End Stage Renal Disease. **K.M. Staton, S. Berceci, Z. Jiang, J. Rozowsky, E. Quinlivan, T. Garrett, C. Kuppler.** University of Florida.
- LB347** LB347 Acute Kidney Injury in Pregnancy and HELLP Syndrome. **K. Wallace, J. Szczepanski, S-K. Spencer, J.M. Williams, A. Jayaram, S. Novotny.** University of Mississippi Medical Center.
- LB348** LB348 A Novel Mouse Model of Kidney Fibrosis Induced by Glomerulus-Specific Overexpression of the Full-Length of Human Transforming Growth Factor- β 1 Gene. **A. Takeshita, T. Yasuma, K. Hozumi, K. Nishihama, C.N. D'Alessandro-Gabazza, T. Totoki, M. Toda, Y. Yano, E.C. Gabazza.** Mie University, Japan.
- LB349** LB349 Differences in Cell Proliferation in the CPK and PKD1 Mouse Models of Polycystic Kidney Disease. **M. Rumschlag, C. Holthaus, M. Ellis, E. Swayze, A. Zebolsky, E. Larson, G. Vanden Heuvel.** Western Michigan University and Homer Stryker M.D. School of Medicine.
- LB350** LB350 Effects of an Aerobic Physical Exercise Session on Inflammatory Markers IL-6, IL-10 and TNF- α in Patients with Chronic Renal Disease (DRC) Stage 3. **W.P. Pinto, R.A. Rezende, A.M. Júnior, R.D.O. Barginha, M.A. Dalboni, T. Tinucci.** Universidade Nove de Julho, Brazil and Universidade de São Paulo, Brazil.
- LB351** LB351 Effects of Resistance Exercise on Kidney Antioxidant Enzymes of Rats Treated with Doxorubicin. **R. Busekrus, D.S. Hydock, A. Tigner, M. Kaufenberg, S. Hook, E. Bredahl.** University of Northern Colorado and Creighton University.
- LB352** LB352 Establishing an in Vitro Model of Olfactory Receptor 78-Mediated Renin Release. **B. Poll, J. Pluznick.** Johns Hopkins University School of Medicine.
- LB353** LB353 Nephrylsin Inhibition by an Antisense Oligonucleotide (ASO) Ameliorates Kidney Damage in a Salt-Induced Rat Chronic Kidney Disease Model. **S.T-Y.Yeh, A. Mullick, C. Kuo, M. Graham, R. Croke.** Ionis Pharmaceuticals.
- LB354** LB354 Augmented Myogenic Constriction in the SHR Pre-Glomerular Renal Arteries Protects the Kidneys from Elevated Blood Pressure. **S. Nademi, C. Lu, R.E. Carlisle, J.G. Dickhout.** McMaster University, Canada and St. Joseph's Healthcare Hamilton, Canada.
- LB355** LB355 Empagliflozin Inhibits NHE3 Activity in the Proximal Tubule of Normotensive and Hypertensive Rats. **F.A. Borges Jr., C.A. Silva, R.O. Crajoinas, R.C. Castelo-Branco, W.M. Luchi, A.C.C. Girardi.** University of Sao Paulo, Brazil and Federal University of Espirito Santo, Brazil.
- LB356** LB356 Early Type 2 Diabetic Urothelium Exhibits Increased Cellular Senescence and an Inhibitory Effect on Detrusor Force. **N.S. Klee, R.C. Webb.** Augusta University.

GASTROINTESTINAL AND LIVER PHYSIOLOGY

WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION

Presentation time: 10:00 AM–12:00 PM

Board# Pub#

- LB357** LB357 The Effect of Fennel (*Foeniculum vulgare*) on the JAK/STAT Pathway and Intestinal Barrier Function. **J. Rabalais, P. Kozan, T. Lu, N. Durali, M.D. McGeough, R. Marchelletta, J.B. Lee, K. Barrett, M. Sivagnanam.** University of California, San Diego.
- LB358** LB358 An Organoid Model to Study the Effect of Bacterial Metabolites on the Intestinal Epithelium. **S.C. Pearce, N.J. Ferguson, J.P. Karl, S.M. Arcidiacono, J.W. Soares, D.T. Breault, K. Racicot.** U.S. Army Natick Soldier Research Development and Engineering Center, University of Rhode Island, U.S. Army Research Institute of Environmental Medicine and Boston Children's Hospital.
- LB359** LB359 Bifidobacterium Grown on Human Milk Oligosaccharides Produce Tryptophan Metabolite Indole-3-Lactic Acid That Significantly Decreases Inflammation in Intestinal Cells in Vitro. **A.M. Ehrlich, B. Henrick, A. Pacheco, D. Taft, G. Xu, N. Huda, M. Lozada-Contreras, M. Goodson, C. Slupsky, D. Mills, H. Raybould.** University of California, Davis.
- LB360** LB360 Inhibition of the Human Colonic Thiamine Pyrophosphate (TPP) Uptake Process by the Pro-Inflammatory Cytokine, TNF- α and IFN- γ . **P. Srinivasan, B.D. Chu, E.T. Geltz, M.M. Thompson, H.M. Said.** University of California, Irvine.
- LB361** LB361 Kolaviron, a Flavonoid from Garcinia Kola Seeds, Ameliorates Experimental Colitis in Rats Exposed to Cadmium. **A.G. Adegoke, S.B. Olaleye.** University of Ibadan, Nigeria.
- LB362** LB362 Calcium-Dependent Relaxant Effect of Carvacrol on Gastric Fundus Smooth Muscle. **F.R. Oliveira da Silva, J.D. Lucena, H.B. Pimenta, P.M. Gomes Soares, E.P. Sousa.** Universidade Federal do Ceará, Brazil and Universidade do Estado do Amazonas, Brazil.
- LB363** LB363 Ghrelin Sensitises Colonic Myenteric Neurons to the Neurostimulatory Effects of Glucagon-Like Peptide-1 in Sprague Dawley and Wistar Kyoto Rats. **R. O'Brien, M.M. Buckley, D. O'Malley.** University College Cork, Ireland.
- LB364** LB364 Sphingosine Kinase Inhibition Reduced KCl-Induced Contractions of Gastric Arteries in Rats. **G. Soydan.** Hacettepe University, Turkey.

NUTRITION PHYSIOLOGY

WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION

Presentation time: 10:00 AM–12:00 PM

Board# Pub#

- LB365** LB365 Mulberry Extract Protects from Diet-Induced Obesity in Association with Modulation of Gut Microbiota in Mice. **H. Song.** Tsinghua University, People's Republic of China.
- LB366** LB366 Preventive Effects of Medium-Chain Triglycerides Supplementation on the Dysfunction of Mitochondrial Oxidative Phosphorylation in Skeletal Muscle Under Cachectic Condition. **T. Hirabayashi, M. Tanaka, T. Matsumoto, T. Ikeji, K. Ono, M. Takuwa, N. Maeshige, H. Kondo, H. Fujino.** Department of Rehabilitation Science, Kobe University Graduate School of Health Sciences, Japan, Department of Food Science and Nutrition and Nagoya Women's University, Japan.

- LB367** LB367 Correlation Between Promoter CpG Methylation and mRNA Levels of Genes Regulated by Fatty Acids in Muscle Cells and Adipocytes. **M.M. Alam, E. Cheng, Y. Li.** Texas A&M University and Kingsville.
- LB368** LB368 Effect of Eicosapentaenoic Acid-Rich Oil on Work Output and Muscle Swelling After Concentric Exercise of Human Elbow Flexors. **E. Ochi, T. Morishima, K. Yanagimoto, Y. Tsuchiya.** Hosei University, Japan, Nippon Suisan Kaisha, Japan and Teikyo Heisei University, Japan.
- LB369** LB369 Effects of Excessive Choline Administration on Cardiovascular Risk Factors and Hepatic Cholesterol Metabolism in Female SD Rats. **T. Lim, J. Ryu, K. Lee, K.T. Hwang.** Seoul National University, Republic of Korea.
- LB370** LB370 Effect of Spearmint Extract Containing Rosmarinic Acid on Physical and Executive Functioning Following a Tactical Operation. **J.R. Hoffman, Y. Ben-Moshe, M.W. Hoffman, I. Ostfeld.** University of Central Florida, Israel Border Police, Israel, Apex Sport Performance, Israel and Israel Defense Force, Israel.
- LB371** LB371 Glycemic and Insulinemic Response to Ingestion of a Novel Food Bar Containing Whey Protein and Isomaltoligosaccharides. **T.J. Grubic, R.B. Kreider, R. Sowinski, R. Dalton, C. Favot, M. Greenwood, C.P. Earnest, A. Reyes, C. Rasmussen.** Texas A&M University.
- LB372** LB372 Alterations in MHC-II Expression in Gonadal Adipose Tissue CD14⁺ Cells Related to Prolonged Commercial Sweetener Intake. **A.L. Díaz Arizmendi, J.A. Estrada, I. Contreras.** Universidad Autónoma del Estado México, Mexico.
- LB373** LB373 Glycemic Index Determination of Plant- and Whey-Based Protein Nutritional Shakes. **E.L. Glynn, N. Alamdari, M. Wilson, A. Ezatagha, A.L. Jenkins, M. Sharafi.** Beachbody, LLC, and GI Labs, Inc., Canada.
- LB374** LB374 Responses of Muscle Satellite Cells to Lemon Myrtle Supplementation Combined with Electrical Stimulation in Disuse-Induced Skeletal Muscle Atrophy. **M. Takuwa, T. Matsumoto, T. Hirabayashi, T. Ikeji, K. Ono, S. Honda, A. Yamamoto, H. Kondo, H. Fujino.** Department of Rehabilitation Science, Kobe University Graduate School of Health Sciences, Japan, Kaneka Corporation, Japan, Department of Food Science and Nutrition and Nagoya Women's University, Japan.
- LB375** LB375 The Effects of Starch-Entrapped Microsphere Supplementation on Obesity and Insulin Resistance in C57BL/6J Mice. **S.M. McNabney, K.M. Reed, G.E. Starrs, M.E. Libbey, T.M. Henagan.** Purdue University.
- LB376** LB376 Effect of Unvestin (*Scutellaria baicalensis* Root and *Acacia catechu* Heartwood) on Post-Exercise Muscle Soreness and Range of Motion in Healthy Adults. **S.M. Talbott, J.A. Talbott, D. Hantla.** EQQIL and Treehouse Athletic Club.
- LB377** LB377 Age-Related Changes in Resting State Connectivity of Brain Areas Related to Appetite, Mood and Food Homeostasis in Response to Glucose Ingestion. **R. Peters, D. White, A. Pipingas, A. Scholey.** Swinburne University of Technology, Australia.
- LB378** LB378 Effect of *Aronia melanocarpa* Extract on Lifespan and Stress Resistance in *C. elegans*. **C. Brown, V. Lopez, E.C. Lee.** University of Connecticut.
- LB379** LB379 Effects of Phenolic-Enriched Raspberry Extracts and Raspberry Ketone (4-(4-Hydroxyphenyl)-2-Butanone) on Obesity Prevention in a Mouse Model of Diet-Induced Obesity. **D. Kshatriya, B.L. Yeomans, X. Li, G. Guinta, N.T. Bello.** Rutgers University.

ENDOCRINOLOGY AND METABOLISM

WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION

Presentation time: 10:00 AM–12:00 PMBoard# Pub#

- LB380** LB380 Translational Control of FGF21 mRNA Expression Is Responsive to Nutritional Stress. **J.E. Welles, L.S. Jefferson, S.R. Kimball.** Penn State College of Medicine.
- LB381** LB381 REDD1 Reduces Muscle Metabolism to Foster Adaptation Under Fasting. **F. Favier, F. Britto, Y. Belloum, Y. Gallot, F. Cortade, B. Chabi, D. Freyssenet, G. Carnac, J. Rieusset, S. Giorgetti-Peraldi, V. Ollendorff.** Montpellier University, France, Saint Etienne University, France, CNRS, France and INSERM, France.
- LB382** LB382 Letrozole Treatment of Pubertal Female Mice Results in Impaired Insulin Action in Skeletal Muscle. **A.M. Hernandez-Carretero, V. Martins, M. Riopel, B. Ho, S. Schenk, V. Thackray.** University of California, San Diego.
- LB383** LB383 Berberine Hydrochloride Induces Brown Adipogenesis. **L. Li, A. Poudel, J. Zhou.** Central Michigan University.
- LB384** LB384 Biological Metabolite and Resveratrol Interaction in Cholesterol Diet Fed Rabbits. **A. Jimoh, A.J. Olusegun, Y. Tanko, A. Abubakar, M. Aliyu.** College of Health Sciences, Faculty of Basic Medical Sciences, Ahmadu Bello University, Zaria, Nigeria.
- LB385** LB385 Lipids as Potential Contributors to the Beneficial Effects of Roux-En-Y Gastric Bypass Surgery (RYGB). **S. Kaufman, J-P. Krieger, W. Langhans, M. Arnold.** ETH Zurich, Switzerland and University of Zurich, Switzerland.
- LB386** LB386 Fenofibrate Prevents Weight Gain in Dio Mice Independent of Subcutaneous White Adipose Tissue Browning. **A.C. Rodrigues, K.C. Rocha.** University of Sao Paulo, Brazil.
- LB387** LB387 Ghrelin Blunts Adrenergic-Stimulated Lipolysis in Subcutaneous and Visceral Adipose Tissue Ex Vivo, but Not in Vivo. **D.T. Cervone, D.J. Dyck.** University of Guelph, Canada.
- LB388** LB388 SLN Overexpression Upregulates Mitochondrial Dynamics and Promotes Oxidative Metabolism During Caloric Restriction. **M. Periasamy, F.G.D. Reis.** Sanford Burnham Prebys Medical Discovery Institute.
- LB389** LB389 The Role of Hepatic MDM2 in the Regulation of Energy and Lipid Metabolism in Obesity. **W. Lin, Z. Liu, X. Hui, A. Xu, K. Cheng.** The University of Hong Kong, Hong Kong.
- LB390** LB390 Pituitary Kisspeptin Receptor Knock Out Mice Display Altered Pituitary Function. **O.A. Awe, Y. Ma, A. Wolfe.** Johns Hopkins University School of Medicine.
- LB391** LB391 Fat Redistribution in an Experimental Model of Hypercortisolism in Rats. **F. De Fatima Silva, A.C.M. Komino, S. Andreotti, G. Boltes Reis, F. Bessa Lima.** University of Sao Paulo, Brazil.
- LB392** LB392 Molecular Transducers of Physical Activity Consortium (MoTrPAC): Creating a Comprehensive Map of Molecular Changes in Response to Physical Activity. **J.P. Williams, L. Joseph, the MoTrPAC Consortium.** National Institute on Aging, National Institutes of Health and National Institutes of Health.
- LB393** LB393 Pinealectomy Reduces Gene Expression of Caspase 9 in Subcutaneous Adipose Tissue of Rats. **T.N.F.D. Costa, S. Andreotti, F.B. Lima.** University of Sao Paulo, Brazil.

- LB394** LB394 Maternal Obesity Has Gender-Specific Effects on Mouse Offspring Insulin Sensitivity After β 3 Adrenergic Agonist Treatment. **E. Sousa, A.C. Rodrigues.** Pharmacogenomics Lab and Institute of Biomedical Sciences, Brazil.
- LB395** LB395 Effects of Transcutaneous Application of Carbon Dioxide on Diabetic Muscle Atrophy. **H. Kondo, T. Tani, K. Naito, Y. Niimi, M. Nakane, Y. Sugiyama, K. Okayasu, H. Takemoto, T. Matsumoto, M. Takuwa, T. Hirabayashi, T. Ikeji, K. Ono, H. Fujino.** Nagoya Womens University, Japan and Kobe University Graduate School of Health Sciences, Japan.
- LB396** LB396 Adipocyte Specific Expression of the PI3 Kinase Regulatory Subunit p85 α Causes Reduced Insulin Sensitivity in Mice. **B. Hetrick, Z. Clayton, W.S. Chick, C. McCurdy.** University of Oregon and University of Colorado Anschutz Medical Campus.
- LB397** LB397 Appendicular Muscle Mass Is Lower in Late-Compared to Early-Perimenopausal Women. **Y-M. Park, C.M. Jankowski, C. Ozemek, K.L. Hildreth, W.M. Kohrt, K.L. Moreau.** University of Colorado Anschutz Medical Campus and University of Illinois at Chicago.
- LB398** LB398 Exposure to a Western-Style Diet During Early Development Reduces Skeletal Muscle Lipid Metabolism and CI-Dependent Oxidative Capacity in Juvenile Non-Human Primate Offspring. **K.T. Greyslak, B. Hetrick, D.A. Takahashi, T. Dean, P. Kievit, E.L. Sullivan, C.E. McCurdy.** University of Oregon and Oregon Health & Science University.

RESPIRATION

WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION

Presentation time: 10:00 AM–12:00 PMBoard# Pub#

- LB399** LB399 Effects of 8 Months of E-Cigarette Exposure on Cytokine Expression in Mice. **C. Pitzer, M. Breit, H. Hoskinson, E. Aboaziza, K. Mashall, E. Burrage, P. Chantler, R. Bryner, I.M. Olfert.** West Virginia University.
- LB400** LB400 Inhibition of HDAC8 Ameliorates Pulmonary Fibrosis. **S. Saito, Y. Zhuang, J. Lasky.** Tulane University.
- LB401** LB401 Developmental Nicotine Exposure Alters Upper Airway Protective Reflexes in Neonates. **J. Clarke, S. Cross, R. Fregosi.** University of Arizona.
- LB402** LB402 Endothelin-1 and Comp Regulate Heme Biosynthesis and Guanylate Cyclase Expression in Smooth Muscle of Pulmonary Arteries. **N. Alruwaili, H. Yu, M.R. Kelly, D. Sun, M.S. Wolin.** New York Medical College.
- LB403** LB403 Metformin Restores Doxorubicin Induced Reduction in Complex II Respiration in C2C12 Skeletal Muscle Myotubes. **J.S. Harley, A.D. Mackay, C.R. Hancock.** Brigham Young University.

HYPOXIA

WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION

Presentation time: 10:00 AM–12:00 PMBoard# Pub#

- LB404** LB404 High-Altitude Hypoxia Decreases Plasma Erythropoietin Soluble Receptor (sEpoR) Concentration in Humans. **G.A. Vizcardo Galindo, C. Anza-Ramirez, F.C. Villafuerte.** Universidad Peruana Cayetano Heredia, Peru.
- LB405** LB405 Molecular Basis of Hypoxia-Induced Excessive Erythrocytosis of High Altitude. **P. Azad, G. Haddad.** University of California, San Diego.

- LB406** LB406 Long-Term Hypoxia Alters Cytochrome P450 Activity During Pregnancy in Ovine Species. **H. Truong, T.C. Lam, S. Solak, O.O. Adeoye.** Loma Linda University.
- LB407** LB407 The Neurovascular Coupling Response Remains Intact During Incremental Ascent to High Altitude (4370m) in Acclimatized Healthy Volunteers. **J.K. Leacy, S.M. Zouboules, H. Nysten, C.R. Mann, J.P. Peltonen, C.E. Nysten, T.D. Brutsaert, K.D. O'Halloran, M.T. Sherpa, T.A. Day.** Mount Royal University, Canada, Syracuse University, University College Cork, Ireland and Mount Royal University, Nepal.
- LB408** LB408 Short Sustained, but Not Intermittent, Hypoxia Attenuates Kainic Acid-Induced Sympathetic Nerve Activity Increase and Prevents Seizure Development in Rats. **P.E. Nedoboy, E.M. Cohen, Z.M. Kakall, S.J. Kim, T.J. O'Brien, K.L. Powell, M.M. Farnham, P.M. Pilowsky.** The Heart Research Institute, Australia and Monash University, Australia.
- LB409** LB409 Profiling the Post-Injury Hippocampal MicroRNA Response to Transient Forebrain Ischemia: Sub-Regional Differences Between Cornu Ammonis-1 and Dentate Gyrus. **O.J. Arvola, G. Kaidonis, L. Xu, B. Griffiths, C. Stary.** Stanford University.
- LB410** LB410 The Role of Introgressive Hybridization in Hypoxia Adaptation of the Tibetan Mastiff. **A. Signore, Y. Yang, J. Storz, R-L. Ge.** University of Nebraska—Lincoln and Qinghai University, People's Republic of China.
- LB411** LB411 Sodium Bicarbonate Cotransporter NBCe1 Affects the Growth and Motility of Prostate Cancer Cell Lines LNCaP and PC3. **S. Lee, J.M. Li, I. Choi.** Emory University.
- LB412** LB412 Differences in Peak VO₂ Among Healthy Andean Highlanders and Males with Chronic Mountain Sickness Before and After Isovolemic Hemodilution at 4350m. **E.C. Heinrich, C. Anza-Ramirez, M.S. Tift, J.L. Marcarlupu, H.E. Wagner, R. Figueroa-Mujica, G. Vizcardo-Galindo, W. Gu, P.D. Wagner, F.C. Villafuerte, T.S. Simonson.** University of California, San Diego and Universidad Peruana Cayetano Heredia, Peru.
- LB413** LB413 Heme-Oxygenase 2 (*HMOX2*) Variants Associated with Evolutionary Adaptation and Hemoglobin Concentration in Tibetans Are Common in Andean Highlanders. **G. Yip, E.C. Heinrich, F.C. Villafuerte, T.S. Simonson.** University of California, San Diego and Universidad Peruana Cayetano Heredia, Peru.
- LB414** LB414 Tracking Cerebral Blood Flow Regulation During Incremental Ascent to Altitude: Effect of Superimposed Hypoxia and Hypocapnia. **H.C. Lafave, S. Zouboules, M. James, G. Purdy, J. Rees, P.C. Ondrus, H.C. Nysten, T.C. Brutsaert, C. Nysten, C. Steinback, M. Sherpa, T. Day.** Mount Royal University, Canada, University of Alberta, Canada, Red Deer Regional Hospital, Canada, Syracuse University and Kunde Hospital, Nepal.
- LB417** LB417 A Bioactive Peptide Ameliorates Diet-Induced Nonalcoholic Fatty Liver in Senescence Accelerated Mice Prone 8 (SAMP8)-Genetic Ageing Model. **S. DUmeUS, W-W. Kuo, C-Y. Huang.** China Medical University, Taiwan.
- LB418** LB418 Behavioral Assessment of Mice with Mitochondrial CaMKII Inhibition. **N. de la Rosa-González, M-I. Joiner.** University of Puerto Rico at Ponce, Puerto Rico and University of Iowa.
- LB419** LB419 Autophagy-Related Protein 16L1 (ATG16L1) Depletion Induces Insulin Resistance Through Decreased IRS Expression. **S. Frendo-Cumbo, J. Jaldin-Fincati, J.H. Brumell, A. Klip.** Hospital for Sick Children, Canada.
- LB420** LB420 Effect of Ginger Powder Extracts on Actin Assembly *in Vitro*. **N. Sugimoto, M. Katakura, K. Matsuzaki, M. Miyamoto, E. Sumiyoshi, A. Yachie, O. Shido.** Kanazawa University, Japan, Josai University, Japan and Shimane University, Japan.
- LB421** LB421 Have Some Tea, Feed Your Brain: How EGCG Acts as a Protective Agent in a Parkinsonian Model. **J.C. Blackburn, E. Magness, J.L. Roberts.** Trinity University.
- LB422** LB422 SOX9-Independent Control of Intestinal Paneth Cell Differentiation and Function. **E. Bankaitis, D. Dajee, S. Magness.** University of North Carolina.
- LB423** LB423 Antioxidant Activities of Anthocyanin and Polyphenol Fractions of Black Raspberry (*Rubus occidentalis*) in Inflamed Human Umbilical Vein Endothelial Cells. **S.Y. Park, H. Jung, K.T. Hwang, H-K. Kwak.** Seoul National University, Republic of Korea and Korea National Open University, Republic of Korea.
- LB424** LB424 Freeze Tolerance and Cryoprotection of Erythrocytes from Warm and Cold Acclimated *D. chrysoscelis*. **L. Geiss, C. do Amaral, J. Frisbie, D. Goldstein, C. Krane.** University of Dayton, Mount St. Joseph University and Wright State University.
- LB425** LB425 FTY720-P Activates Hepatic Na⁺/K⁺ ATPase via S1PR3, PKC and PGE₂. **M. Chakkour, S. Kreydiyyeh.** American University of Beirut.
- LB426** LB426 FTY720P, increases at 2 hrs, the activity of Na⁺/K⁺ ATPase in Caco-2 cells via PKC and PI3K. **M. Noureddine, S. Kreydiyyeh.** American University of Beirut.
- LB427** LB427 P311 Modulates Adipocyte Development. **S. Nunez, P. Kotha, C. Young, O. Adebayo, K.R. Badri.** Morehouse School of Medicine.
- LB428** LB428 PGE₂ and NO Mediate the Inhibitory Effect Exerted by FTY720P at 15 Minutes on Colonic Na⁺/K⁺ ATPase. **R. Rida, S. Kreydiyyeh.** American University of Beirut, Lebanon.
- LB429** LB429 Development of a Cell Culture System to Examine the Acclimation, Contraction, and Cytoskeletal Remodeling of A7r5 Smooth Muscle Cells to Microgravity. **K.M. Whitenack, C. Arnold, D. Gibson, M. Fultz.** Morehead State University.
- LB430** LB430 Expression of Myogenic Regulatory Factors Is Not Different Between Whole Muscle and Isolated Human Muscle Satellite Cells Following Eccentric Contractions. **S.A. Fortino, J.P. Nederveen, S. Joanisse, J.M. Baker, T. Snijders, C. McGlory, B.R. McKay, D. Kumbhare, G. Parise.** McMaster University, Canada, McMaster Health Sciences Centre, Canada, Maastricht University, Netherlands, University of Toronto, Canada and McMaster Hospital, Canada.
- LB431** LB431 Distinct Heat Stress Responses of Porcine Cumulus Cells and the Oocyte Is Associated with Disrupted Intercellular Communication. **C. Yin.** Nanjing Agricultural University, People's Republic of China.

CELL AND MOLECULAR PHYSIOLOGY

WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION

Presentation time: 10:00 AM—12:00 PM

Board# Pub#

- LB415** LB415 Rhinovirus Infection Alters Cellular Architecture of Highly Differentiated Airway Epithelial Cells. **A. Michi, D. Proud.** University of Calgary, Canada.
- LB416** LB416 Nucleolar Matrix Metalloproteinase-2 Regulates rRNA Transcription. **J. Garcia-Vilas, M. Ali, R. Ilarraza, M. Hendzel, R. Schulz.** University of Alberta, Canada.

- LB432** LB432 Activation of β 3-Adrenoceptors Inhibits Purinergic-Mediated Contractions of the Murine Detrusor. **C. Griffin, Z. Fong, N. McHale, K. Thornbury, M. Hollywood, G. Sergeant.** Dundalk Institute of Technology, Ireland.
- LB433** LB433 High Resistance of Chicken Embryo Red Blood Cells to Acid Action. **A. Mischenko, E. Lebedeva, V. Golovko.** P. Sorokin Syktyvkar State University, Medical Institute, Russian Federation, Institute of Physiology, Komi Science Centre and the Urals Branch of the Russian Academy of Sciences, Russian Federation.
- LB434** LB434 Thyroid Transcription Factor-1 Modulation of Secretome Alters Sensitivity to Cisplatin in Lung Cancer. **C.A. Phelps, D. Mu.** Eastern Virginia Medical School.
- LB435** LB435 Barrier Function of Brain Microvascular Endothelial Cells Is Compromised by Oil Dispersant Corexit®. **D.H. Ho, R. Laczko, R.M. Cain, W.W. Burggren.** Tripler Army Medical Center and University of North Texas.
- LB436** LB436 Effects of L-Type Ca^{2+} Blockers and the Novel BK_{Ca} Channel Opener, GoSlo-SR5-130, on Tension Responses in Rabbit Bronchial Rings. **K.D. Thornbury, V.V. Bihun, E. Bradley, M.A. Hollywood, G.P. Sergeant.** Dundalk Institute of Technology, Ireland.
- LB437** LB437 Long-Term Ouabain Treatment Promotes *ATP1A1*-Dependent *IL-6* Expression in a Fetal Human Lens Epithelial Cell Line (FHL124). **P.K. Lauf, S.K. Semra Aygün, G.K. Begum, C.K. Maharjan, M.K. Markey, M.I. Wormstone, N.C. Adragna.** Wright State University and University of East Anglia, United Kingdom.
- LB438** LB438 Macrophages Are Required for Recovery from Physiological Muscle Stress in the *mdx* Mouse Model of Muscular Dystrophy. **R.G. Rogers, G. de Couto, M. Fournier, E. Jaghatspanyan, L. Sanchez, E. Marban.** Cedars-Sinai Medical Center.
- LB439** LB439 Exercise or Metformin Modulates Doxorubicin Mediated Iron Dysregulation in Liver, Heart and Skeletal Muscle. **E.D. Marchant, A.D. Mackay, D.J. Munk, C.R. Hancock.** Brigham Young University.
- LB440** LB440 Investigation of Cellular Hyperosmotic Stress Response Pathways Using CRISPR in Fishes. **J.C. Hamar, D. Kültz.** University of California, Davis.
- LB441** LB441 Regional Adipose Tissue Immune Cell Profiles in Childhood-Onset and Adult-Onset Obesity. **J. Murphy, V. Dam, K. Delaney, J.A. Morais, M. Tsoukas, S. Santosa.** Concordia University, Canada, McGill University, Canada and McGill University Health Centre, Canada.
- LB442** LB442 Defining Chronic Angiotensin II Induced Mitochondrial Injury Using a Transcriptomics Approach. **M.V. Singh, M.Z. Cicha, R. Somapallae, M.W. Chapleau, F.M. Abboud.** University of Iowa.
- LB443** LB443 The Oculocerebrorenal Syndrome of Lowe Protein (OCRL) Inhibits the Na/Bicarbonate Cotransporter NBCe1 Expressed in *Xenopus laevis* Oocytes. **M. Michenkova, I.M. Thornell, J-B. Peng, M.O. Bevensee.** University of Alabama at Birmingham.
- LB444** LB444 Endothelial-Dependent Activation of Smooth Muscle PDGF Receptors Enhances PASM C Proliferation in IPAH. **K. Wu, H. Tang, X. Wu, R. Lin, Z. Wang, Q. Zhang, R.J. Ayon, J. Wang, A. Makino, J.X-J. Yuan.** The First Affiliated Hospital of Guangzhou Medical University, People's Republic of China and The University of Arizona.

EPITHELIAL TRANSPORT

WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION

Presentation time: 10:00 AM–12:00 PM

Board# Pub#

- LB445** LB445 Hyperglycemia-Induced Alteration of Brain Microvascular Endothelial Intracellular Ca Response to Ischemic Factors: Role of TRPV4 Channels. **M.E. O'Donnell, N.R. Klug, B.Y. Hung, J. Conston, S.T. Esteban, L.F. Santana.** University of California.
- LB446** LB446 Interaction of Chitosan Derivatives with Organic Cation Transporter 1 and 2. **S. Soodvilai, W. Sajomsang, V. Chatsudthipong, S. Soodvilai, P. Opanasopit.** Pharmaceutical Development of Green Innovations Group, Faculty of Pharmacy, Silpakorn University, Thailand, National Nanotechnology Center (NANOTECH), National Science and Technology Development Agency, Thailand and Department of Physiology, Faculty of Science, Mahidol University, Thailand.
- LB447** LB447 Novel Role(s) for Nonmuscle Myosin 2 Isoforms MYH9 and MYH10 in Renal Epithelial Cells and Tubular Disease. **I. Chandrasekar, K.L. Otterpohl, R.G. Hart, C. Evans, C. Phillips, B.A. Molitoris, K. Surendran.** Enabling Technologies Group at Sanford Research, Sanford Research Molecular Pathology Core, Department of Pathology and Laboratory Medicine, Indiana University, Department of Medicine, Indiana University and Pediatrics and Rare Disease Group—Sanford Research.

CENTRAL NERVOUS SYSTEM (CNS)

WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION

Presentation time: 10:00 AM–12:00 PM

Board# Pub#

- LB448** LB448 Effect of Short-Term Theta Frequency Stimulation of the Vagus Nerve on Cognition Among Patients with Refractory Epilepsy: A Pilot Study. **E.B. Strong, K. Scangos, A. Mefford, D. Lee, K. Shahlaie.** University of California, Davis.
- LB449** LB449 Prior Menopausal Hormone Treatments and Association of Peripheral Markers of Neurovascular Unit Integrity and β -Amyloid in the Brains of Menopausal Women. **M. Jayachandran, B.D. Lahr, K.R. Bailey, V.J. Lowe, K. Kantarci, V.M. Miller.** Mayo Clinic.
- LB450** LB450 Alterations in Attention and Memory in People with Normal Body Mass Index Related to Frequent Sucralose or Sucrose Intake. **M.d.S. López-Meza, J.A. Estrada, G.A. Otero-Ojeda, F.J. Esquivel-Hernández, I. Contreras.** Universidad Autónoma del Estado de México, Mexico and Universidad Nacional Autónoma de México, Mexico.
- LB451** LB451 Basal Ganglia and Prefrontal Regions Influence Postural Control and Cognitive Impairment in Parkinson's Disease. **W. Buated, P. Lolekha, H. Shohei, T. Fujinami.** Thammasat University, Thailand and Japan Advanced Institute of Science and Technology, Japan.
- LB452** LB452 Long-Term Endurance Exercise Coactivates Autophagy/Mitophagy and Anabolic Signaling. **S. Quintin, Y. Jang, I. Kwon, W. Song, I.M. Cosio-Lima, Y. Lee.** University of West Florida.
- LB453** LB453 Peppermint Ambient Odor Affects Cortisol Secretion and Task Performance in Selected Tests in School Children. **V. Voznessenskaya, T. Laktionova, M. Klyuchnikova, O. Laktionova, E. Rodionova.** A.N. Severtzov Institute of Ecology and Evolution, Russian Federation.

- LB454** LB454 Long-Term High-Intensity Sound Stimulation Inhibits IH in CA1 Pyramidal Neurons. **J.L. de Deus, A.O.S. Cunha, C.C. Ceballos, R.X. Leão.** University of São Paulo, Brazil.
- LB455** LB455 Linkage Between Hypothalamic Homeostatic and Midbrain Motivation Circuits and Habenula Enabling Sex Steroid Modulation of Motivation and Behavior. **L. Zhang, V.S. Hernández, A.C. Emery, L.E. Eiden.** National Institute of Mental Health, National Institutes of Health, UNAM, Mexico, National Institute of Mental Health and National Institutes of Health Intramural Research Program.
- LB456** LB456 Visualization of the Regenerating Microvasculature and Neural Fibers in the Spinal Cord Injury of the Axolotl. **F.K.E. Svensson, M.M. Thygesen, A. Dittrich, M. Ding, M. Pedersen, H. Lauridsen.** Aarhus University, Denmark and University of Southern Denmark, Denmark.
- LB457** LB457 Veterans Without MTBI Are More Likely to Benefit from Bilateral Electrical Vestibular Stimulation. **K. Brewer, S. Wood, L. De La Cruz, F. Sanjana, M. Schubert, J. Serrador.** U.S. Department of Veterans Affairs, Azusa Pacific University, Johns Hopkins University and Rutgers University.
- LB458** LB458 Electrical Field Stimulation-Induced Vasorelaxation Responses Decreased in Anterior and Middle Cerebral Arteries of Endotoxemic Rats. **G. Soydan.** Hacettepe University, Turkey.

NEURAL CONTROL AND AUTONOMIC REGULATION

WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION

Presentation time: 10:00 AM–12:00 PM

Board# Pub#

- LB459** LB459 Chronic Neuro-Spinal Degenerative Disease and Effective Integrative Dynamic Sigma Quantum Regeneration Neural Cells Signaling Stimulation Therapies—Case Study. **O.L. Tulp, G.P. Einstein, C.M. Konyk.** University of Science, Arts and Technology Montserrat, Einstein Medical Institute, University of Science and Arts and Technology Montserrat, Montserrat.
- LB460** LB460 LF HRV Power as an Index of Sympathetic Inhibition. **V.E. Shekh.** V.N. Karazin Kharkiv National University, Ukraine.
- LB461** LB461 Cardiac Autonomic Control Impairment in Infants with Transient Hypertonia and Psychomotor Retardation. **C.A. Melipillan Cardenas, A. Arce, D. Andrade, R. Del Rio.** Pontificia Universidad Católica de Chile, Chile.
- LB462** LB462 Transsynaptic Tracing of Sensory-Motor Connections in the Gut-Brain Axis. **C.G. Parker, M. Grako, B. Berish, M.J. Dailey.** University of Illinois at Urbana—Champaign.
- LB463** LB463 Relationship Between Sympathetic Baroreflex Sensitivity and Vascular Transduction. **C.E. Taylor, S.L. Hissen, R. Brown, V.G. Macefield.** Western Sydney University, Australia and Baker Heart and Diabetes Institute, Australia.
- LB464** LB464 Microarray Analysis of the PVN of Spontaneously Hypertensive Wistar Rats (SHR). **F. O'Brien, C. Feetham, R. Barrett-Jolley.** University of Liverpool, United Kingdom and University of Manchester, United Kingdom.
- LB465** LB465 PVN Orexin Receptor 1 Knockdown Effect on Metabolism and Fluid Homeostasis. **J.A. Bigalke, E.J. Jiang, T.M. Hahka, Q.H. Chen, Z.J. Shan.** Michigan Technological University.
- LB466** LB466 Chronic Pain Induced Inflammation in the Hypothalamus of Rats. **E. DeForest, L. Semke, V. Duric, S.C. Clayton.** Des Moines University.
- LB467** LB467 Electroacupuncture Modulates Reflex Elevation in Blood Pressure Through Adenosine Receptor A2A, but Not A1 in Rostral Ventrolateral Medulla of Rats. **Z-L. Guo, S. Malik.** University of California, Irvine.
- LB468** LB468 L-Lactate Increases Apoptosis in Dopaminergic-Like PC12 Cells. **Z.M. LaLonde, J.E. Behnke, A.D. Chapp, Z.J. Shan, Q.H. Chen.** Michigan Technological University.
- LB469** LB469 Plasticity of Sympathetic Post-Ganglionic Neuron After Spinal Cord Injury. **Y. Li, M.L. McKinnon, S. Hochman.** Emory University.
- LB470** LB470 Role of Baroreflex During Endotoxemic Shock. **M.R. Amorim, G.S. Borges, C.M.D. Mota, L.G.D.S. Branco.** Dental School of Ribeirão Preto, University of São Paulo, Brazil.
- LB471** LB471 Regional Distribution of Hypothalamic Paraventricular Nucleus Neurons Activated by Acute Intermittent Hypoxia. **N.O. Maruyama, N.C. Mitchell, G.M. Toney.** The University of Texas Health Science Center at San Antonio.
- LB472** LB472 The Orcokinin Neuropeptide NLP-14 Regulates Sleep in *C. elegans*. **N. Barrett, N. Riazati, K. Buscemi, A. Brown, M. Nelson.** Saint Joseph's University.
- LB473** LB473 Reciprocal Interaction Between Hypothalamic Orexin-A and Corticotropin-Releasing Factor Under Stressed Condition. **O. Sinen, M. Bülbül.** Akdeniz University, Turkey.
- LB474** LB474 The Development and Progression of Mechanical Allodynia in UC, Davis Type 2 Diabetic Rats. **C.K. Crawford, K. Ybarbo, A-K. Grotle, Y. Huo, J. Graham, K. Stanhope, P.J. Havel, A.J. Stone.** The University of Texas at Austin and University of California, Davis.
- LB475** LB475 Peripheral Chemoreceptor Ablation Modulates Renal MiR-155/KLF4 Expression in Chronic Heart Failure. **K.W. Kiouss, M.S. Weinfeld, J. Giles, F. Keomanivong, N.R. Hitt, A.C. Hybarger, S. Deng, H.D. Schultz, R. Del Rio, N.J. Marcus.** Des Moines University, University of Nebraska Medical Center and Pontificia Universidad Católica de Chile, Chile.
- LB476** LB476 Evidence Supporting a Role for Autonomic Modulation of C-Low Threshold Mechanoreceptors. **M. Provost, B. Goolsby, S. Hochman.** Emory University.

PHYSIOLOGICAL GENOMICS

WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION

Presentation time: 10:00 AM–12:00 PM

Board# Pub#

- LB477** LB477 *ALPL*, a Novel Marker of Neutrophil Activation in Response to Obesity. **Y. Pan, J. Choi, H. Shi, S. Su, X. Wang.** Augusta University.
- LB478** LB478 Genetic Missense Variants at the *EGLN1* Locus Associated with High-Altitude Adaptation in Tibetans Are Rare in Andeans. **E.S. Lawrence, E.C. Heinrich, L. Wu, F.C. Villafuerte, T.S. Simonson.** University of California, San Diego and Universidad Peruana Cayetano Heredia (UPCH), Peru.

- LB479** LB479 Increased Levels of Interleukin-6 (IL-6) in Andean Males with Chronic Mountain Sickness and Sea-Level Participants After One Day at High Altitude May Reflect Differences in IL-6 Regulation. **E.C. Heinrich, C. Anza-Ramirez, J-L. Macarlupu, N. Corante, G. Vizcardo-Galindo, F.C. Villafuerte, F.L. Powell, T.S. Simonson.** University of California, San Diego and Universidad Peruana Cayetano Heredia (UPCH), Peru.
- LB480** LB480 Role of COUP-TFII in Glucose Homeostasis in Dahl Salt Sensitive Rats. **U.M. Ashraf, S. Kumarasamy.** University of Toledo College of Medicine and Life Sciences.

MUSCLE BIOLOGY

WED. 9:00 AM—SAN DIEGO CONVENTION CENTER, SAILS PAVILION

Presentation time: 10:00 AM–12:00 PM

Board# Pub#

- LB481** LB481 The Effect of Aging and Calorie Restriction on Mitochondrial Morphology and Dynamic in Oxidative and Glycolytic Skeletal Muscles. **J. Faitg, J.P. Leduc-Gaudet, O. Reynaud, G. Gouspillou.** Département de Sciences de l'activité physique, Faculté des Sciences, UQAM, Canada, Meakins-Christie Laboratories and Department of Critical Care, McGill University, Canada.
- LB482** LB482 Concerted Molecular Clock Control of Myogenic Precursor Properties Promotes Skeletal Muscle Growth and Remodeling. **K. Ma, S. Chatterjee, J. Lee, V. Yechoor.** Beckman Research Institute of City of Hope, Houston Methodist Research Institute and University of Pittsburgh.
- LB483** LB483 A Comparison of Protective Effects Between Electrical and Pulsed-Magnetic Stimulation in the Deep Layer of Skeletal Muscles Under Disuse Condition. **K. Ono, R. Nakanishi, T. Matsumoto, M. Takuwa, T. Hirabayashi, T. Ikeji, M. Tanaka, N. Maeshige, H. Kondo, H. Fujino.** Department of Rehabilitation Science, Kobe University Graduate School of Health Sciences, Japan, Faculty of Rehabilitation, Kobe International University, Japan, Department of Physical Therapy, Osaka Yukioka College of Health Science, Japan and Department of Food Sciences and Nutrition, Nagoya Women's University, Japan.
- LB484** LB484 Ion Channel Activity in a 3-Hydroxyacyl-CoA Dehydratase 1 (HACD1) Deficient Muscle Cell Line. **R.S. Morgan, G. Walmsley, S. Dyer, F. O'Brien, C. Staunton, R. Piercy, J. Blondelle, L. Tired, R. Barrett-Jolley.** University of Liverpool, United Kingdom, Royal Veterinary College, United Kingdom, University of California, San Diego and Institute Mondor de Recherche Biomedicale (IMRB), France.
- LB485** LB485 Protective Effects of *Enterococcus faecium* Strain R30 on Transformation of Slow to Fast Fiber Under Inactive Condition. **T. Ikeji, Y. Hirayama, T. Matsumoto, K. Ono, M. Takuwa, T. Hirabayashi, A. Tategaki, H. Kondo, H. Fujino.** Department of Rehabilitation Science, Kobe University Graduate School of Health Sciences, Japan, Medical Device Development Laboratories, Kaneka Corporation, Japan and Department of Food Science and Nutrition, Nagoya Women's University, Japan.
- LB486** LB486 Growth Arrest Specific 6 in Regeneration After Skeletal Muscle Injury. **J.J. Tsukamoto, M.S. Matsumura, Z.E. Olsen, E.K. Wilson, J.L. Chow, J.A. Arroyo, D.M. Thomson.** Brigham Young University.
- LB487** LB487 Fiber-Type Specificity of Cancer Cachexia-Induced Muscle Wasting Is Phosphorylated P70S6K-Dependent. **M. Tanaka, T. Matsumoto, K. Sugimoto, H. Fujino.** Kobe University, Japan and Osaka University, Japan.
- LB488** LB488 Effects of Heat Stress Treatment and Leucine Supplementation on Age-Related Muscle Loss in Mice. **R. Kakigi, A. Goto, T. Yoshihara, T. Tsuzuki, H. Naito.** Juntendo University, Japan.
- LB489** LB489 Effects of FADS2 Inhibition in Combination with Increased Dietary n-3 PUFAs on Skeletal Muscle Protein Turnover in Mice Fed a High Fat Diet. **K. Brown, E. Baker, W. Hawkins, S. Sharma, M. van der Merwe, M. Puppa.** University of Memphis.
- LB490** LB490 Cellular Senescence in Primary Muscle Fibroblasts Is Associated with Changes in Extracellular Matrix Remodeling. **J.L. Judge, S.V. Brooks.** University of Michigan.
- LB491** LB491 Fibroblast Growth Factor 9 (FGF9) Is Expressed in an Osteocyte-Like Mini-Bone Cell Line and Inhibits C2C12 Myogenesis via Overexpression of Myostatin. **J. Huang, K. Wang, L. McCormick, L. Brotto, S. Dallas, M. Brotto.** University of Texas at Arlington and University of Missouri—Kansas City.
- LB492** LB492 TFAM Overexpression Prevents Skeletal Muscle Atrophy. **N.T. Theilen, N. Jeremic, G. Weber, S. Tyagi.** University of Louisville School of Medicine.
- LB493** LB493 Activation of Growth Signaling in Skeletal Muscle by Growth Arrest Specific-6. **B.M. Wyson, M.S. Matsumura, M.R. Deyle, M.N. Knowlton, J.A. Arroyo, R.D. Hyldahl, D.M. Thomson.** Brigham Young University.
- LB494** LB494 8 and 16 Weeks of Chronic Tobacco Smoke Exposure Negatively Impacts Peripheral Motor Axon and Neuromuscular Junction Morphology in the Diaphragm of Mice. **A.J. Willms, K. Miguez, J-P. Leduc-Gaudet, C. Baglole, S.N. Hussain, R.T. Hepple.** McGill University, Canada and University of Florida.
- LB495** LB495 The Effects of Leucine Supplementation on Skeletal Muscle Mitochondrial Content and Protein Turnover in Tumor Bearing Mice. **H. Lee, A. Persinger, K. Lee, M. Jones, M. Puppa.** University of Memphis.
- LB496** LB496 The Experience of Pregnancy Induces Variations in the Myometrial Response to Oxytocin, PGE2 and PGF2 α : Observations in Non-Pregnant and Pregnant Rat Tissue. **M. Porta, K. Sondgeroth, N. Hristakos, A. Patel, V. Mui.** Midwestern University.
- LB497** LB497 Skeletal Muscle Gene Expression in High Fat Diet-Fed LKB1 Knockout Mice. **E.C. Cheung, T. Chen, J.T. Hill, D.M. Thomson.** Brigham Young University.
- LB498** LB498 Exercise, but Not Metformin Prevents Muscle Function Loss Due to Doxorubicin in Mice Using an *in-Situ* Model. **A.D. Mackay, C.R. Hancock.** Brigham Young University.

LATE-BREAKING AUTHOR INDEX

The number in bold following each name refers to the POSTER BOARD NUMBER.

The number in parenthesis refers to the publication number

LB poster boards are located in the Sails Pavilion on Wednesday 4/25.

Non-LB board numbers are located in the Exhibit Hall Sunday–Tuesday.

Check the Late-breaking program for exact dates and times of presentation.

A

- Abbott, K. **C288** (LB615)
Abbott, M.J. **LB267** (LB267)
Abboud, F.M. **LB442** (LB442)
Abdullah, O.A. **C262** (LB632)
Abdul-Rashed, J.L. **LB254**
(LB254)
Aboaziza, E. **LB399** (LB399)
Abosch, A. **E110** (LB499)
Abshiru, N. **LB96** (LB96)
Abubakar, A. **LB384** (LB384)
Abunnaja, M. **LB163** (LB163)
Ackermann, M. **D91** (LB594)
Adamos, C.S. **LB309** (LB309)
Adams, R.H. **LB147** (LB147)
Adams, W.M. **LB258** (LB258)
Adebayo, O. **LB427** (LB427)
Adedapo, A. **LB298** (LB298)
Adedapo, A.A. **C287** (LB676)
Adegoke, A.G. **LB361**
(LB361)
Adejumobi, O. **LB298**
(LB298)
Adenipekun, K. **LB298**
(LB298)
Adeniyi, P.A. **D77** (LB560)
Adeoye, O.O. **LB406** (LB406)
Adeyemi, E.T. **C257** (LB627)
Adragna, N.C. **LB437** (LB437)
Agarwal, R. **C288** (LB677)
Aguayo, V. **D81** (LB564),
LB193 (LB193)
Aguillard, A.M. **D75** (LB578)
Ahmad, M. **LB325** (LB325)
Ahmad, Z. **LB104** (LB104)
Ahmed Mohammed Ismail
Khalifa, H. **C276** (LB646)
Ahmed, M.A.R. **D86** (LB589)
Ahmet, I. **LB302** (LB302),
LB330 (LB330)
Ahn, D-G **LB145** (LB145)
Ahn, S.J. **LB309** (LB309)
Ahuja, L. **LB50** (LB50)
Ahuja, L.G. **LB149** (LB149)
Ainslie, P. **LB293** (LB293)
Ajibade, T. **LB298** (LB298)
Akalin, A. **D83** (LB586)
Akiyoshi, Y. **LB77** (LB77),
LB80 (LB80)
Akman, A. **LB202** (LB202)
Akomolafe, S. **LB157** (LB157)
Akpati, L. **E159** (LB548)
Al Kafri, N. **LB138** (LB138)
Alaaeddine, R. **C264** (LB634)
Alade, N. **C282** (LB652)
Alahmadi, E.A. **LB345**
(LB345)
Alajbegovic, A. **LB286**
(LB286)
Alam, M.M. **LB367** (LB367)
Alamdari, N. **LB373** (LB373)
Alanazi, M.S. **C299** (LB626)
Albinsson, S. **LB286** (LB286)
Aldarondo-Torres, A. **LB45**
(LB45)
Aldinger, J. **C274** (LB644)
Alexander, T. **E154** (LB543)
Alfaras, I. **LB288** (LB288)
Alghamdi, M. **LB68** (LB68)
Alhaji Saganuwan, S. **C272**
(LB642)
Alhawaj, R.O. **LB290** (LB290)
Al-Husseini, E. **D80**
(LB583)
Ali, A. **LB215** (LB215)
Ali, M. **LB416** (LB416)
Ali, N. **LB215** (LB215)
Alicea Reyes, T.M. **D87**
(LB590)
Aliyu, M. **LB384** (LB384)
Allen, A. **E154** (LB543)
Alluri, R. **C289** (LB616)
Almaghrabi, M. **C288** (LB615)
Almeida, V.E.d.F. **C298**
(LB625)
Almendra-Pegueros, R. **D68**
(LB569), **D76** (LB559)
Alnajjar, S.S. **D91** (LB594)
Alon, A. **LB2** (LB2)
Alpini, G. **D73** (LB556)
Alruwaili, N. **LB402** (LB402)
Alsulaiti, H.A. **LB175**
(LB175)
Alter, C. **LB296** (LB296)
Alvarez, J.V. **C279** (LB668)
Aly, R.I. **D86** (LB589)
Alzahrani, O.A. **LB345**
(LB345)
Amann, M. **LB340** (LB340)
Amaral, A.C. **E158** (LB547)
Amaral, C.S.T. **E158** (LB547)
Amora Silva, B.F.A. **E130**
(LB519)
Amorim, M.R. **LB470**
(LB470)
Anand, G. **LB24** (LB24)
Anderson, C. **LB210** (LB210)
Anderson, J. **E154** (LB543),
LB74 (LB74)
Andersson, M. **D74** (LB557)
Andrade Junior, A. **E131**
(LB520)
Andrade, A. **E131** (LB520)
Andrade, D. **LB461** (LB461)
Andrade, D.J. **LB48** (LB48)
Andreotti, S. **LB391** (LB391),
LB393 (LB393)
Angadi, S.S. **LB329** (LB329)
Angelis, K.D. **LB310** (LB310)
Angulo, A. **E136** (LB525)
Ankney, C.M. **LB38** (LB38)
Ann, D.K. **LB12** (LB12)
Annaert, P. **C277** (LB647),
C283 (LB653)
Anson, K.J. **LB129** (LB129)
Antanaviciute, L. **D82** (LB585)
Antonescu, C.N. **E133**
(LB522)
Antony, E. **LB210** (LB210)
Anyashina, O.A. **LB162**
(LB162)
Anza-Ramirez, C. **LB404**
(LB404), **LB412** (LB412),
LB479 (LB479)
Aoki, R. **LB222** (LB222)
Aoto, P. **LB50** (LB50)
Apaydin Yildirim, B.D. **LB75**
(LB75)
Appleyard, C.B. **LB223**
(LB223)
Aranda, I. **LB49** (LB49)
Araújo, A. **E131** (LB520)
Arboleda, V. **LB115** (LB115)
Arce, A. **LB461** (LB461)
Arcidiacono, S.M. **LB358**
(LB358)
Arif, D. **D71** (LB554), **D80**
(LB583)
Arlantico, M. **LB59** (LB59)
Armstrong, L. **LB255**
(LB255), **LB256** (LB256)
Arnholt, A. **LB208** (LB208)
Arnholt, M. **LB203** (LB203)
Arnold, C. **LB429** (LB429)
Arnold, M. **LB385** (LB385)
Aroor, A. **LB327** (LB327)
Aroor, A.R. **D69** (LB570)
Arroyo, E. **LB265** (LB265),
LB270 (LB270)
Arroyo, J.A. **LB486** (LB486),
LB493 (LB493)
Arvola, O.J. **LB409** (LB409)
Arzumanyan, D. **LB208**
(LB208)
Arzumanyan, L. **LB208**
(LB208)
Aschidamini, C. **E131**
(LB520)
Ashafa, A. **LB298** (LB298)
Ashraf, U.M. **LB480** (LB480)
Assis, A.P. **LB259** (LB259)
Audi, S.H. **LB170** (LB170)
August, A. **D82** (LB565)
Awe, O.A. **LB390** (LB390)
Axsom, J. **LB288** (LB288),
LB302 (LB302)
Axton, E. **LB108** (LB108)
Ayala-Lopez, N. **C258**
(LB628)
Ayedun, L.A. **D69** (LB570)
Ayon, R.J. **LB444** (LB444)
Azad, P. **LB405** (LB405)
Azarov, J. **LB232** (LB232),
LB315 (LB315)
Azuma, M. **LB70** (LB70)

B

- Baartscheer, A. **LB292**
(LB292)
Bachg, A.C. **LB147** (LB147)
Bachg, S. **LB147** (LB147)
Badoer, E. **LB345** (LB345)
Badri, K.R. **LB427** (LB427)
Baerga-Ortiz, A. **LB52**
(LB52), **LB181** (LB181)
Baglolle, C. **LB494** (LB494)
Bähler, M. **LB147** (LB147)
Bai, J.D.K. **D83** (LB586)
Bai, Y. **LB153** (LB153)

- Bailey, K.R. **LB449** (LB449)
Baily, I. **LB103** (LB103)
Baker, B.M. **LB38** (LB38)
Baker, C. **LB66** (LB66)
Baker, E. **LB489** (LB489)
Baker, J.M. **LB430** (LB430)
Baker, S.E. **LB266** (LB266)
Baladi, M.G. **LB326** (LB326)
Ball, J.R. **D69** (LB570),
LB327 (LB327)
Ballicora, M. **LB68** (LB68)
Bamigboje, T. **LB63** (LB63)
Ban, N. **LB222** (LB222)
Banasova, A. **LB316** (LB316)
Banavali, N. **C259** (LB629)
Bandaru, V.V.R. **LB93** (LB93)
Bankaitis, E. **LB422** (LB422)
Bankaitis, V. **LB182** (LB182)
Banta-Long, W. **LB224**
(LB224)
Banu, N. **C289** (LB616)
Barati, Z. **LB172** (LB172)
Barber, M. **LB208** (LB208)
Barber, T.L. **C274** (LB644)
Barbosa, M.L. **E131** (LB520)
Barcelo-Bovea, V. **LB99**
(LB99)
Barceló-Bovea, V.C. **LB82**
(LB82)
Barguena, R.D.O. **LB350**
(LB350)
Barnes, B. **C285** (LB674)
Barraza, A. **LB205** (LB205)
Barreto, J.E.F. **E130** (LB519)
Barrett, K. **LB357** (LB357)
Barrett, N. **LB472** (LB472)
Barrett-Jolley, R. **LB464**
(LB464), **LB484** (LB484)
Bartolomei, B.A. **LB214**
(LB214)
Barupal, D. **LB108** (LB108)
Barve, S. **C288** (LB677)
Basham, M. **LB65** (LB65)
Basit, A. **C282** (LB652)
Bassett, M. **LB9** (LB9)
Basu, S. **LB31** (LB31)
Bataineh, Z.M. **E157** (LB546)
Bauer, E. **LB204** (LB204),
LB226 (LB226)
Baumann, N. **LB125** (LB125)
Bautista, S. **E133** (LB522)
Bayman, P. **LB123** (LB123)
Beague, T.E. **LB10** (LB10)
Becker, M. **C274** (LB663)
Beerová, N. **C278** (LB605)
Begum, G.K. **LB437** (LB437)
Behera, A.K. **LB13** (LB13)
Behnke, J.E. **LB468** (LB468)
Belal, A. **C264** (LB634)
Belenchia, A.M. **LB142**
(LB142)
Bell, J.E. **LB219** (LB219)
Bello, N.T. **LB379** (LB379)
Belloum, Y. **LB381** (LB381)
Beltran, N.M. **C282** (LB609)
Belval, L. **LB255** (LB255)
Benati, J.M. **LB254** (LB254)
Bender, S. **LB327** (LB327)
Benitez-Ramos, M.J. **D81**
(LB584)
Ben-Moshe, Y. **LB370**
(LB370)
Bennett, E.S. **D66** (LB567)
Benore, M.A. **LB217** (LB217)
Bentley, D.C. **E122** (LB511)
Berceli, S. **LB346** (LB346)
Berg, J.O. **LB283** (LB283)
Bergeron, E.R. **LB246**
(LB246)
Berish, B. **LB462** (LB462)
Bernabei, R. **LB167** (LB167)
Bernardi, M.M. **D78** (LB561)
Bernier, M. **LB288** (LB288)
Bernikova, O. **LB315** (LB315)
Beshish, A. **LB313** (LB313)
Bessa Lima, F. **LB391**
(LB391)
Beuning, P. **LB94** (LB94)
Bevensee, M.O. **LB443**
(LB443)
Beyer, K.S. **LB257** (LB257)
Beyman, M. **LB288** (LB288)
Bhatia, R. **LB210** (LB210)
Bhatt, D. **C282** (LB652)
Bhattacharjee, R. **E132**
(LB521)
Bhattacharya, A. **LB13** (LB13)
Bhave, V. **C290** (LB679)
Bhavsar, R. **C297** (LB624)
Bhella, P.S. **LB271** (LB271)
Bhowmik, D. **LB178** (LB178)
Bianco-Junior, C. **C298**
(LB625)
Biancolillo, A. **LB167**
(LB167)
Bibus, D. **LB179** (LB179)
Bigalke, J.A. **LB465** (LB465)
Bigelow, K.E. **LB322** (LB322)
Bihun, V.V. **LB436** (LB436)
Billington, R. **LB120** (LB120)
Bingham, S. **LB115** (LB115)
Binmahfooz, A. **LB49** (LB49)
Birbara, N. **E145** (LB534)
Bishop, R. **LB106** (LB106)
Bisson, G.S. **C275** (LB664),
E115 (LB504), **E153**
(LB542), **E155** (LB544)
Bivona, J.J. **LB258** (LB258)
Blackburn, J.C. **LB421**
(LB421)
Bledsoe, A. **LB340** (LB340)
Blondelle, J. **LB484** (LB484)
Bloomfield, M. **C278** (LB667)
Blumenthal, D. **LB56** (LB56)
Blutt, S.E. **E124** (LB513)
Blythe, J.W. **LB235** (LB235)
Boamah, D. **LB31** (LB31)
Bobinac, D. **E119** (LB508)
Bobinac, M. **E119** (LB508)
Bock, J.M. **LB253** (LB253)
Boeri, M. **LB90** (LB90)
Bogie, H. **LB335** (LB335)
Bohn, M. **LB203** (LB203)
Boltes Reis, G. **LB391**
(LB391)
Boluwaduro, A. **LB63** (LB63),
LB76 (LB76)
Bondoc, J. **LB105** (LB105)
Bonin, E. **LB302** (LB302)
Bonini, B. **LB143** (LB143)
Bonini, N. **E150** (LB539)
Boo, S. **LB321** (LB321)
Booker, S. **LB57** (LB57)
Boosalis, C. **C275** (LB645)
Boras, I. **E133** (LB522)
Borges Arias, H. **LB25** (LB25)
Borges Jr., F.A. **LB355**
(LB355)
Borges, G.S. **LB470** (LB470)
Boroumand, S. **C290** (LB617)
Bortz, E. **C282** (LB671)
Bouillon, T. **C277** (LB647),
C283 (LB653)
Bouvier, M. **C270** (LB659),
C272 (LB661)
Bowen, W. **D72** (LB573)
Boyett, J. **LB256** (LB256)
Bradley, E. **LB436** (LB436)
Braga Neto, J.d.S. **E131**
(LB520)
Brancaleon, L. **LB83** (LB83)
Branch, A.M. **LB180** (LB180)
Branco, L.G.D.S. **LB470**
(LB470)
Brandizzi, F. **LB190** (LB190)
Bravo, C. **LB143** (LB143)
Breaker, R.R. **LB18** (LB18)
Breault, D.T. **LB358** (LB358)
Brecher, M. **C259** (LB629)
Brechtel, T.M. **LB42** (LB42)
Bredahl, E. **LB351** (LB351)
Breit, M. **LB399** (LB399)
Brewer, K. **LB304** (LB304),
LB457 (LB457)
Britto, F. **LB381** (LB381)
Brock, G. **C288** (LB677)
Brofen-Quiñones, S. **LB223**
(LB223)
Brooks, S.V. **LB490** (LB490)
Brotto, L. **LB491** (LB491)
Brotto, M. **LB491** (LB491)
Brown, A. **LB472** (LB472)
Brown, C. **LB258** (LB258),
LB378 (LB378)
Brown, K. **LB489** (LB489)
Brown, M.F. **LB64** (LB64)
Brown, R. **LB463** (LB463)
Brown, S. **LB327** (LB327)
Brown, T.L. **LB164** (LB164)
Brownell, S. **LB227** (LB227)
Brumell, J.H. **LB419** (LB419)
Bruss, A. **LB224** (LB224)
Brutsaert, T.C. **LB414** (LB414)
Brutsaert, T.D. **LB407**
(LB407)
Bryner, R. **LB399** (LB399)
Buated, W. **LB451** (LB451)
Bucci, B. **LB242** (LB242)
Buchholtz, N. **LB292** (LB292)
Buckles, T. **LB127** (LB127)
Buckley, M.M. **LB363**
(LB363)
Budanov, A.V. **LB150** (LB150)
Buehler, S. **LB206** (LB206)
Bui, B.H. **LB194** (LB194)
Bui, H. (G). **LB205** (LB205)
Bujaidar-Jonguitud, F. **D76**
(LB559)
Bukartyk, J. **LB266** (LB266)
Bûlbûl, M. **LB473** (LB473)
Bunday, L. **LB207** (LB207)
Bungert, J. **LB9** (LB9)
Burgess, J.L. **LB53** (LB53)
Burgess, R.A. **LB53** (LB53)
Burggren, W.W. **LB435**
(LB435)
Burke, J. **LB73** (LB73)
Burrage, E. **LB399** (LB399)
Burrows, A.M. **E143** (LB532)
Buscemi, K. **LB472** (LB472)

- Busekrus, R. **LB351** (LB351)
 Bushroe, C.M. **LB329** (LB329)
 Bussmann, E. **LB207** (LB207)
 Bustamante Armenta, H.E. **C270** (LB640)
 Butts, C. **LB256** (LB256)
 Buys, M. **LB340** (LB340)
 Byeon, J-Y **C286** (LB656)
- C**
- Cabrales, P. **LB279** (LB279), **LB337** (LB337), **LB338** (LB338)
 Cáceres-Cortés, J.R. **D83** (LB566)
 Cadet, V.E. **LB124** (LB124)
 Cadieux, C.L. **LB67** (LB67), **LB79** (LB79)
 Cai, H. **LB19** (LB19)
 Cai, L. **LB276** (LB276)
 Cai, Y. **C268** (LB595)
 Cai, Y.D. **C273** (LB600)
 Cain, R.M. **LB435** (LB435)
 Calcagno, C. **E144** (LB533)
 Caldari-Torres, C. **LB224** (LB224)
 Caldwell, A. **LB261** (LB261)
 Callahan, B. **LB165** (LB165)
 Calsbeek, J. **C275** (LB645)
 Calvani, R. **LB4** (LB4), **LB167** (LB167)
 Calzada-Mendoza, C.C. **D83** (LB566), **LB119** (LB119)
 Camara, A.K. **LB161** (LB161)
 Camara, A.K.S. **LB170** (LB170)
 Camarillo, J. **LB96** (LB96)
 Campos, H.O. **LB268** (LB268)
 Canter, Z. **LB79** (LB79), **LB90** (LB90)
 Cao, P. **LB190** (LB190)
 Capacio, B.R. **LB93** (LB93)
 Caperuto, E.C. **LB259** (LB259)
 Carlisle, R.E. **LB354** (LB354)
 Carlos, W.G. **LB226** (LB226)
 Carlotti Junior, C.G. **E115** (LB504), **E153** (LB542), **E155** (LB544)
 Carmichael, R. **E132** (LB521)
 Carnac, G. **LB381** (LB381)
 Carretero, O.A. **D78** (LB581)
 Carroll, C.C. **LB247** (LB247)
 Carroll, M. **LB226** (LB226)
 Carvalho, A. **E131** (LB520)
 Carvalho, L.J.d.M. **C298** (LB625)
 Casa, D.J. **LB255** (LB255), **LB258** (LB258)
 Case, H. **LB54** (LB54)
 Casey, D.P. **LB253** (LB253)
 Castelo-Branco, R.C. **LB355** (LB355)
 Castorena-Gonzalez, J.A. **LB278** (LB278)
 Ceballos, C.C. **LB454** (LB454)
 Cecchini, G. **LB41** (LB41)
 Celic, T. **E119** (LB508)
 Centanni, R. **LB313** (LB313)
 Cerasoli, D. **LB90** (LB90)
 Cerasoli, D.M. **LB67** (LB67), **LB79** (LB79)
 Cerqueira, G. **E131** (LB520)
 Cerqueira, G.S. **E130** (LB519)
 Cerutis, D.R. **D79** (LB562)
 Cervone, D.T. **LB387** (LB387)
 Cesak, O. **E111** (LB500)
 Cha, M-K **LB140** (LB140)
 Chabi, B. **LB381** (LB381)
 Chadha, S. **LB207** (LB207)
 Chafe, Z. **LB202** (LB202)
 Chairoungdua, A. **C291** (LB680)
 Chakker, H.A. **LB329** (LB329)
 Chakkour, M. **LB425** (LB425)
 Chakravarty, S. **LB31** (LB31)
 Chan, D. **LB74** (LB74)
 Chandrasekar, I. **LB447** (LB447)
 Chang, M. **LB200** (LB200)
 Channaveerappa, D. **LB117** (LB117)
 Chantler, P. **LB399** (LB399)
 Chapleau, M.W. **LB442** (LB442)
 Chapman, C.L. **LB254** (LB254)
 Chapman, H. **LB341** (LB341)
 Chapman, J. **LB3** (LB3)
 Chapp, A.D. **LB468** (LB468)
 Chatsudthipong, V. **LB446** (LB446)
 Chatterjee, S. **C277** (LB647), **LB482** (LB482)
 Chavantes, M.C. **LB310** (LB310)
 Chawla, A. **LB150** (LB150)
 Chawla, U. **LB64** (LB64)
 Cheatwood, N.Y. **LB72** (LB72)
 Cheema, M.U. **LB291** (LB291)
 Chen, C. **C268** (LB595)
 Chen, C-C **LB35** (LB35)
 Chen, L. **D73** (LB556)
 Chen, N-H **C283** (LB610)
 Chen, Q.H. **LB465** (LB465), **LB468** (LB468)
 Chen, R. **LB252** (LB252)
 Chen, T. **LB497** (LB497)
 Chen, Y. **C274** (LB601)
 Chen, Z. **LB19** (LB19)
 Cheng, E. **LB367** (LB367)
 Cheng, J. **C263** (LB633)
 Cheng, K. **LB389** (LB389)
 Cheng, K.K. **D73** (LB576)
 Cherian, S. **LB290** (LB290)
 Cheta, J. **C292** (LB619)
 Cheung, E.C. **LB497** (LB497)
 Chiang, A. **LB211** (LB211)
 Chick, W.S. **LB396** (LB396)
 Chidi, N. **LB160** (LB160)
 Chien, K.Y. **LB194** (LB194)
 Chilian, W. **LB280** (LB280)
 Chilian, W.M. **LB311** (LB311), **LB332** (LB332)
 Chinchilla, S. **LB280** (LB280)
 Chinthirla, B. **C280** (LB650)
 Chiou, I-C **LB107** (LB107)
 Chitrakar, I. **LB62** (LB62)
 Cho, B-Y **LB84** (LB84), **LB85** (LB85), **LB86** (LB86)
 Cho, S.J. **C292** (LB681)
 Cho, S-H **C263** (LB633)
 Chock, B.P. **LB151** (LB151)
 Chockalingam, A. **C297** (LB686)
 Choi, E. **LB224** (LB224)
 Choi, G. **LB78** (LB78)
 Choi, I. **LB411** (LB411)
 Choi, J. **LB243** (LB243), **LB477** (LB477)
 Choi, M.D. **LB250** (LB250), **LB251** (LB251)
 Choi, S.H. **LB78** (LB78)
 Choi, S-H **LB84** (LB84), **LB85** (LB85), **LB86** (LB86)
 Choi, S-I **LB84** (LB84), **LB85** (LB85), **LB86** (LB86)
 Chompre, G. **LB223** (LB223)
 Choules, M.P. **C263** (LB633)
 Choung, J. **LB243** (LB243)
 Chovanec, M. **LB316** (LB316)
 Chow, A. **LB202** (LB202)
 Chow, J.L. **LB486** (LB486)
 Christian, K.H. **LB260** (LB260)
 Christou, D.D. **LB333** (LB333)
 Chu, B.D. **LB360** (LB360)
 Chu, S-F **C283** (LB610)
 Chu, W-C **LB69** (LB69)
 Chudzinski-Tavassi, A.M. **LB188** (LB188), **LB189** (LB189)
 Chumakov, P.M. **LB150** (LB150)
 Chung, S. **LB271** (LB271)
 Church, D.D. **LB257** (LB257)
 Chweih, H. **C294** (LB621)
 Cicha, M.Z. **LB442** (LB442)
 Çimen, H. **LB118** (LB118)
 Cina, M. **LB203** (LB203)
 Cirino, M.L.A. **E137** (LB526)
 Cirino, M.L.d.A. **C275** (LB664), **E115** (LB504), **E153** (LB542), **E155** (LB544)
 Clair, J. **LB109** (LB109)
 Clark, G. **C288** (LB677)
 Clark, M. **C275** (LB602)
 Clark, M.A. **C284** (LB611)
 Clarke, J. **LB401** (LB401)
 Claudino, M.A. **C294** (LB621)
 Clayton, S.C. **LB466** (LB466)
 Clayton, Z. **LB396** (LB396)
 Clister, T. **C277** (LB666)
 Coats, W. **LB215** (LB215)
 Cohen, E.M. **LB408** (LB408)
 Coimbra, C.C. **LB268** (LB268)
 Coker, M.S. **LB252** (LB252)
 Coker, R.H. **LB252** (LB252)
 Colburn, A. **LB255** (LB255)
 Colburn, A.T. **LB256** (LB256), **LB258** (LB258)
 Coleman, T. **LB343** (LB343)
 Colli, B.O. **E115** (LB504)
 Collier, A.E. **LB26** (LB26)
 Collin, A. **LB165** (LB165)
 Collins, C. **C282** (LB652)
 Colon, M. **LB223** (LB223)
 Colon-Rios, D.A. **LB45** (LB45)
 Colson, J. **D80** (LB583)
 Concepcion, J. **LB321** (LB321)
 Conran, N. **C294** (LB621)

- Consortium, a.t.M. **LB392** (LB392)
 Conston, J. **LB445** (LB445)
 Contreras, H.L. **LB234** (LB234)
 Contreras, I. **LB372** (LB372), **LB450** (LB450)
 Convertino, V.A. **LB266** (LB266)
 Coombs, G. **LB293** (LB293)
 Cooper, A. **C267** (LB637)
 Cooper, K. **E138** (LB527), **LB227** (LB227)
 Cooperman, G. **LB94** (LB94)
 Copes, E. **LB208** (LB208)
 Copps, J. **LB56** (LB56)
 Corante, N. **LB479** (LB479)
 Cordova, J. **LB12** (LB12)
 Coronel, R. **LB292** (LB292)
 Correa-González, J.A. **D68** (LB569)
 Cortade, F. **LB381** (LB381)
 Cosgrove, C. **LB38** (LB38)
 Cosio-Lima, I.M. **LB452** (LB452)
 Costa, C. **E131** (LB520)
 Costa, F.F. **C294** (LB621)
 Costa, T.N.F.D. **LB393** (LB393)
 Costa, Y. **E131** (LB520)
 Couto, G.K. **LB334** (LB334)
 Cowan, N. **LB200** (LB200)
 Cowburn, D. **LB58** (LB58)
 Cowley, A.W. **LB170** (LB170)
 Crajoiinas, R.O. **LB355** (LB355)
 Crawford, C.K. **LB474** (LB474)
 Crecelius, A.R. **LB322** (LB322)
 Crooke, R. **LB353** (LB353)
 Cross, S. **LB401** (LB401)
 Crow, K.D. **E142** (LB531)
 Crow, T. **LB208** (LB208)
 Crowl, L. **LB216** (LB216)
 Cruz, C. **LB245** (LB245)
 Cruz, M. **LB223** (LB223)
 Csobonyeiova, M. **E162** (LB551)
 Cui, L. **LB301** (LB301)
 Cui, W. **LB16** (LB16), **LB200** (LB200)
 Cumpston, D. **LB280** (LB280), **LB332** (LB332)
 Cunha, A.O.S. **LB454** (LB454)
 Curcio, D.F. **E114** (LB503)
 Curras-Collazo, M. **C280** (LB650)
 Custance, M. **LB3** (LB3)
- D**
- da Costa-Neto, C.M. **C270** (LB659)
 da Cunha, J.P. **C275** (LB664)
 Da Silva, G. **E131** (LB520)
 da Silva, J.P. **E115** (LB504)
 Da Silva, M. **E131** (LB520)
 da Silva, M.B. **LB326** (LB326)
 Dadzie, E.C. **LB256** (LB256), **LB258** (LB258)
 Daghlas, S.A. **D75** (LB578)
 Dailey, M.J. **LB462** (LB462)
 Dajee, D. **LB422** (LB422)
 Dalboni, M.A. **LB350** (LB350)
 D'Alessandro, A. **LB172** (LB172)
 D'Alessandro-Gabazza, C.N. **D72** (LB555), **LB348** (LB348)
 Dallago, B. **D90** (LB593)
 Dallas, S. **LB491** (LB491)
 Dalton, R. **LB371** (LB371)
 Dam, V. **LB441** (LB441)
 Daniel-Ribeiro, C.T. **C298** (LB625)
 Danisovic, L. **E125** (LB514), **E160** (LB549), **E162** (LB551)
 Dao, T. **LB90** (LB90)
 Darie, C.C. **LB117** (LB117)
 Das, A. **LB178** (LB178), **LB183** (LB183)
 Dash, R.K. **LB170** (LB170)
 D'Ausilio, M.E. **LB211** (LB211)
 Davie, J. **LB144** (LB144)
 Davies, L. **LB215** (LB215)
 Davis, J. **LB42** (LB42)
 Davis, J.E. **C279** (LB668)
 Davis, R.J. **LB258** (LB258)
 Day, T. **LB414** (LB414)
 Day, T.A. **LB407** (LB407)
 Day, X. **D80** (LB563)
 Dayan, N. **LB289** (LB289)
 de Almeida Rego, J. **LB115** (LB115)
 de Almeida, C.R. **E114** (LB503)
 De Angelis, K. **LB259** (LB259)
 de Castro, M.B. **D90** (LB593)
 de Couto, G. **LB438** (LB438)
 de Deus, J.L. **LB454** (LB454)
 De Fatima Silva, F. **LB391** (LB391)
 De Godoy, J.R. **E131** (LB520)
 De La Cruz, L. **LB457** (LB457)
 de la Rosa-González, N. **LB418** (LB418)
 De Leon, L. **LB215** (LB215)
 De Leon, R. **E136** (LB525)
 De Leon-Diaz de Leon, E. **D76** (LB559)
 de Oliveira, E.B. **C270** (LB659)
 de Souza, L.E. **LB326** (LB326)
 de Witte, P. **C277** (LB647), **C283** (LB653)
 Dean, T. **LB398** (LB398)
 DeBus, S. **LB67** (LB67), **LB90** (LB90)
 deCabo, R. **LB288** (LB288)
 Deferm, N. **C277** (LB647), **C283** (LB653)
 DeForest, E. **LB466** (LB466)
 del Rio, C.L. **LB335** (LB335)
 Del Rio, R. **LB461** (LB461), **LB475** (LB475)
 Delaney, K. **LB441** (LB441)
 Delgado, Y. **LB92** (LB92)
 Delinois, L.J. **LB99** (LB99)
 Delles, C. **LB289** (LB289)
 Demas, G.E. **LB230** (LB230)
 Demeler, B. **LB83** (LB83)
 Deng, M. **LB202** (LB202)
 Deng, S. **LB475** (LB475)
 Deng, W. **D66** (LB567)
 Department, A. **LB89** (LB89)
 Desai, D. **C288** (LB615)
 Devarshi, P.P. **LB248** (LB248), **LB249** (LB249)
 Deveryshetty, J. **LB6** (LB6)
 Dey, S. **LB178** (LB178)
 Deyle, M.R. **LB493** (LB493)
 Deyoe, J.E. **LB230** (LB230)
 Dhanasekaran, M. **C288** (LB615)
 Diab, H. **C260** (LB630)
 Dias Neto, F. **E131** (LB520)
 Díaz Arizmendi, A.L. **LB372** (LB372)
 Díaz-Cartagena, D.C. **LB181** (LB181)
 DiCenzo, R. **C271** (LB641)
 Dickens, C. **LB322** (LB322)
 Dickenson, N. **LB53** (LB53), **LB54** (LB54)
 Dickhout, J.G. **LB354** (LB354)
 Dickinson, J.M. **LB247** (LB247)
 Diffée, G.M. **LB336** (LB336)
 Dimitriev, D. **LB307** (LB307)
 Ding, B. **LB150** (LB150)
 Ding, H.M. **C280** (LB669)
 Ding, M. **C274** (LB644), **LB456** (LB456)
 Ding, X. **C279** (LB649)
 diTargiani, R.C. **LB93** (LB93)
 Dittrich, A. **LB456** (LB456)
 D'Lugos, A.C. **LB247** (LB247)
 do Amaral, C. **LB424** (LB424)
 Doble, K. **LB82** (LB82)
 Dobrzynski, E. **LB68** (LB68)
 Doering, L. **LB300** (LB300)
 Dombrowsky, T. **LB271** (LB271)
 Dominguez, V. **D89** (LB592)
 Donnelly, J. **LB293** (LB293)
 dos Santos, J.S. **E137** (LB526)
 Downey, F.X. **C277** (LB604)
 Downing, A. **LB203** (LB203)
 Dreier, R. **LB283** (LB283)
 Drew, K. **LB103** (LB103), **LB172** (LB172), **LB179** (LB179)
 Drohomýrecký, M. **LB213** (LB213)
 Drummond, L. **LB268** (LB268)
 Du, G. **C291** (LB618), **C294** (LB683)
 Du, L. **C291** (LB618)
 Duarte, D.A. **C270** (LB659)
 Dubacq, S. **D82** (LB585)
 Dubowy, C. **E149** (LB538)
 Duff, R. **C276** (LB603)
 D'UmeUS, S. **LB417** (LB417)
 Dumitrascu, F. **LB202** (LB202)
 Dunn, E.N. **LB67** (LB67)
 Durali, N. **LB357** (LB357)
 Duric, V. **C285** (LB612), **LB466** (LB466)
 Dyck, D.J. **LB387** (LB387)
 Dyer, S. **LB484** (LB484)

E

- Earnest, C.P. **LB371** (LB371)
 Ebert, K.M. **C279** (LB606)
 Eby, J.M. **LB38** (LB38)
 Echeagaray-Bredesen, O.E. **E134** (LB523)
 Eckhart, K. **LB242** (LB242)
 Eckman, D.M. **LB312** (LB312), **LB318** (LB318)
 Eddy, A.C. **LB341** (LB341)
 Eddy, C. **LB317** (LB317)
 Ednie, A.R. **D66** (LB567)
 Eerbeek, O. **LB292** (LB292)
 Egner, J.M. **LB185** (LB185)
 Ehlers, M. **LB210** (LB210)
 Ehrlich, A.M. **LB359** (LB359)
 Eickhoff, I. **LB218** (LB218)
 Eiden, L.E. **LB455** (LB455)
 Einstein, G.P. **C284** (LB673), **D77** (LB580), **LB136** (LB136), **LB164** (LB164), **LB459** (LB459)
 Ekman, M. **LB286** (LB286)
 Eladl, M.A. **D84** (LB587)
 Elashoff, R.M. **LB300** (LB300)
 Elavsky, S. **LB308** (LB308)
 Eldridge, M. **LB313** (LB313)
 Elliott, A. **LB339** (LB339)
 Ellis, C.G. **LB282** (LB282)
 Ellis, J. **C276** (LB665)
 Ellis, M. **LB349** (LB349)
 Elmslie, G. **C276** (LB665)
 Elrayess, M.A. **LB175** (LB175)
 Elsaghayer, W. **C260** (LB630)
 El-Sherbiny, M. **D84** (LB587)
 El-Yazbi, A.F. **C264** (LB634)
 Elzahhar, P. **C264** (LB634)
 Elzie, C. **E129** (LB518)
 Emelyanova, L. **C277** (LB604)
 Emery, A.C. **LB455** (LB455)
 Enrick, M. **LB280** (LB280), **LB311** (LB311), **LB332** (LB332)
 Erberich, J. **E138** (LB527)
 Eriksen, J. **LB320** (LB320)
 Erisoglu-Akyildiz, K. **LB202** (LB202)
 Escobar, M. **LB20** (LB20)
 Escobar-Hoyos, L.F. **D83** (LB586)
 Escudero, D. **LB317** (LB317)
 Esmaili, M. **LB106** (LB106)
 Esmer-Sánchez, D. **D68** (LB569)
 Espino, A. **LB193** (LB193)
 Espino, A.M. **D81** (LB564)
 Espino-Hernández, A.M. **D81** (LB584)
 Espinosa-Tanguma, R. **LB319** (LB319)
 Esquivel-Hernández, F.J. **LB450** (LB450)
 Esser, E. **LB208** (LB208)
 Esteban, S.T. **LB445** (LB445)
 Estrada, D.F. **LB55** (LB55)
 Estrada, J.A. **LB372** (LB372), **LB450** (LB450)
 Eugene, A.R. **C271** (LB641), **C288** (LB658), **LB236** (LB236)
 Eugene, B. **C271** (LB641), **C288** (LB658), **LB236** (LB236)
 Evanchik, M. **LB335** (LB335)
 Evans, C. **LB447** (LB447)
 Evans, J. **LB264** (LB264)
 Excoffon, K. **LB17** (LB17)
 Ezatagha, A. **LB373** (LB373)

F

- Faber, C. **LB147** (LB147)
 Fagbohun, O. **C287** (LB676)
 Fahoury, E. **C288** (LB615)
 Faitg, J. **LB481** (LB481)
 Falke, J. **LB127** (LB127)
 Falvo, M. **LB264** (LB264), **LB323** (LB323)
 Falvo, M.J. **LB304** (LB304)
 Fan, J. **LB239** (LB239)
 Fancher, I.S. **LB309** (LB309)
 Fareed, J. **C276** (LB603), **D67** (LB568)
 Farhana, L. **D71** (LB572)
 Faries, C.M. **E144** (LB533)
 Faries, P. **E144** (LB533)
 Farnham, M.M. **LB408** (LB408)
 Fassler, A. **LB199** (LB199)
 Favier, F. **LB381** (LB381)
 Favot, C. **LB371** (LB371)
 Favre, M. **LB323** (LB323)
 Favre, M.E. **LB304** (LB304)
 Fayad, Z. **E144** (LB533)
 Feetham, C. **LB464** (LB464)
 Feliciano, E. **LB59** (LB59)
 Felicio, L. **D78** (LB561)
 Fench, J. **LB95** (LB95)
 Ferguson, B. **LB335** (LB335)
 Ferguson, N.J. **LB358** (LB358)
 Fernandes, S. **LB335** (LB335)
 Fernandez, F. **LB20** (LB20)
 Fiegel, H. **LB224** (LB224)
 Fiehn, O. **LB108** (LB108)
 Figueiredo, R.Z. **E137** (LB526)
 Figueroa-Mujica, R. **LB412** (LB412)
 Filipeanu, C. **LB324** (LB324)
 Fiorelli, R.K.A. **E114** (LB503)
 Fiorelli, S.C.A. **E114** (LB503)
 Firminger, M. **LB209** (LB209)
 Fischer, B. **LB143** (LB143)
 Fischer, M. **LB294** (LB294)
 Fischhaber, P. **LB2** (LB2)
 Flanagan, M. **LB203** (LB203)
 Fleischmann, S. **LB204** (LB204)
 Flores, A. **LB115** (LB115)
 Flores-Otero, J. **C293** (LB682), **D87** (LB590)
 Flores-Ramirez, R. **D76** (LB559)
 Florez-Ramírez, R. **D68** (LB569)
 Florian, J.P. **LB246** (LB246)
 Flück, D. **LB293** (LB293)
 Followay, B.N. **LB265** (LB265), **LB270** (LB270)
 Fong, Z. **LB432** (LB432)
 Fontes, M.T. **LB334** (LB334)
 Foote, C.A. **LB275** (LB275), **LB278** (LB278)
 Ford, S.P. **LB19** (LB19)
 Fortino, S.A. **LB430** (LB430)
 Fossas, A. **E118** (LB507)
 Foster, J.D. **LB196** (LB196)
 Fournier, M. **LB438** (LB438)
 Fox, D. **C279** (LB668)
 Fox, K. **LB219** (LB219)
 Fragoso-Bargas, N. **LB110** (LB110), **LB113** (LB113)
 France, C.P. **C280** (LB607), **C281** (LB608)
 Francis, C.E. **LB153** (LB153)
 Franco-Penteado, C.F. **C294** (LB621)
 Franczak, S. **LB204** (LB204)
 Frank, H-G **E123** (LB512)
 Frankfurt, M. **E121** (LB510)
 Franzblau, S.G. **C263** (LB633)
 Fraser, E. **LB209** (LB209)
 Fregosi, R. **LB401** (LB401)

G

- Gaarder, Z.S. **LB196** (LB196)
 Gabazza, E.C. **D72** (LB555), **LB348** (LB348)
 Gadd, J. **LB332** (LB332)
 Gagna, C.E. **LB10** (LB10)
 Galambosova, M. **E160** (LB549)
 Gale Jr., M. **LB145** (LB145)
 Gallagher, A. **LB115** (LB115)
 Gallagher, C. **LB339** (LB339)
 Gallot, Y. **LB381** (LB381)
 Gallup, J. **D91** (LB594)
 Gami, R. **LB197** (LB197)
 Ganio, M. **LB261** (LB261)
 Gao, M. **LB28** (LB28), **LB33** (LB33), **LB34** (LB34)
 Gao, W. **C263** (LB633)
 Gao, Y. **LB301** (LB301)
 García-Ramírez, J.R. **LB113** (LB113)
 Garcia, N. **LB261** (LB261)
 García-Rivera, L. **E150** (LB539)

- Garcia-Vilas, J. **LB416** (LB416)
 Garg, R. **LB94** (LB94)
 Garnelo-Cabañes, S. **LB113** (LB113)
 Garrett, T. **LB346** (LB346)
 Garvin, A. **C270** (LB597)
 Garzon, T. **D89** (LB592)
 Gaspar, A.F. **E137** (LB526)
 Gautham, S. **LB63** (LB63), **LB76** (LB76)
 Gay, B.L. **LB81** (LB81)
 Gbenle, O.A. **LB162** (LB162)
 Gboyega, H.I. **D77** (LB560)
 Ge, R-L **LB410** (LB410)
 Ge, Y. **LB19** (LB19)
 Geddis, A.V. **LB130** (LB130)
 Gehrke, S. **LB172** (LB172)
 Geiger, M. **LB209** (LB209)
 Geiss, L. **LB229** (LB229), **LB424** (LB424)
 Gelles, J. **C286** (LB613)
 Geltz, E.T. **LB360** (LB360)
 George, E.M. **LB341** (LB341)
 Georgescu, V. **LB340** (LB340)
 Gerak, L.R. **C281** (LB608)
 Gervasoni, J. **LB167** (LB167)
 Gessel, M. **LB60** (LB60)
 Ghadhanfar, E. **LB290** (LB290)
 Gharakhanian, E. **LB186** (LB186)
 Ghiarone, T. **LB275** (LB275)
 Ghosh, S. **LB137** (LB137)
 Ghribi, O. **LB7** (LB7)
 Gibson, B.M. **LB265** (LB265), **LB270** (LB270)
 Gibson, D. **LB429** (LB429)
 Giddens, M. **C293** (LB620)
 Gideon, E.A. **LB254** (LB254)
 Giersch, G. **LB255** (LB255)
 Gilchrist, T.J. **LB196** (LB196)
 Giles, J. **LB475** (LB475)
 Gill, K. **C288** (LB615)
 Giorgetti-Peraldi, S. **LB381** (LB381)
 Girardi, A.C.C. **LB355** (LB355)
 Glaser, S. **D73** (LB556)
 Glass, J. **LB206** (LB206)
 Gleason, E.K. **LB70** (LB70)
 Glen, D. **E129** (LB518)
 Glickman, E.L. **LB265** (LB265), **LB270** (LB270)
 Glover, D.M. **LB15** (LB15)
 Glynn, E.L. **LB373** (LB373)
 Gobejishvili, L. **C288** (LB677)
 Godfrey, G. **LB65** (LB65)
 Goetz, S.C. **C279** (LB668)
 Goldfeder, M.B. **LB189** (LB189)
 Goldstein, D. **LB229** (LB229), **LB424** (LB424)
 Golovko, V. **LB305** (LB305), **LB433** (LB433)
 Gomes Soares, P.M. **LB362** (LB362)
 Gomes, B.A. **E114** (LB503)
 Gómez-Moreno, R. **LB181** (LB181)
 Gonçalves, F.Z. **C275** (LB664)
 Gong, D. **LB213** (LB213)
 Gonotkov, M. **LB305** (LB305)
 Gonzales, J.U. **LB308** (LB308)
 Gonzalez, E. **C275** (LB645)
 Gonzalez-Charles, A.P. **LB223** (LB223)
 González-Feliciano, J.A. **LB99** (LB99)
 González-Méndez, R. **LB52** (LB52)
 Goodman, C. **E124** (LB513)
 Goodman, M.A. **D76** (LB579)
 Goodson, M. **LB359** (LB359)
 Goolsby, B. **LB476** (LB476)
 Gorbet, G.E. **LB83** (LB83)
 Gordillo-Moscoso, A. **D68** (LB569)
 Gordillo-Moscoso, A.A. **D76** (LB559)
 Gortstein, L. **LB317** (LB317)
 Goss, K. **LB313** (LB313)
 Goto, A. **LB488** (LB488)
 Gousspillou, G. **LB481** (LB481)
 Gozal, E. **LB276** (LB276)
 Graham, A. **C285** (LB674)
 Graham, J. **LB474** (LB474)
 Graham, M. **LB353** (LB353)
 Grako, M. **LB462** (LB462)
 Granite, G. **E112** (LB501)
 Grant, D.M. **C284** (LB654)
 Graves, L. **C285** (LB612)
 Gray, W. **LB101** (LB101)
 Grayson, B.E. **LB344** (LB344)
 Green, D. **LB293** (LB293)
 Greenberg, M. **LB191** (LB191)
 Greenwood, M. **LB371** (LB371)
 Gremminger, V.L. **D75** (LB578)
 Greyslak, K.T. **LB398** (LB398)
 Griebenow, K. **LB82** (LB82), **LB92** (LB92), **LB99** (LB99)
 Griffin, C. **LB432** (LB432)
 Griffiths, B. **LB409** (LB409)
 Griffith-Topps, A. **LB204** (LB204)
 Grolmusz, V. **LB111** (LB111)
 Grossman, S. **LB150** (LB150)
 Grotle, A-K **LB474** (LB474)
 Grover, N. **LB219** (LB219)
 Groves, T. **E154** (LB543)
 Grubic, T.J. **LB371** (LB371)
 Grunewald, Z.I. **D69** (LB570), **LB327** (LB327)
 Grzelak, E.M. **C263** (LB633)
 Gu, W. **LB412** (LB412)
 Gu, X. **C293** (LB620)
 Gude, N. **E134** (LB523)
 Guerrero, I. **LB215** (LB215)
 Guevara, J. **LB39** (LB39), **LB89** (LB89)
 Guevarra, C. **LB65** (LB65)
 Guidry, J.J. **LB324** (LB324)
 Guihurt, G. **LB82** (LB82)
 Guimei, M. **D84** (LB587)
 Guinta, G. **LB379** (LB379)
 Gulten, G. **LB182** (LB182)
 Gunga, H-C **LB252** (LB252)
 Guo, W. **LB19** (LB19)
 Guo, Z-L **LB467** (LB467)
 Gupta, A. **LB178** (LB178)
 Gupta, M.R. **LB10** (LB10)
 Gurumurthy, A. **LB9** (LB9)
 Gusmão, J.N.F.M. **E130** (LB519)
 Gustafson, D. **C283** (LB672)
 Gutierrez, H. **E138** (LB527)
 Gutierrez-Iglesias, G.C. **D83** (LB566)
 Gutzwiller, L. **LB206** (LB206)
 Guy, C. **LB9** (LB9)
 Gwathmey, T.M. **LB228** (LB228)
- ## H
- Ha, H. **C295** (LB622)
 Habbal, F.W. **D84** (LB587)
 Habeeballah, H.H. **LB345** (LB345)
 Haber, Y. **LB323** (LB323)
 Hacker, T.A. **LB336** (LB336)
 Haddad, G. **LB405** (LB405)
 Haesen, D. **LB143** (LB143)
 Hafizi, S. **LB138** (LB138)
 Hagler, M.A. **LB303** (LB303)
 Hagstrom, L. **D90** (LB593)
 Hahka, T.M. **LB465** (LB465)
 Haidery, A.E. **LB10** (LB10)
 Haigh, K. **LB237** (LB237)
 Halaby, S. **LB184** (LB184)
 Hale, T. **C270** (LB597)
 Hall, B. **LB206** (LB206)
 Hall, J. **LB56** (LB56)
 Hall, K.C. **E142** (LB531)
 Hall, R. **C293** (LB620)
 Halpin, P.A. **LB221** (LB221)
 Hamar, J.C. **LB440** (LB440)
 Hamdan, H. **D71** (LB554)
 Hamidpour, S. **D71** (LB554)
 Hamilton, K. **LB263** (LB263)
 Hampl, V. **LB316** (LB316)
 Han, J. **E152** (LB541)
 Han, K.C. **LB85** (LB85)
 Han, L.W. **C287** (LB657)
 Han, X. **LB84** (LB84), **LB85** (LB85), **LB86** (LB86)
 Han, Y. **LB14** (LB14)
 Han, Y-P **D70** (LB553)
 Hancock, C.R. **LB403** (LB403), **LB439** (LB439), **LB498** (LB498)
 Handberg, E.M. **LB333** (LB333)
 Hani Saba, A. **LB82** (LB82)
 Hanley, P.J. **LB147** (LB147)
 Hanno, G. **LB272** (LB272), **LB273** (LB273)
 Hansen, A. **LB293** (LB293)
 Hantla, D. **LB376** (LB376)
 Hanumantha Rao, K. **LB137** (LB137)
 Haraldsdottir, K. **LB313** (LB313)
 Haralson, B. **LB210** (LB210)
 Hari, S.K. **LB63** (LB63), **LB76** (LB76)
 Harlen, K.M. **C268** (LB638), **C269** (LB639)
 Harley, J.S. **LB403** (LB403)
 Harman, J. **LB47** (LB47)
 Harmon, M. **C285** (LB674)
 Harms, M. **LB47** (LB47)
 Harralson, A. **C271** (LB641)
 Harris, M.Y. **LB72** (LB72)
 Harrou, A. **D84** (LB587)
 Hart, R.G. **LB447** (LB447)

- Hartzell, K. **LB261** (LB261)
 Harvey, M. **LB175** (LB175)
 Harwig, J. **LB185** (LB185)
 Harwig, M.C. **LB185** (LB185)
 Hasan, D.S. **LB98** (LB98)
 Hassoun, E.A. **C278** (LB648)
 Haussler, M. **LB146** (LB146)
 Haussler, M.R. **LB155** (LB155)
 Hautala, L. **LB203** (LB203)
 Havel, P.J. **LB474** (LB474)
 Hawkins, W. **LB489** (LB489)
 Hayama, R. **LB58** (LB58)
 Hayashi, S. **E148** (LB537), **E151** (LB540)
 Haykowsky, M.J. **LB271** (LB271)
 He, Y. **C268** (LB595), **LB14** (LB14)
 Heaphy, M. **LB47** (LB47)
 Hecht, M. **D90** (LB593)
 Heck, A. **LB56** (LB56)
 Heck, D.G. **E156** (LB545)
 Heck, M. **LB98** (LB98)
 Hedin, U. **LB283** (LB283)
 Heinrich, E.C. **LB412** (LB412), **LB413** (LB413), **LB478** (LB478), **LB479** (LB479)
 Heisner, J.S. **LB161** (LB161)
 Hemingway, H.W. **E143** (LB532)
 Henagan, T.M. **LB248** (LB248), **LB249** (LB249), **LB375** (LB375)
 Hendawy, M.A. **C266** (LB636)
 Henderson, E. **D75** (LB558)
 Hendzel, M. **LB416** (LB416)
 Henning, S.W. **LB38** (LB38)
 Henrick, B. **LB359** (LB359)
 Hensley, J. **C261** (LB631)
 Henze, M. **LB335** (LB335)
 Hepperle, M. **LB79** (LB79)
 Hepple, R.T. **LB494** (LB494)
 Herget, J. **LB316** (LB316)
 Hernández Rodríguez, M. **LB102** (LB102)
 Hernandez, C.A. **LB235** (LB235)
 Hernandez, D. **C279** (LB668)
 Hernández, V.S. **LB455** (LB455)
 Hernandez-Carretero, A.M. **LB382** (LB382)
 Hernandez-Casner, C. **C282** (LB609)
 Hernández-Méndez, A. **LB319** (LB319)
 Hernandez-Oviedo, I. **LB202** (LB202)
 Herring, L. **C285** (LB612)
 Hesse, J. **LB296** (LB296)
 Hetrick, B. **LB396** (LB396), **LB398** (LB398)
 Hetrick, K.J. **LB88** (LB88)
 Hielscher, A. **C290** (LB679)
 Hifumi, E. **LB77** (LB77), **LB80** (LB80)
 Hildreth, K.L. **LB397** (LB397)
 Hill, J. **D80** (LB563)
 Hill, J.T. **LB497** (LB497)
 Hill, R.B. **LB185** (LB185)
 Hill, R.V. **E121** (LB510)
 Hiller, M. **E138** (LB527)
 Himmel, A.R. **LB344** (LB344)
 Hindieh, J. **C286** (LB613)
 Hirabayashi, T. **LB274** (LB274), **LB366** (LB366), **LB374** (LB374), **LB395** (LB395), **LB483** (LB483), **LB485** (LB485)
 Hirata, Y. **LB128** (LB128)
 Hirayama, Y. **LB485** (LB485)
 Hirooka, Y. **LB342** (LB342)
 Hissen, S.L. **LB463** (LB463)
 Hitt, N.R. **LB475** (LB475)
 Hnesh, A. **C260** (LB630)
 Ho, B. **LB382** (LB382)
 Ho, D.H. **LB235** (LB235), **LB435** (LB435)
 Hobbing, K.R. **C288** (LB677)
 Hochman, S. **LB469** (LB469), **LB476** (LB476)
 Hoffman, J.R. **LB257** (LB257), **LB370** (LB370)
 Hoffman, M.W. **LB370** (LB370)
 Hoiland, R.L. **LB293** (LB293)
 Holda, J. **E113** (LB502), **E116** (LB505), **E117** (LB506)
 Holda, M.K. **E113** (LB502), **E116** (LB505), **E117** (LB506)
 Hollmann, M.W. **LB292** (LB292)
 Hollywood, M. **LB432** (LB432)
 Hollywood, M.A. **LB436** (LB436)
 Holmberg, J. **LB286** (LB286)
 Holmer, B.J. **LB333** (LB333)
 Holthaus, C. **LB349** (LB349)
 Honda, S. **LB374** (LB374)
 Hong, J. **LB161** (LB161), **LB320** (LB320), **LB328** (LB328)
 Hong, S-K **LB140** (LB140)
 Hontz, D.S. **C261** (LB631)
 Hoo, R.L. **D73** (LB576)
 Hook, S. **LB351** (LB351)
 Hoppensteadt, D. **C276** (LB603), **D67** (LB568)
 Hopper, M.K. **LB226** (LB226)
 Horiki, N. **D72** (LB555)
 Horn, E. **LB125** (LB125)
 Horsthemke, M. **LB147** (LB147)
 Hoskinson, H. **LB399** (LB399)
 Hosokawa, Y. **LB255** (LB255), **LB258** (LB258)
 Hossain, M. **LB9** (LB9)
 Hou, W. **D83** (LB586)
 Hovde, M.J. **LB196** (LB196)
 Howe, C.A. **LB293** (LB293)
 Howlett, A.C. **LB228** (LB228)
 Hoxha, B. **LB312** (LB312), **LB318** (LB318)
 Hozumi, K. **LB348** (LB348)
 Hristakos, N. **LB496** (LB496)
 Hsiao, T-F **LB107** (LB107)
 Hu, K. **LB202** (LB202)
 Hua, F. **E152** (LB541)
 Huang, C-F **LB139** (LB139)
 Huang, C-H **E134** (LB523)
 Huang, C-Y **LB417** (LB417)
 Huang, J. **LB491** (LB491)
 Huang, Y. **C274** (LB601), **LB28** (LB28), **LB29** (LB29), **LB33** (LB33), **LB34** (LB34)
 Huda, N. **LB359** (LB359)
 Huggins, R.A. **LB255** (LB255), **LB258** (LB258)
 Hughes, T. **C268** (LB638), **C269** (LB639)
 Huh, J-E **LB134** (LB134)
 Hui, X. **LB389** (LB389)
 Hull, B.E. **LB17** (LB17)
 Hundt, P. **E142** (LB531)
 Hung, B.Y. **LB445** (LB445)
 Hung, C-C **C286** (LB675)
 Hunstiger, M. **LB231** (LB231)
 Huo, M. **E148** (LB537)
 Huo, Y. **LB240** (LB240), **LB241** (LB241), **LB284** (LB284), **LB474** (LB474)
 Hureau, T. **LB340** (LB340)
 Husbands, S. **C281** (LB608)
 Hussain, S.N. **LB494** (LB494)
 Hussien, R. **LB68** (LB68)
 Hwang, C-L **LB333** (LB333)
 Hwang, H. **C292** (LB681)
 Hwang, J.S. **C292** (LB681)
 Hwang, K.T. **LB369** (LB369), **LB423** (LB423)
 Hwang, M-H **LB333** (LB333)
 Hwang, S-H **LB154** (LB154)
 Hybarger, A.C. **LB475** (LB475)
 Hydock, D.S. **LB351** (LB351)
 Hyldahl, R.D. **LB493** (LB493)

I

- Ibarra-Reynoso, L.D.R. **LB113** (LB113)
 Ibrahim, A. **LB63** (LB63), **LB168** (LB168), **LB171** (LB171), **LB173** (LB173), **LB174** (LB174)
 Ibrahim, T. **C264** (LB634)
 Ichimura, W.M. **LB235** (LB235)
 Iesaki, T. **LB306** (LB306)
 Iglesias, A. **LB68** (LB68)
 Igwo-Ezikpe, M.N. **LB162** (LB162)
 Ihara, S. **LB128** (LB128)
 Ikeji, T. **LB274** (LB274), **LB366** (LB366), **LB374** (LB374), **LB395** (LB395), **LB483** (LB483), **LB485** (LB485)
 Ikwuazom, O.O. **LB162** (LB162)
 Ilarraza, R. **LB416** (LB416)
 Imai, D. **LB272** (LB272), **LB273** (LB273)
 Ioudina, M. **LB321** (LB321)
 Iqbal, A. **LB188** (LB188)
 Irigoyen, M.C. **LB326** (LB326)
 Irigoyen, M-C C. **LB259** (LB259)
 Irwin, D. **LB263** (LB263)
 Irwin, M.G. **C268** (LB595)
 Ishmael, J.E. **C281** (LB670)
 Ismail, N. **E124** (LB513)
 Isobe, W. **E151** (LB540)

Issa, O.N. **C278** (LB648)
 Ivanova, A. **LB307** (LB307)
 Iverson, T. **LB41** (LB41)
 Ives, S. **LB317** (LB317)
 Ivkov, R. **D75** (LB558)
 Iwamoto, E. **LB253** (LB253)

J

Jackobel, A.J. **LB14** (LB14),
LB15 (LB15), **LB16** (LB16)
 Jadeski, L. **E127** (LB516)
 Jaeke, A. **LB203** (LB203)
 Jagadapillai, R. **LB276**
 (LB276)
 Jaghatspanyan, E. **LB438**
 (LB438)
 Jahangir, A. **C277** (LB604)
 Jaiswal, P.K. **LB141** (LB141)
 Jajtner, A.R. **LB257** (LB257),
LB265 (LB265), **LB270**
 (LB270)
 Jaki, B.U. **C263** (LB633)
 Jaldin-Fincati, J. **LB419**
 (LB419)
 Jamaiyar, A. **LB311** (LB311),
LB332 (LB332)
 James, A.B. **C257** (LB627)
 James, M. **LB414** (LB414)
 Jang, C-G **C286** (LB656)
 Jang, G-W **LB84** (LB84)
 Jang, H-J **LB192** (LB192)
 Jang, S.Y. **LB78** (LB78)
 Jang, Y. **LB452** (LB452)
 Jani, V.P. **LB279** (LB279)
 Jankowski, C.M. **LB397**
 (LB397)
 Janssens, V. **LB143** (LB143)
 Jardine, J.F. **LB258** (LB258)
 Jayachandran, M. **LB449**
 (LB449)
 Jayanty, L.R. **LB250** (LB250)
 Jayaram, A. **LB347** (LB347)
 Jayaratne, S.K. **LB314**
 (LB314)
 Jayasinghe, S. **LB49** (LB49),
LB59 (LB59), **LB65** (LB65)
 Jefferson, L.S. **LB380** (LB380)
 Jena, B. **LB191** (LB191)
 Jenkins, A.L. **LB373** (LB373)
 Jensen, R.B. **LB211** (LB211)
 Jeon, W-Y **C295** (LB622)
 Jeon, Y. **LB8** (LB8)
 Jeong, H. **LB135** (LB135)
 Jeong, H-W **LB147** (LB147)
 Jeong, J.B. **C296** (LB623)

Jeong, Y. **D75** (LB578)
 Jeremic, N. **LB492** (LB492)
 Jerse, A.E. **D88** (LB591)
 Jeske, W. **C276** (LB603)
 Jessick, M. **LB204** (LB204)
 Jessop, J. **LB340** (LB340)
 Jewlikar, S.S. **LB43** (LB43)
 Jeyapal, S. **LB168** (LB168),
LB171 (LB171), **LB173**
 (LB173), **LB174** (LB174)
 Jiang, E.J. **LB465** (LB465)
 Jiang, M. **C293** (LB620)
 Jiang, Z. **LB346** (LB346)
 Jimenez-Gonzalez, C. **D76**
 (LB559)
 Jiménez-Zamarripa, C.A.
LB119 (LB119)
 Jimoh, A. **LB384** (LB384)
 Jin, G. **E152** (LB541)
 Jin, S.E. **C295** (LB622)
 Jitaree, B. **E111** (LB500)
 Jiyeong, K. **C289** (LB678)
 Joannis, S. **LB430** (LB430)
 Joaquin Ovalle, F.M. **LB99**
 (LB99)
 Joaquín Ovalle, F.M. **LB82**
 (LB82)
 Johannsen, M. **LB252** (LB252)
 Johnson, B.D. **LB245**
 (LB245), **LB254** (LB254),
LB299 (LB299)
 Johnson, C.N. **LB83** (LB83)
 Johnson, P.C. **LB279** (LB279)
 Johnstone, B.H. **D74** (LB577)
 Johnny, A. **LB166** (LB166)
 Joiner, M-I **LB418** (LB418)
 Jones, A.D. **LB248** (LB248),
LB249 (LB249)
 Jones, C. **LB312** (LB312),
LB318 (LB318)
 Jones, D. **C288** (LB677)
 Jones, M. **LB495** (LB495)
 Jones, R. **D72** (LB575)
 Jones, T.B. **LB312** (LB312),
LB318 (LB318)
 Jordan, E. **LB215** (LB215)
 Jordan-Pérez, B. **LB113**
 (LB113)
 Joseph, L. **LB392** (LB392)
 Joyner, M.J. **LB266** (LB266)
 Judge, J.L. **LB490** (LB490)
 Juguilon, C. **LB332** (LB332)
 Juhaszova, M. **LB288** (LB288)
 Jung, H. **LB131** (LB131),
LB423 (LB423)

Jung, T-D **LB84** (LB84), **LB85**
 (LB85), **LB86** (LB86)
 Júnior, A.M. **LB350** (LB350)
 Jurasz, P. **C271** (LB598), **C296**
 (LB685)
 Jurrissen, T. **LB327** (LB327)
 Jurrissen, T.J. **D69** (LB570)
 Jurutka, P. **LB146** (LB146)
 Jurutka, P.W. **LB98** (LB98),
LB155 (LB155)

K

Kachlik, D. **E125** (LB514),
E126 (LB515)
 Kaidonis, G. **LB409** (LB409)
 Kaiser, C. **LB200** (LB200)
 Kakall, Z.M. **LB408** (LB408)
 Kakigi, R. **LB306** (LB306),
LB488 (LB488)
 Kakwere, T.R. **C284** (LB673)
 Kameyama, K. **E148** (LB537),
E151 (LB540)
 Kandel, S.E. **C287** (LB657)
 Kandel, S.M. **LB170** (LB170)
 Kang, H.E. **LB133** (LB133)
 Kang, I-J **LB85** (LB85)
 Kang, J. **LB132** (LB132)
 Kanikkannan, L. **LB6** (LB6)
 Kantarci, K. **LB449** (LB449)
 Kapusta, D.R. **C279** (LB606)
 Karande, A.A. **LB27** (LB27)
 Karl, J.P. **LB358** (LB358)
 Karp, P.D. **LB120** (LB120),
LB121 (LB121)
 Kasten, S. **LB90** (LB90)
 Katakura, M. **LB420** (LB420)
 Katch, R.K. **LB258** (LB258)
 Kaufenberg, M. **LB351**
 (LB351)
 Kaufman, S. **LB385** (LB385)
 Kaur, A. **LB289** (LB289)
 Kaur, G. **LB239** (LB239)
 Kaur, K. **LB49** (LB49)
 Kawai, E. **LB272** (LB272)
 Kazemi, S. **C281** (LB670)
 Keene, B. **LB234** (LB234)
 Kehlbeck, J.D. **LB81** (LB81)
 Kelleher, N. **LB96** (LB96)
 Kelley, E.F. **LB299** (LB299)
 Kelly, M.R. **LB402** (LB402)
 Kelty, J.S. **C279** (LB649)
 Kemp, R. **E137** (LB526)
 Kenealey, J. **C285** (LB674),
LB74 (LB74)
 Kennedy, C. **LB203** (LB203)
 Kennedy, K.J. **LB261** (LB261)
 Keomanivong, F. **C269**
 (LB596), **LB475** (LB475)
 Kerwin, S. **LB105** (LB105)
 Kessler, E.M. **LB212** (LB212)
 Kester, J.M. **C282** (LB671)
 Kesterke, M.J. **E132** (LB521)
 Khalafi, F. **D80** (LB583)
 Khan, D. **LB182** (LB182)
 Khan, N. **LB59** (LB59)
 Khan, S. **LB146** (LB146)
 Khan, Z. **LB146** (LB146)
 Khokar, B. **C270** (LB597)
 Kidd, L.R. **C288** (LB677)
 Kiefer, L. **LB23** (LB23)
 Kievit, P. **LB398** (LB398)
 Kiffer, F. **E154** (LB543)
 Killian, T.J. **LB267** (LB267)
 Kim, B.S. **LB78** (LB78)
 Kim, B-T **LB145** (LB145)
 Kim, D-W **LB11** (LB11)
 Kim, H-K **LB333** (LB333)
 Kim, I-H **LB140** (LB140)
 Kim, J. **C295** (LB622), **LB8**
 (LB8), **LB158** (LB158),
LB161 (LB161), **LB252**
 (LB252)
 Kim, J-K **LB308** (LB308)
 Kim, K-J **LB140** (LB140)
 Kim, M.H. **LB78** (LB78)
 Kim, P. **E133** (LB522)
 Kim, S.J. **LB408** (LB408)
 Kim, S-H **C286** (LB656)
 Kim, S-J **LB145** (LB145)
 Kim, S-Y **LB85** (LB85)
 Kim, Y. **LB158** (LB158)
 Kim, Y.A. **C273** (LB662)
 Kim, Y-C **LB84** (LB84), **LB85**
 (LB85), **LB86** (LB86)
 Kim, Y-H **C286** (LB656)
 Kimball, S.R. **LB380** (LB380)
 Kim-Holzappel, D.M. **LB51**
 (LB51)
 Kimmel, A.R. **LB141** (LB141)
 Kiou, K.W. **LB475** (LB475)
 Kirby, S. **LB66** (LB66)
 Kirychuk, S. **D78** (LB561)
 Klasen, T. **LB147** (LB147)
 Klassen, J. **LB106** (LB106)
 Klee, N.S. **LB356** (LB356)
 Klestinski, K. **LB200** (LB200)
 Klimek-Piotrowska, W. **E113**
 (LB502), **E116** (LB505),
E117 (LB506)
 Klinge, C. **C288** (LB677)

- Klip, A. **LB419** (LB419)
 Klug, N.R. **LB445** (LB445)
 Klyuchnikova, M. **LB453** (LB453)
 Knape, T. **C264** (LB634)
 Knapp, C. **LB264** (LB264)
 Kniseley, A. **LB242** (LB242)
 Knowlton, M.N. **LB493** (LB493)
 Knox, A. **LB264** (LB264), **LB323** (LB323)
 Knutson, B.A. **LB14** (LB14), **LB15** (LB15), **LB16** (LB16)
 Ko, U.H. **LB243** (LB243)
 Kober, M. **LB60** (LB60)
 Kohno, M. **LB112** (LB112)
 Kohrt, W.M. **LB397** (LB397)
 Koike, K. **LB128** (LB128)
 Kokotovich, K.M. **LB191** (LB191)
 Kolz, C. **LB332** (LB332)
 Kolz, C.L. **LB311** (LB311)
 Komino, A.C.M. **LB391** (LB391)
 Kona, S.R. **LB168** (LB168), **LB171** (LB171), **LB173** (LB173), **LB174** (LB174)
 Kondo, H. **E148** (LB537), **LB274** (LB274), **LB366** (LB366), **LB374** (LB374), **LB395** (LB395), **LB483** (LB483), **LB485** (LB485)
 Konduru, K. **C280** (LB650)
 Kong, D. **E152** (LB541)
 Konyk, C.M. **LB459** (LB459)
 Kooyman, D.L. **D76** (LB579)
 Koppany, G. **LB91** (LB91)
 Korangath, P. **D75** (LB558)
 Kornev, A.P. **LB149** (LB149)
 Korolev, S. **LB6** (LB6)
 Kotha, P. **LB427** (LB427)
 Kouta, A. **C276** (LB603)
 Kowalewska, P.M. **LB282** (LB282)
 Kozan, P. **LB357** (LB357)
 Kozlova, E. **C280** (LB650)
 Kramer, L. **C259** (LB629)
 Krane, C. **LB424** (LB424)
 Krane, C.M. **LB229** (LB229)
 Krawczyk, K.K. **LB283** (LB283)
 Krawczyk, M. **LB288** (LB288)
 Kreider, R.B. **LB371** (LB371)
 Kreydiyyeh, S. **LB425** (LB425), **LB426** (LB426), **LB428** (LB428)
- Krieg, A. **LB227** (LB227)
 Krieger, J-P **LB385** (LB385)
 Krimsier, J. **E129** (LB518)
 Krishnan, J. **LB231** (LB231)
 Krummenacker, M. **LB121** (LB121)
 Kshatriya, D. **LB379** (LB379)
 Kuborn, A. **LB208** (LB208)
 Kuczarski, A. **LB238** (LB238)
 Kuczarski, A.V. **LB237** (LB237)
 Kuehn, C. **LB204** (LB204)
 Kuhn, T. **LB165** (LB165)
 Kùltz, D. **LB440** (LB440)
 Kumar, A. **LB55** (LB55)
 Kumar, N. **C290** (LB617), **D78** (LB581)
 Kumar, R. **LB195** (LB195)
 Kumarasamy, S. **LB480** (LB480)
 Kumbhare, D. **LB430** (LB430)
 Kummel, A. **E134** (LB523)
 Kunces, L. **LB256** (LB256)
 Kundu, T.K. **LB13** (LB13)
 Kuo, C. **LB353** (LB353)
 Kuo, W-W **LB417** (LB417)
 Kuppler, C. **LB346** (LB346)
 Kurade, M. **C297** (LB624)
 Kuttenger, V. **LB125** (LB125)
 Kwahara, C. **LB222** (LB222)
 Kwai, E. **LB273** (LB273)
 Kwak, H-K **LB423** (LB423)
 Kwon, I. **LB452** (LB452)
 Kwon, Y.H. **C273** (LB662)
 Kyritsi, T. **D73** (LB556)
- L**
- Lacchini, S. **LB326** (LB326)
 Laczko, R. **LB235** (LB235), **LB435** (LB435)
 Laddu, R. **D67** (LB568)
 Ladino, N. **LB211** (LB211)
 Lafave, H.C. **LB414** (LB414)
 LaFontaine, M. **D74** (LB577)
 Lahr, B.D. **LB449** (LB449)
 Lai, J. **C274** (LB601)
 Laitman, J.T. **E114** (LB503)
 Lakatta, E. **LB288** (LB288), **LB330** (LB330)
 Lakatta, E.G. **LB302** (LB302)
 Lakshman, R. **D69** (LB552)
 Laktionova, O. **LB453** (LB453)
- Laktionova, T. **LB453** (LB453)
 LaLonde, Z.M. **LB468** (LB468)
 Lam, T.C. **LB406** (LB406)
 LaMattina, J. **LB57** (LB57)
 Lambert, P. **LB10** (LB10)
 Lambert, W.C. **LB10** (LB10)
 Lampe, J.N. **C287** (LB657)
 Landi, F. **LB167** (LB167)
 Landis-Piwowar, K. **LB250** (LB250), **LB251** (LB251)
 Lane, B. **LB203** (LB203)
 Lane, J. **LB209** (LB209)
 Langhans, W. **LB385** (LB385)
 Lapierre, S.S. **LB333** (LB333)
 Larson, E. **LB349** (LB349)
 Lashley, K. **E112** (LB501)
 Lasky, J. **LB400** (LB400)
 Lastra, G. **LB277** (LB277)
 Latiff, A.A. **LB175** (LB175)
 Laudato, J.A. **LB265** (LB265), **LB270** (LB270)
 Lauf, P.K. **LB437** (LB437)
 Laughlin, B.W. **LB103** (LB103)
 Lauridsen, H. **LB456** (LB456)
 Laurie, S. S. **LB260** (LB260)
 LaVoy, E. **LB328** (LB328)
 Lawal, D. **LB213** (LB213)
 Lawrence, E.S. **LB478** (LB478)
 Lawson, W.J. **LB344** (LB344)
 Lazartigues, E. **LB324** (LB324)
 Lazo-de-la-Vega-Monroy, M.L. **LB113** (LB113)
 Le Floch-Prigent, P.P. **E146** (LB535), **E147** (LB536)
 Le Poole, C. **LB38** (LB38)
 Leacy, J.K. **LB407** (LB407)
 Leahy, P. **D73** (LB574)
 Leão, R.X. **LB454** (LB454)
 Lebedeva, E. **LB305** (LB305), **LB433** (LB433)
 Leduc, R. **C272** (LB661)
 Leduc-Gaudet, J.P. **LB481** (LB481)
 Leduc-Gaudet, J-P **LB494** (LB494)
 Lee, C-E **LB135** (LB135)
 Lee, C-M **C281** (LB651), **C286** (LB656)
 Lee, D. **LB448** (LB448)
 Lee, E.C. **LB255** (LB255), **LB256** (LB256), **LB258** (LB258), **LB378** (LB378)
- Lee, F-J S. **LB139** (LB139)
 Lee, G. **LB158** (LB158)
 Lee, H. **C263** (LB633), **LB495** (LB495)
 Lee, H.K. **LB177** (LB177)
 Lee, H.W. **LB325** (LB325)
 Lee, J. **LB8** (LB8), **LB320** (LB320), **LB328** (LB328), **LB482** (LB482)
 Lee, J.B. **LB357** (LB357)
 Lee, J.H. **LB150** (LB150)
 Lee, J.S. **LB94** (LB94)
 Lee, K. **LB211** (LB211), **LB369** (LB369), **LB495** (LB495)
 Lee, M. **LB154** (LB154)
 Lee, O-H **LB84** (LB84), **LB85** (LB85), **LB86** (LB86)
 Lee, S. **LB411** (LB411)
 Lee, S.M. **LB131** (LB131), **LB260** (LB260)
 Lee, S.Y. **LB134** (LB134)
 Lee, S-Y **C286** (LB656)
 Lee, T.H. **LB131** (LB131)
 Lee, Y. **LB133** (LB133), **LB452** (LB452)
 Lee, Y.J. **C286** (LB656)
 Leeder, J.S. **C274** (LB663)
 Leenen, F.H. **LB325** (LB325)
 Leeuwenburgh, C. **LB4** (LB4)
 Leger, K. **LB210** (LB210)
 Lein, P. **C275** (LB645)
 Lema, P.C. **LB254** (LB254)
 Lentz, H. **LB210** (LB210)
 Lenz, K.L. **D75** (LB578)
 Leonard, S. **C274** (LB644)
 Leong, M. **LB151** (LB151)
 Lesyk, G.M. **C271** (LB598), **C296** (LB685)
 Leupold, B. **D71** (LB554), **D80** (LB583)
 Levitan, I. **LB309** (LB309)
 Li, C. **D73** (LB574)
 Li, C-C **LB139** (LB139)
 Li, F. **C284** (LB654)
 Li, H. **C259** (LB629)
 Li, J. **LB106** (LB106), **LB284** (LB284)
 Li, J.M. **LB411** (LB411)
 Li, L. **LB159** (LB159), **LB383** (LB383)
 Li, W. **C294** (LB683)
 Li, X. **LB379** (LB379)
 Li, Y. **LB367** (LB367), **LB469** (LB469)

- Li, Z. **C259** (LB629), **C297** (LB686)
- Lian, D. **C274** (LB601)
- Libbey, M.E. **LB375** (LB375)
- Lietava, J. **C278** (LB605)
- Lim, J. **LB333** (LB333)
- Lim, T. **LB369** (LB369)
- Lim, X.X. **LB24** (LB24)
- Lima, C.T. **LB326** (LB326)
- Lima, F.B. **LB393** (LB393)
- Lima, M.L.B. **E130** (LB519)
- Lima, N. **LB206** (LB206)
- Lima, R. **LB326** (LB326)
- Lin, C.C. **LB194** (LB194)
- Lin, C-H **LB30** (LB30), **LB35** (LB35)
- Lin, J.L.J. **LB69** (LB69)
- Lin, N. **LB81** (LB81)
- Lin, R. **LB444** (LB444)
- Lin, S-J **LB139** (LB139)
- Lin, T. **LB31** (LB31)
- Lin, W. **LB389** (LB389)
- Lindahl, P. **LB182** (LB182)
- Lindh, M. **D74** (LB557)
- Ling, Y. **LB112** (LB112)
- Linz, D. **LB339** (LB339)
- Liou, Y-C **LB156** (LB156)
- Lising, A.M. **LB277** (LB277)
- Litvin, S.R. **LB93** (LB93)
- Liu, J. **LB304** (LB304)
- Liu, M-C **LB163** (LB163)
- Liu, S. **LB301** (LB301)
- Liu, Z. **LB389** (LB389)
- Lizarte Neto, F.S. **C275** (LB664), **E115** (LB504), **E137** (LB526), **E153** (LB542), **E155** (LB544)
- Lochhead, J. **C290** (LB617)
- Loes, A. **LB47** (LB47)
- Lois, C. **LB204** (LB204)
- Lolekha, P. **LB451** (LB451)
- Lopatina, E. **LB305** (LB305)
- López Elías, J. **C270** (LB640)
- Lopez, V. **C269** (LB596), **LB255** (LB255), **LB256** (LB256), **LB258** (LB258), **LB378** (LB378)
- Lopez-Garriga, J. **LB45** (LB45)
- López-Garriga, J. **LB25** (LB25)
- López-Meza, M.d.S. **LB450** (LB450)
- Louie, M.C. **C278** (LB667)
- Lourenço, L.P.d.C. **E155** (LB544)
- Love, R.A. **LB214** (LB214)
- Lovering, A.T. **LB260** (LB260)
- Lowe, V.J. **LB449** (LB449)
- Lozada-Contreras, M. **LB359** (LB359)
- Lu, A. **LB211** (LB211)
- Lu, C. **LB354** (LB354)
- Lu, J. **C284** (LB654)
- Lu, T. **LB357** (LB357)
- Lu, T-W **LB50** (LB50)
- Lu, Y.W. **LB239** (LB239)
- Lucas, A. **LB338** (LB338)
- Lucas, D.A. **LB155** (LB155)
- Lucena, J.D. **LB362** (LB362)
- Lucent, D. **C261** (LB631)
- Luchetta, J. **C261** (LB631)
- Luchi, W.M. **LB355** (LB355)
- Lugo-Martínez, G. **D83** (LB566), **LB119** (LB119)
- Lund, G. **LB110** (LB110), **LB113** (LB113)
- Lûthy, I.A. **E136** (LB525)
- Luttgeharm, K. **LB109** (LB109)
- Luttrell, M. **LB253** (LB253)
- Lux, J. **LB117** (LB117)
- Ly, S. **LB224** (LB224)
- Lyden, T. **E161** (LB550)
- Lykkesfeldt, J. **LB283** (LB283)
- Lyu, Y. **C291** (LB618), **C294** (LB683)

M

- Ma, K. **LB482** (LB482)
- Ma, X. **C284** (LB654)
- Ma, Y. **LB390** (LB390)
- Mabe, N.W. **C279** (LB668)
- Macarlupu, J-L **LB479** (LB479)
- Macefield, V.G. **LB463** (LB463)
- Machesky, L.M. **LB147** (LB147)
- Macias, B. R. **LB260** (LB260)
- Mackay, A.D. **LB403** (LB403), **LB439** (LB439), **LB498** (LB498)
- Mackenzie, E. **LB212** (LB212)
- MacLeod, D. **LB293** (LB293)
- Madrigal-Santillán, E.O. **LB119** (LB119)
- Maeshige, N. **LB274** (LB274), **LB366** (LB366), **LB483** (LB483)
- Magbagbeola, O.A. **C257** (LB627)
- Magness, E. **LB421** (LB421)
- Magness, S. **LB422** (LB422)
- Maguire, D.R. **C281** (LB608)
- Mahajan, R. **LB339** (LB339)
- Maharjan, C.K. **LB437** (LB437)
- Maiga, A. **C272** (LB661)
- Maiti, S. **LB178** (LB178)
- Majeed, Y. **C280** (LB669)
- Majrashi, M. **C288** (LB615)
- Majumdar, A.P. **D71** (LB572)
- Makino, A. **LB444** (LB444)
- Maklashina, E. **LB41** (LB41)
- Maldonado-Hernández, R. **LB99** (LB99)
- Malik, S. **LB467** (LB467)
- Mallick, S. **LB155** (LB155)
- Manabat, C. **C278** (LB667)
- Manandhar, S. **LB186** (LB186)
- Mankowski, R. **LB4** (LB4)
- Mann, C.R. **LB407** (LB407)
- Manoj, N. **LB43** (LB43)
- Manrique-Acevedo, C. **LB277** (LB277), **LB331** (LB331)
- Mao, Q. **C287** (LB657)
- Marban, E. **LB438** (LB438)
- Marcarlupu, J.L. **LB412** (LB412)
- Marchant, E.D. **LB439** (LB439)
- Marchelletta, R. **LB357** (LB357)
- Marcucio, R. **E140** (LB529)
- Marcus, N.J. **LB475** (LB475)
- Mardis, B.R. **LB253** (LB253)
- Marini, F. **LB167** (LB167)
- Markey, M.K. **LB437** (LB437)
- Mars, W. **D72** (LB573)
- Marsh, S. **LB210** (LB210)
- Marshall, S. **LB330** (LB330)
- Martin, K. **LB79** (LB79)
- Martinez, A. **LB39** (LB39)
- Martinez, S.A. **LB214** (LB214)
- Martinez-Lemus, L. **LB327** (LB327), **LB331** (LB331)
- Martinez-Lemus, L.A. **D69** (LB570), **LB275** (LB275), **LB277** (LB277), **LB278** (LB278)
- Martinez-Montemayor, D.M.M. **LB48** (LB48)
- Martinka, S. **C268** (LB638)
- Martins, S. **LB61** (LB61)
- Martins, V. **LB382** (LB382)
- Maruyama, N.O. **LB471** (LB471)
- Marwarha, G. **LB7** (LB7)
- Marzetti, E. **LB4** (LB4), **LB167** (LB167)
- Mashall, K. **LB399** (LB399)
- Masiak, J. **LB236** (LB236)
- Masson, G. **LB127** (LB127)
- Mata, L. **LB153** (LB153)
- Matheny, R.W. **LB130** (LB130)
- Mathew, O.P. **LB100** (LB100)
- Mathias, A. **LB295** (LB295)
- Mathur, S. **D85** (LB588), **LB195** (LB195)
- Matnishian, V. **C272** (LB599)
- Matson, E.M. **LB67** (LB67)
- Matsumoto, T. **LB274** (LB274), **LB366** (LB366), **LB374** (LB374), **LB395** (LB395), **LB483** (LB483), **LB485** (LB485), **LB487** (LB487)
- Matsumura, M.S. **LB486** (LB486), **LB493** (LB493)
- Matsuura, T. **LB342** (LB342)
- Matsuzaki, K. **LB420** (LB420)
- Matthews, J. **D72** (LB575)
- Maxwell, Z. **LB60** (LB60)
- Mayerhofer, A. **E123** (LB512)
- Mazur, M. **E113** (LB502)
- McCabe, C. **LB280** (LB280)
- McClatchey, P.M. **LB281** (LB281)
- McClung, D. **LB343** (LB343)
- McCullough, S. **LB218** (LB218)
- McCormick, L. **LB491** (LB491)
- McCurdy, C. **LB396** (LB396)
- McCurdy, C.E. **LB398** (LB398)
- McDermott, B. **LB256** (LB256)
- McDonough, J.H. **LB67** (LB67)
- McElroy, T. **C288** (LB615)
- McGeough, M.D. **LB357** (LB357)

- McGlory, C. **LB430** (LB430)
 McGuinn, W.D. **C258** (LB628)
 McGuinness, O.P. **LB281** (LB281)
 McHale, N. **LB432** (LB432)
 McKay, B.R. **LB430** (LB430)
 McKay, L.E. **LB336** (LB336)
 McKinnon, M.L. **LB469** (LB469)
 McMillan, A. **LB145** (LB145)
 McNabney, S.M. **LB375** (LB375)
 McNally, M. **LB203** (LB203)
 McPhail, K.L. **C281** (LB670)
 McWatt, S. **E127** (LB516)
 Mecica, N. **E133** (LB522)
 Medina, U. **D68** (LB569), **D76** (LB559)
 Mefford, A. **LB448** (LB448)
 Mehanna, A. **C262** (LB632)
 Mehanna, A.S. **C266** (LB636)
 Meitzen, J. **LB225** (LB225)
 Melford, C. **LB256** (LB256)
 Melipillan Cardenas, C.A. **LB461** (LB461)
 Melnyk, M. **LB213** (LB213)
 Mendez, N. **E134** (LB523)
 Mendoza Sánchez, P. **LB102** (LB102)
 Meng, Y. **LB149** (LB149)
 Mera Jimenez, E. **LB102** (LB102)
 Mercado, B. **LB123** (LB123)
 Mergens, S.R. **LB214** (LB214)
 Meyer, M. **LB212** (LB212)
 Meza-Barajas, O. **LB65** (LB65)
 Michalopoulos, G. **D72** (LB573)
 Michenkova, M. **LB443** (LB443)
 Michi, A. **LB415** (LB415)
 Middleton, R.C. **LB233** (LB233)
 Mignemi, N. **LB281** (LB281)
 Miguez, K. **LB494** (LB494)
 Mikes, M.L. **LB179** (LB179)
 Miko, M. **E125** (LB514)
 Miller, A.D. **LB266** (LB266)
 Miller, J.D. **LB303** (LB303)
 Miller, V.M. **LB449** (LB449)
 Mills, C.L. **LB94** (LB94)
 Mills, D. **LB359** (LB359)
 Milton, S. **LB100** (LB100)
 Milz, S. **E123** (LB512)
 Minervini, V. **C280** (LB607)
 Mingolelli, G. **LB213** (LB213)
 Miranda-Ruvalcaba, R. **LB102** (LB102)
 Mirihana Arachchilage, G. **LB18** (LB18)
 Mischenko, A. **LB433** (LB433)
 Mishra, J. **LB161** (LB161)
 Mitchell, N.C. **LB471** (LB471)
 Mitchell, S. **LB288** (LB288)
 Miyamoto, M. **LB420** (LB420)
 Miyamoto, T. **D79** (LB562)
 Miyata, Y. **LB222** (LB222)
 Mizrachi, D. **LB37** (LB37)
 Mjedib, M. **C260** (LB630)
 Modi, S. **C267** (LB637)
 Moen, J. **LB288** (LB288), **LB302** (LB302)
 Mohamad, T.S. **LB144** (LB144)
 Mohapatra, S. **LB43** (LB43)
 Mohildien, A.M. **C299** (LB626)
 Molina, C.A.F. **C275** (LB664)
 Molitoris, B.A. **LB447** (LB447)
 Molteni, A. **D71** (LB554), **D80** (LB583)
 Montes, K. **LB215** (LB215)
 Moon, S. **LB243** (LB243)
 Moore, D.J. **LB308** (LB308)
 Moore, K. **LB341** (LB341)
 Moore, T. **C288** (LB615)
 Moraes, A.R. **C294** (LB621)
 Morais, J.A. **LB441** (LB441)
 Morais, K. **LB189** (LB189)
 Morais, K.L.P. **LB188** (LB188)
 Morales-Lozada, Y. **LB52** (LB52), **LB181** (LB181)
 Moreau, K.L. **LB397** (LB397)
 Moreira, A.D.S. **C298** (LB625)
 Moreira, K.M. **E131** (LB520)
 Morgan, E. **C281** (LB651)
 Morgan, K.S. **LB67** (LB67)
 Morgan, R.S. **LB484** (LB484)
 Morgem, M.O. **C287** (LB676)
 Morishima, T. **LB368** (LB368)
 Morita, E. **LB272** (LB272), **LB273** (LB273)
 Morrell, C. **LB288** (LB288)
 Morris, A. **C274** (LB644)
 Morris, J. **LB96** (LB96)
 Morris, S. **LB209** (LB209)
 Mota, C.M.D. **LB470** (LB470)
 Moulana, N. **LB276** (LB276)
 Mowery, C. **LB166** (LB166), **LB169** (LB169)
 Mozdziaik, P. **LB19** (LB19)
 Mu, D. **LB434** (LB434)
 Muchlinski, M.N. **E143** (LB532)
 Mudar, I. **D80** (LB583)
 Mughal, U.R. **LB10** (LB10)
 Mui, V. **LB496** (LB496)
 Mukhtar, F. **LB213** (LB213)
 Mulder, C.G. **E141** (LB530)
 Müller-Ribeiro, F.C. **LB268** (LB268)
 Mulley, A. **LB215** (LB215)
 Mullick, A. **LB353** (LB353)
 Munk, D.J. **LB439** (LB439)
 Munoz, C. **LB256** (LB256)
 Muñoz-Santiago, R. **LB181** (LB181)
 Murakami, S. **E148** (LB537), **E151** (LB540)
 Murata, L-A M. **LB235** (LB235)
 Murphy, J. **LB441** (LB441)
 Muscant, R. **LB202** (LB202)
 Muwonge, A.N. **LB97** (LB97)
 Muyot, A. **LB321** (LB321)
 Myung, J.K. **LB132** (LB132)
- N**
- Nadar, R. **C288** (LB615)
 Nademi, S. **LB354** (LB354)
 Nagelmann, N. **LB147** (LB147)
 Naik, A. **LB191** (LB191)
 Naito, H. **LB46** (LB46), **LB488** (LB488)
 Naito, K. **LB395** (LB395)
 Nakajima, E. **LB70** (LB70)
 Nakane, M. **LB395** (LB395)
 Nakanishi, R. **LB483** (LB483)
 Nam, E. **E159** (LB548)
 Nanavati, A. **LB288** (LB288), **LB302** (LB302), **LB330** (LB330)
 Nangia-Makker, P. **D71** (LB572)
 Nar, R. **LB9** (LB9)
 Narayanan, N. **C288** (LB615)
 Nardi, J. **LB216** (LB216)
 Nascimento, A. **D78** (LB561)
 Nascimento-Carvalho, B. **LB259** (LB259)
 Nassar, N. **LB206** (LB206)
 Nassra, R. **C264** (LB634)
 Nassrallah, Z. **E121** (LB510)
 Nathaniel, S. **LB237** (LB237)
 Nathanielsz, P.W. **LB19** (LB19)
 Natsume, T. **LB46** (LB46)
 Nauli, S.M. **C299** (LB626)
 Navarro, E.D. **LB201** (LB201)
 Ndacayisaba, L. **C259** (LB629)
 Nederlof, R. **LB292** (LB292)
 Nederveen, J.P. **LB430** (LB430)
 Nedoboy, P.E. **LB408** (LB408)
 Nehra, G. **C290** (LB617)
 Neilsen, P.O. **LB180** (LB180)
 Neish, A. **D72** (LB575)
 Nelson, M. **LB472** (LB472)
 Nelson, M.D. **LB271** (LB271)
 Nguyen, C. **LB153** (LB153)
 Nguyen, H. **LB59** (LB59)
 Nguyen, J. **C290** (LB679)
 Nguyen, T. **LB202** (LB202)
 Nicodemou, A. **E160** (LB549), **E162** (LB551)
 Nicolás Vázquez, M.I. **LB102** (LB102)
 Niimi, Y. **LB395** (LB395)
 Nishihama, K. **D72** (LB555), **LB348** (LB348)
 Nishimura, M.I. **LB38** (LB38)
 Nitz, N. **D90** (LB593)
 Niu, C. **LB202** (LB202)
 Nobre, A.C.d.C. **D90** (LB593)
 Noel, J. **LB73** (LB73)
 Noureddine, M. **LB426** (LB426)
 Noushmehr, H. **E153** (LB542)
 Novais, P.C. **C275** (LB664), **E115** (LB504)
 Novakova, Z.V. **E160** (LB549), **E162** (LB551)
 Novotny, S. **LB347** (LB347)
 Nunez, S. **LB427** (LB427)
 Nunn, M.E. **D79** (LB562)
 Nuzhny, V. **LB305** (LB305)
 Nuzzo, A. **C286** (LB613)
 Nyiri, K. **LB91** (LB91)
 Nysten, C. **LB414** (LB414)
 Nysten, C.E. **LB407** (LB407)
 Nysten, H. **LB407** (LB407)
 Nysten, H.C. **LB414** (LB414)

O

- Oberg, K. **E139** (LB528)
 Oberg, K.C. **E141** (LB530)
 Obih, J-C A. **D80** (LB563)
 Obih, P.O. **D80** (LB563)
 Oblad, R. **C285** (LB674)
 O'Brien, A. **D73** (LB556)
 O'Brien, F. **LB464** (LB464),
LB484 (LB484)
 O'Brien, G. **LB317** (LB317)
 O'Brien, P. **LB5** (LB5)
 O'Brien, R. **LB363** (LB363)
 O'Brien, T.J. **LB408** (LB408)
 O'Bryon, A. **LB203** (LB203)
 Ochi, E. **LB368** (LB368)
 O'Connor, A.T. **C284** (LB611)
 Oddou, M. **LB122** (LB122)
 Odeyemi, O.A. **C257** (LB627)
 Odintsov, I. **LB316** (LB316)
 O'Donnell, M.E. **LB445**
 (LB445)
 Ofoma, O.N. **LB162** (LB162)
 Ogidan, F.A. **LB271** (LB271)
 Ogunlade, B. **LB324** (LB324)
 Ogunleye, A.O. **D79** (LB562)
 Oh, Y-M **LB140** (LB140)
 O'Halloran, K.D. **LB407**
 (LB407)
 Okamoto, C. **LB148** (LB148)
 Okayasu, K. **LB395** (LB395)
 Okazaki, K. **LB272** (LB272),
LB273 (LB273)
 Okorienta, S.M. **D77** (LB580)
 Okuda, S. **LB112** (LB112)
 Ola-Davies, O. **LB298**
 (LB298)
 Olaleye, S.B. **LB361** (LB361)
 Olesen, N.D. **LB294** (LB294)
 Olfert, I.M. **LB399** (LB399)
 Oliveira da Silva, F.R. **LB362**
 (LB362)
 Oliveira, L. **LB257** (LB257)
 Oliver, S.R. **LB231** (LB231)
 Ollendorff, V. **LB381** (LB381)
 Olsen, Z.E. **LB486** (LB486)
 Olusegun, A.J. **LB384**
 (LB384)
 O'Malley, D. **LB363** (LB363)
 Omóbòwálé, T. **LB298**
 (LB298)
 Omobowale, T.O. **C287**
 (LB676)
 Omstead, K.M. **E143** (LB532)
 Ömür, A.D. **LB75** (LB75)
 Ondrechen, M.J. **LB94** (LB94)
 Ondrus, P.C. **LB414** (LB414)
 Ono, K. **LB274** (LB274),
LB366 (LB366), **LB374**
 (LB374), **LB395** (LB395),
LB483 (LB483), **LB485**
 (LB485)
 Opanasopit, P. **LB446** (LB446)
 Oquendo, Y. **C293** (LB682)
 Ordovas, J. **LB114** (LB114)
 Orr, A. **D72** (LB573)
 Orsini, D.A. **LB93** (LB93)
 Ortega-Schwartz, K.E. **LB260**
 (LB260)
 Ortiz-Rosario, M.C. **LB52**
 (LB52)
 Osteicoechea, D.C. **C280**
 (LB607)
 Ostfeld, I. **LB370** (LB370)
 Ota, A. **LB272** (LB272),
LB273 (LB273)
 Otero-Ojeda, G.A. **LB450**
 (LB450)
 Otterpohl, K.L. **LB447**
 (LB447)
 Otton, J. **E145** (LB534)
 Ouang, H. **LB212** (LB212)
 Oubrahim, H. **LB151** (LB151)
 Overduin, M. **LB106** (LB106)
 Owenier, C. **LB296** (LB296)
 Owino, S. **C293** (LB620)
 Oyagbemi, A. **LB298** (LB298)
 Oyagbemi, A.A. **C287**
 (LB676)
 Özdemir, B. **LB118** (LB118)
 Ozemek, C. **LB397** (LB397)
- P**
- Pacheco, A. **LB215** (LB215),
LB359 (LB359)
 Pacheco, S. **LB36** (LB36)
 Packer, A.M. **LB93** (LB93)
 Padilla, J. **D69** (LB570),
LB275 (LB275), **LB278**
 (LB278), **LB327** (LB327),
LB331 (LB331)
 Paley, S. **LB120** (LB120)
 Palmer, A. **LB129** (LB129),
LB337 (LB337)
 Palmer, M.S. **LB262** (LB262)
 Palta, M. **LB313** (LB313)
 Pan, Y. **LB477** (LB477)
 Panama, B. **LB117** (LB117)
 Panchapakesan, S.S. **LB18**
 (LB18)
 Pandit, A. **LB212** (LB212)
 Panthi, A. **LB126** (LB126)
 Paradis, P. **D69** (LB570),
LB327 (LB327)
 Parasuram, R. **LB94** (LB94)
 Parihar, H. **C267** (LB637)
 Parise, G. **LB430** (LB430)
 Parizotto, N.A. **E158** (LB547)
 Park, C-Y **LB11** (LB11)
 Park, E. **C295** (LB622)
 Park, M. **LB198** (LB198)
 Park, S. **LB132** (LB132),
LB271 (LB271)
 Park, S.Y. **LB423** (LB423)
 Park, Y. **LB131** (LB131),
LB320 (LB320), **LB328**
 (LB328)
 Park, Y-M **LB397** (LB397)
 Parker, C.G. **LB462** (LB462)
 Parks, L. **LB225** (LB225)
 Parmar, N. **LB152** (LB152)
 Parmar, S.S. **C259** (LB629)
 Parmigiani, A. **LB150** (LB150)
 Parra-Barrera, A. **D83** (LB566)
 Parreiras-e-Silva, L.T. **C270**
 (LB659)
 Parshad, R. **LB195** (LB195)
 Parthasarathy, M. **LB212**
 (LB212)
 Pasatetskaya, N. **LB305**
 (LB305)
 Patel, A. **LB295** (LB295),
LB496 (LB496)
 Patel, H. **LB68** (LB68)
 Patel, M. **C297** (LB624)
 Patel, S.H. **LB247** (LB247)
 Pather, N. **E145** (LB534)
 Patrician, A. **LB293** (LB293)
 Pauli, G.F. **C263** (LB633)
 Paull, E. **LB269** (LB269)
 Pavlek, L. **C273** (LB643)
 Pearce, S.C. **LB358** (LB358)
 Pedersen, M. **LB456** (LB456)
 Peeters, K. **LB143** (LB143)
 Pei, F. **LB42** (LB42)
 Peltonen, J.P. **LB407** (LB407)
 Peng, C-W **C286** (LB675)
 Peng, J-B **LB443** (LB443)
 Peng, Y. **C285** (LB655)
 Pennington, M.R. **LB93**
 (LB93)
 Peoples, R. **LB204** (LB204)
 Pepin, J. **LB203** (LB203)
 Perera, S.M. **LB64** (LB64)
 Perez, J. **LB210** (LB210)
 Perez, O. **C270** (LB597)
 Pérez-Oquendo, M. **LB52**
 (LB52)
 Perez-Oquendo, M.G. **LB201**
 (LB201)
 Peria, F.M. **E153** (LB542),
E155 (LB544)
 Periasamy, M. **LB388** (LB388)
 Perisic, L. **LB283** (LB283)
 Persichilli, S. **LB167** (LB167)
 Persinger, A. **LB495** (LB495)
 Person, A. **E156** (LB545)
 Pescador Tapia, M.A. **LB113**
 (LB113)
 Pescador-Tapia, M.A. **LB110**
 (LB110)
 Peters, K. **LB206** (LB206)
 Peters, R. **LB377** (LB377)
 Petersen, J.W. **LB333** (LB333)
 Peterson, A. **LB207** (LB207)
 Petitti, C.S. **LB260** (LB260)
 Petrashkevskaya, N. **LB288**
 (LB288)
 Petridis, L. **LB44** (LB44)
 Pezzutti, D. **LB229** (LB229)
 Phelps, C.A. **LB434** (LB434)
 Philips, O. **LB101** (LB101)
 Phillips, C. **LB447** (LB447)
 Phillips, C.L. **D75** (LB578)
 Phillips, S.A. **LB309** (LB309)
 Phumyoo, T. **E111** (LB500)
 Piaggione, J.M. **LB235**
 (LB235)
 Picca, A. **LB4** (LB4), **LB167**
 (LB167)
 Piercy, R. **LB484** (LB484)
 Pierdant-Perez, M. **D68**
 (LB569)
 Pillay, A.E. **LB10** (LB10)
 Pilligua-Lucas, M. **D88**
 (LB591)
 Pilote, L. **LB289** (LB289)
 Pilowsky, P.M. **LB408**
 (LB408)
 Pimenta, H.B. **E130** (LB519),
E131 (LB520), **LB362**
 (LB362)
 Pimentel, C.F. **D90** (LB593)
 Pinto, W.P. **LB350** (LB350)
 Pipingas, A. **LB377** (LB377)
 Pira, C. **E139** (LB528)
 Pira, C.U. **E141** (LB530)
 Pirman, N.L. **LB22** (LB22)
 Pitzer, C. **LB399** (LB399)

Piyachaturawat, P. **C291** (LB680)
 Pizzo, M. **C290** (LB617)
 Pluznick, J. **LB291** (LB291), **LB352** (LB352)
 Poisner, A. **D71** (LB554), **D80** (LB583)
 Poitras, E. **C296** (LB685)
 Poll, B. **LB352** (LB352)
 Polson, J.W. **LB314** (LB314)
 Pondugula, S. **C288** (LB615)
 Ponnareddy, R. **D80** (LB583)
 Ponnath, D.S. **C297** (LB624)
 Pope, B. **C285** (LB612)
 Poppinga, F.A. **LB31** (LB31)
 Porta, M. **LB496** (LB496)
 Pothana, S. **LB168** (LB168), **LB171** (LB171), **LB173** (LB173), **LB174** (LB174)
 Poudel, A. **LB159** (LB159), **LB383** (LB383)
 Pour, M. **D71** (LB554), **D80** (LB583)
 Powell, F.L. **LB479** (LB479)
 Powell, J. **LB312** (LB312), **LB318** (LB318)
 Powell, K.L. **LB408** (LB408)
 Prasad, B. **C282** (LB652)
 Preciado-Puga, M.D.C. **LB113** (LB113)
 Primiano, A. **LB167** (LB167)
 Proctor, D.N. **LB308** (LB308)
 Proud, D. **LB415** (LB415)
 Provost, M. **LB476** (LB476)
 Prudhomme, I. **D88** (LB591)
 Pugliesi, R. **E153** (LB542)
 Pulakat, L. **LB142** (LB142)
 Puls, A. **LB210** (LB210)
 Puppa, M. **LB489** (LB489), **LB495** (LB495)
 Purdy, G. **LB414** (LB414)
 Purkiss, J.X. **E124** (LB513)

Q

Quezada, H. **LB143** (LB143)
 Quinlivan, E. **LB346** (LB346)
 Quinn, A.M. **C268** (LB638), **C269** (LB639)
 Quintero, J. **D89** (LB592)
 Quintin, S. **LB452** (LB452)

R

Ra, M-J **LB85** (LB85)
 Rabalais, J. **LB357** (LB357)
 Rabi, H. **LB49** (LB49)
 Racicot, K. **LB358** (LB358)
 Radic, Z. **LB61** (LB61)
 Radle, M. **LB57** (LB57)
 Rafelski, S.M. **LB185** (LB185)
 Raghuvamsi, P.V. **LB24** (LB24)
 Rahyab, M. **C286** (LB613)
 Rai, S. **C288** (LB677), **LB212** (LB212)
 Rajalingam, S. **C297** (LB624)
 Rakibova, Y. **LB2** (LB2)
 Raman, P. **LB295** (LB295)
 Ramanathan, R. **LB166** (LB166), **LB169** (LB169)
 Ramesh, R. **LB24** (LB24)
 Ramesh, S. **C288** (LB615)
 Ramirez, C. **LB288** (LB288), **LB330** (LB330)
 Ramirez, F. **LB327** (LB327)
 Ramirez-Lugo, J. **LB201** (LB201)
 Ramirez-Paz, J. **LB82** (LB82), **LB99** (LB99)
 Ramirez-Perez, F.I. **D69** (LB570), **LB277** (LB277)
 Ramirez-Vick, J.E. **LB17** (LB17)
 Ramos, D. **LB223** (LB223)
 Ramos, M. **LB193** (LB193)
 Ramos, M.R.F. **E114** (LB503)
 Ramos-Godínez, M.D.P. **D83** (LB566)
 Ramsower, H. **LB83** (LB83)
 Randall, Z. **D71** (LB554)
 Ranganna, K. **LB100** (LB100)
 Rangnekar, V. **C276** (LB603)
 Rascon, L. **D89** (LB592)
 Rascon, R. **D89** (LB592)
 Rasmussen, C. **LB371** (LB371)
 Ravinder, A. **LB36** (LB36)
 Rawat, A. **LB178** (LB178)
 Ray, P. **LB239** (LB239)
 Raybould, H. **LB359** (LB359)
 Reabroi, S. **C291** (LB680)
 Reddy, L.V. **E132** (LB521)
 Reddy, R. **E124** (LB513)
 Reed, K.M. **LB375** (LB375)
 Reedy, A. **D72** (LB575)
 Rees, J. **LB414** (LB414)
 Regan, D. **C283** (LB672)

Rehman, Z. **C285** (LB612)
 Reinhardt, K. **LB208** (LB208)
 Reis, F.G.D. **LB388** (LB388)
 Reisz, J.A. **LB172** (LB172)
 Renna, L. **LB190** (LB190)
 Repka, M. **E126** (LB515)
 Rexiati, M. **LB19** (LB19)
 Reyes Oliveras, A. **LB25** (LB25)
 Reyes, A. **LB371** (LB371)
 Reyes-Gordillo, K. **D69** (LB552)
 Reynaud, O. **LB481** (LB481)
 Reynolds, T. **LB317** (LB317)
 Rezende, R.A. **LB350** (LB350)
 Rezk-Hanna, M. **LB300** (LB300)
 Riazati, N. **LB472** (LB472)
 Ricci, A. **LB186** (LB186)
 Rice, S.A. **LB172** (LB172), **LB179** (LB179)
 Richardson, J. **LB220** (LB220)
 Richardson, R. **LB340** (LB340)
 Richbourg, H.A. **E140** (LB529)
 Richert, L. **C277** (LB647)
 Rickards, C. **LB244** (LB244)
 Rida, R. **LB428** (LB428)
 Ridler, J. **LB207** (LB207)
 Rieger, M. **LB293** (LB293)
 Rieusset, J. **LB381** (LB381)
 Ringlander, J. **D74** (LB557)
 Riopel, M. **LB382** (LB382)
 Ríos, O. **E136** (LB525)
 Rippe, C. **LB283** (LB283)
 Risbud, K.S. **LB97** (LB97)
 Riscuta, G. **LB164** (LB164)
 Rivera, R. **LB223** (LB223)
 Rizkallah, A.S. **LB93** (LB93)
 Rizvi, F. **C277** (LB604)
 Roa-Peña, L. **D83** (LB586)
 Robbins, W. **LB300** (LB300)
 Roberts, A. **C265** (LB635)
 Roberts, A.M. **LB276** (LB276)
 Roberts, J.L. **LB421** (LB421)
 Robles Zepeda, R.E. **C270** (LB640)
 Rocha, K.C. **LB386** (LB386)
 Rocio, A.H. **C271** (LB660)
 Rodionova, E. **LB453** (LB453)
 Rodriguez-Aguilar, M. **D68** (LB569)
 Rodrigues, A.C. **LB386** (LB386), **LB394** (LB394)
 Rodrigues, A.R. **E153** (LB542), **E155** (LB544)
 Rodriguez, C. **E118** (LB507)
 Rodriguez, J.C. **C270** (LB640)
 Rodriguez-Aguilar, M. **D76** (LB559)
 Rodriguez-Flores, C.D. **LB223** (LB223)
 Rodriguez-Rios, D. **LB110** (LB110)
 Rodríguez-Ríos, D. **LB113** (LB113)
 Rogawski, M. **C275** (LB645)
 Rogers, J. **LB231** (LB231)
 Rogers, L. **C273** (LB643)
 Rogers, L.J. **C295** (LB684)
 Rogers, R.G. **LB438** (LB438)
 Rohloff, E. **LB203** (LB203)
 Rohrer, J. **LB61** (LB61)
 Rollings, J. **LB37** (LB37)
 Romashkova, E. **LB207** (LB207)
 Romero, C.A. **D78** (LB581)
 Romero, S. **LB244** (LB244)
 Rondine, M. **E158** (LB547)
 Rony, R.M.I. K. **LB17** (LB17)
 Roos, B.B. **LB303** (LB303)
 Roos, C.M. **LB303** (LB303)
 Rosado-Franco, J.J. **D81** (LB584)
 Rosario-Alomar, M.F. **LB45** (LB45)
 Rose, B.J. **D76** (LB579)
 Rosenberry, R. **LB271** (LB271)
 Ross, G. **C277** (LB604)
 Rossi, G. **C286** (LB613)
 Rossoni, L.V. **LB334** (LB334)
 Rouse, R. **C297** (LB686)
 Rout, M.P. **LB58** (LB58)
 Roux, B. **LB149** (LB149)
 Rozowsky, J. **LB346** (LB346)
 Rrahmani, F. **LB203** (LB203)
 Ruiz Jimenez, C. **LB193** (LB193)
 Ruiz-Jiménez, C. **D81** (LB564), **D81** (LB584)
 Ruiz-Noa, Y. **LB113** (LB113)
 Rulko, T. **LB202** (LB202)
 Rullán-Lind, C. **LB52** (LB52)
 Rumschlag, M. **LB349** (LB349)
 Rutherford, M.M. **LB262** (LB262)

- Rutishauser, C. **LB302** (LB302)
- Ryan, M. **LB209** (LB209)
- Ryan, M.J. **LB343** (LB343)
- Ryu, J. **LB369** (LB369)
- S**
- Sabedot, T.S. **E153** (LB542)
- Sabir, M.S. **LB155** (LB155)
- Sacchettini, J. **LB182** (LB182)
- Sackett, J.R. **LB245** (LB245)
- Saeeng, R. **C291** (LB680)
- Sahoo, D. **LB208** (LB208)
- Sahu, R.P. **C260** (LB630), **C276** (LB646)
- Said, H.M. **LB360** (LB360)
- Saikumar, J. **E150** (LB539)
- Saito, S. **LB400** (LB400)
- Sajomsang, W. **LB446** (LB446)
- Sakamuri, A. **LB168** (LB168), **LB171** (LB171), **LB173** (LB173), **LB174** (LB174)
- Sakarya, Y. **LB333** (LB333)
- Sakita, M. **E148** (LB537), **E151** (LB540)
- Salem, G.A. **C260** (LB630)
- Salim, H. **E135** (LB524)
- Salloum, L. **LB321** (LB321)
- Samad, H. **LB202** (LB202)
- Samaniego, B. **D89** (LB592)
- Samman, W. **C275** (LB602)
- Sample, V. **C277** (LB666)
- Samuel, S.M. **C280** (LB669)
- Sanches, I.C. **LB259** (LB259)
- Sanchez, K. **LB20** (LB20)
- Sanchez, L. **LB438** (LB438)
- Sanchez, M. **LB71** (LB71)
- Sanders, P. **LB339** (LB339)
- Sandoval, E. **LB215** (LB215)
- Sanjana, F. **LB264** (LB264), **LB457** (LB457)
- Sankarankutty, A.K. **E137** (LB526)
- Santana, L.F. **LB445** (LB445)
- Santiago Garcia, J. **LB66** (LB66)
- Santoro, A. **LB293** (LB293)
- Santos, A. **LB259** (LB259)
- Santos, N.C. **LB259** (LB259)
- Santosa, S. **LB441** (LB441)
- Saperova, E. **LB307** (LB307)
- Sargent, C. **LB204** (LB204)
- Sarkar, S. **D71** (LB572)
- Sarna, L. **LB300** (LB300)
- Sato, M. **LB222** (LB222)
- Sattar, A.A. **LB10** (LB10)
- Sawatwong, W. **E111** (LB500)
- Sawyer, N. **E159** (LB548)
- Saxena, A. **E138** (LB527)
- Scangos, K. **LB448** (LB448)
- Scapini, K.B. **LB259** (LB259)
- Schalt, A. **LB252** (LB252)
- Schenk, S. **LB382** (LB382)
- Schiavoni, V.S. **E155** (LB544)
- Schiffirin, E. **LB327** (LB327)
- Schiffirin, E.L. **D69** (LB570)
- Schlader, Z.J. **LB245** (LB245), **LB254** (LB254)
- Schlosser, K. **LB289** (LB289)
- Schmidt, M.L. **C288** (LB677)
- Schmitt Lavin, E.F. **LB205** (LB205)
- Schmitt, S. **LB203** (LB203)
- Schmitz, C. **E123** (LB512)
- Schneider, D.R.J. **LB48** (LB48)
- Schofield, J.A. **LB23** (LB23)
- Scholey, A. **LB377** (LB377)
- Schones, D.E. **LB12** (LB12)
- Schrader, J. **LB296** (LB296)
- Schraufnagel, L. **LB204** (LB204)
- Schroeder, T. **LB263** (LB263)
- Schubert, M. **LB457** (LB457)
- Schuld, M. **LB210** (LB210)
- Schultz, H.D. **LB475** (LB475)
- Schulz, R. **LB416** (LB416)
- Schwarz, J. **LB125** (LB125)
- Schwarz, J.J. **LB239** (LB239)
- Sciani, J.M. **LB188** (LB188), **LB189** (LB189)
- Seal, A. **LB256** (LB256)
- Sebzda, K. **LB238** (LB238)
- Secher, N.H. **LB294** (LB294)
- Sedova, K. **LB315** (LB315)
- Seeley, L. **LB212** (LB212)
- Seenu, V. **D85** (LB588)
- Seewaldt, V. **LB12** (LB12)
- Sehgal, A. **E149** (LB538)
- Selvam, C. **LB100** (LB100)
- Semke, L. **LB466** (LB466)
- Semra Aygün, S.K. **LB437** (LB437)
- Senapati, P. **LB12** (LB12)
- Senthilkumar, U. **C292** (LB619)
- Seo, C-S **C295** (LB622)
- Seo, Y-K **LB176** (LB176)
- Sepe, J.J. **LB336** (LB336)
- Serafine, K. **C282** (LB609)
- Sergeant, G. **LB432** (LB432)
- Sergeant, G.P. **LB436** (LB436)
- Serio, T.R. **LB42** (LB42)
- Serrador, J. **LB264** (LB264), **LB323** (LB323), **LB457** (LB457)
- Serrador, J.M. **LB304** (LB304)
- Serrill, J.D. **C281** (LB670)
- Servent, D. **LB188** (LB188)
- Shaban Abdelaziz Abdelrahman, A. **C276** (LB646)
- Shaban, A. **C260** (LB630)
- Shah, N. **E139** (LB528)
- Shah, R. **D69** (LB552)
- Shah, R.M. **C266** (LB636)
- Shahani, P. **LB98** (LB98)
- Shahlaie, K. **LB448** (LB448)
- Shamoon, U. **E159** (LB548)
- Shan, Z.J. **LB465** (LB465), **LB468** (LB468)
- Shannon, D. **LB206** (LB206)
- Sharafi, M. **LB373** (LB373)
- Sharma, A. **LB195** (LB195)
- Sharma, P. **LB41** (LB41)
- Sharma, S. **LB489** (LB489)
- Sharma, V. **E138** (LB527)
- Shearer, T.R. **LB70** (LB70)
- Sheikh, S. **LB210** (LB210)
- Shekh, V.E. **LB285** (LB285), **LB460** (LB460)
- Shen, B. **LB3** (LB3)
- Shen, S. **LB301** (LB301)
- Shen, Y. **LB9** (LB9)
- Sherlock, M.E. **LB18** (LB18)
- Sherman Jollis, M. **LB224** (LB224)
- Sherman, W.J. **LB235** (LB235)
- Shermon, S. **E120** (LB509)
- Sherpa, M. **LB414** (LB414)
- Sherpa, M.T. **LB407** (LB407)
- Sherry, A.M. **D74** (LB577)
- Shi, H. **LB477** (LB477)
- Shi, R. **LB47** (LB47)
- Shido, O. **LB420** (LB420)
- Shin, A. **E141** (LB530)
- Shin, J.H. **LB243** (LB243)
- Shin, K.J. **LB176** (LB176)
- Shinohara, K. **LB342** (LB342)
- Shiple, A.W. **LB214** (LB214)
- Shirley, C. **LB206** (LB206)
- Shoenbeck, S. **LB280** (LB280)
- Shohei, H. **LB451** (LB451)
- Shroyer, K.R. **D83** (LB586)
- Shuler, J.F. **LB81** (LB81)
- Shypilova, I. **LB197** (LB197)
- Siddiqah, I. **LB186** (LB186)
- Siddiqi, A. **D71** (LB554)
- Siddiqi, S. **D71** (LB554)
- Siddiquee, A. **C297** (LB624)
- Siddiqui, A. **LB145** (LB145)
- Siddiqui, F. **D67** (LB568)
- Signore, A. **LB410** (LB410)
- Sikora, J. **LB96** (LB96)
- Silswal, N. **D80** (LB583)
- Silva, C.A. **LB355** (LB355)
- Silva, J.C. **LB326** (LB326)
- Silva, J.J. **D90** (LB593)
- Silva, M.D.P.A. **LB310** (LB310)
- Sim, W-S **LB84** (LB84), **LB85** (LB85), **LB86** (LB86)
- Simard, E. **C272** (LB661)
- Simon, M.D. **LB23** (LB23)
- Simons, B. **D75** (LB558)
- Simonson, T.S. **LB412** (LB412), **LB413** (LB413), **LB478** (LB478), **LB479** (LB479)
- Sindi, S.S. **LB42** (LB42)
- Sinen, O. **LB473** (LB473)
- Singh, A. **LB1** (LB1)
- Singh, B. **D78** (LB561)
- Singh, D. **LB295** (LB295)
- Singh, M.V. **LB442** (LB442)
- Singh, R. **C274** (LB663)
- Singh, S. **LB40** (LB40)
- Sithicharoenchai, P. **D91** (LB594)
- Sivagnanam, M. **LB357** (LB357)
- Sivamallikarjuna, A. **C289** (LB616)
- Skorseth, C. **LB116** (LB116)
- Skryabin, B.V. **LB147** (LB147)
- Slaughter, S. **C267** (LB637)
- Slaughter, S.I. **LB124** (LB124)
- Slocum, C. **LB317** (LB317)
- Slupsky, C. **LB359** (LB359)
- Smalley, D. **LB212** (LB212)
- Smetanin, Y. **LB213** (LB213)
- Smith, A. **LB210** (LB210)
- Smith, A.R. **LB38** (LB38)
- Smith, K.J. **LB293** (LB293)
- Smith, M.L. **LB16** (LB16)
- Smith, S. **LB200** (LB200)
- Smith, S.R. **LB217** (LB217)
- Smuckler, H. **LB212** (LB212)
- Snijders, T. **LB430** (LB430)
- Snyder, E.M. **LB299** (LB299)
- Soares, J.W. **LB358** (LB358)

- Sobhanmanesh, S. **E145** (LB534)
 Solak, S. **LB406** (LB406)
 Solis, F.E. **LB254** (LB254)
 Sollott, S. **LB288** (LB288)
 Somani, Y.B. **LB308** (LB308)
 Somapallae, R. **LB442** (LB442)
 Sondgeroth, K. **LB496** (LB496)
 Soneral, P. **LB116** (LB116), **LB218** (LB218)
 Song, C. **LB301** (LB301)
 Song, H. **LB365** (LB365)
 Song, W. **LB452** (LB452)
 Soni, S.D. **LB93** (LB93)
 Soodvilai, S. **LB446** (LB446)
 Sousa, E. **LB394** (LB394)
 Sousa, E.P. **LB362** (LB362)
 Sowinski, R. **LB371** (LB371)
 Soydan, G. **C287** (LB614), **LB364** (LB364), **LB458** (LB458)
 Spandau, D.F. **LB26** (LB26)
 Spann, R.A. **LB344** (LB344)
 Sparks, S. **LB58** (LB58)
 Spellecy, M. **LB210** (LB210)
 Spencer, S-K **LB347** (LB347)
 Speth, R. **LB205** (LB205)
 Sprick, J. **LB244** (LB244)
 Spudich, J. **LB203** (LB203)
 Srikanth, N. **LB211** (LB211)
 Srinivasan, P. **LB360** (LB360)
 Srivastava, A. **D85** (LB588), **E135** (LB524)
 St. Clair, K. **LB216** (LB216)
 Stam, J. **C283** (LB653)
 Standridge, A. **LB251** (LB251)
 Stange, R. **LB147** (LB147)
 Stanhope, K. **LB474** (LB474)
 Staniszewski, L.J. **LB98** (LB98)
 Starrs, G.E. **LB375** (LB375)
 Sary, C. **LB409** (LB409)
 Staton, K.M. **LB346** (LB346)
 Staunton, C. **LB484** (LB484)
 Staus, S. **LB203** (LB203)
 Stearns, R.L. **LB258** (LB258)
 Stearns, W. **LB211** (LB211)
 Stebbing, M. **LB345** (LB345)
 Stefano, G. **LB190** (LB190)
 Steger, A. **LB91** (LB91)
 Steinach, M. **LB252** (LB252)
 Steinback, C. **LB414** (LB414)
 Stembridge, M. **LB293** (LB293)
 Stenger, M.B. **LB260** (LB260)
 Stephens, B. **LB122** (LB122)
 Sterling, J. **LB215** (LB215)
 Stern, A. **LB19** (LB19)
 Stewart, D.J. **LB289** (LB289)
 Stewart, J. **D75** (LB558)
 Stewart, S. **C297** (LB686)
 Stigall, G. **E132** (LB521)
 Stone, A.J. **LB474** (LB474)
 Stoops, J. **D72** (LB573)
 Storm, K. **LB295** (LB295)
 Storz, J. **LB410** (LB410)
 Stout, J.R. **LB257** (LB257)
 Stout, R. **E120** (LB509)
 Stowe, D.F. **LB161** (LB161)
 Strandberg, S. **LB204** (LB204)
 Strom, D. **LB200** (LB200)
 Strom, J. **LB200** (LB200)
 Strong, E.B. **LB448** (LB448)
 Strother, C. **LB204** (LB204)
 Strother, J. **LB204** (LB204)
 Su, S. **LB477** (LB477)
 Suarez-Arroyo, D.I.J. **LB48** (LB48)
 Subbotin, V.M. **D70** (LB571)
 Suci, A. **LB94** (LB94)
 Sugimoto, K. **LB487** (LB487)
 Sugimoto, N. **LB420** (LB420)
 Sugiyama, Y. **LB395** (LB395)
 Suh, J-W **C263** (LB633)
 Suh, P-G **LB192** (LB192)
 Suhani, P. **LB195** (LB195)
 Sullivan, E.L. **LB398** (LB398)
 Sullivan, N. **LB202** (LB202)
 Suman, S.R. **C288** (LB677)
 Sumiyoshi, E. **LB420** (LB420)
 Summers, A. **E142** (LB531)
 Sun, D. **LB402** (LB402)
 Sun, N. **LB50** (LB50)
 Sun, X. **LB240** (LB240)
 Sung, R-J **LB216** (LB216)
 Supriya, G. **C289** (LB616)
 Surendran, K. **LB447** (LB447)
 Suzuki, Y. **LB273** (LB273)
 Svensson, F.K.E. **LB456** (LB456)
 Swain, J. **D73** (LB574)
 Swain, S. **LB60** (LB60)
 Swaminathan, S. **LB96** (LB96)
 Swärd, K. **LB283** (LB283)
 Swayze, E. **LB349** (LB349)
 Sweeney, M. **LB210** (LB210)
 Sweeney, R. **LB66** (LB66)
 Swenson, J. **E142** (LB531)
 Syed, G.H. **LB145** (LB145)
 Syed, H. **LB104** (LB104)
 Sylvia, K.E. **LB230** (LB230)
 Szczepanski, J. **LB347** (LB347)
 Szekely, A. **E126** (LB515)
- ## T
- Tadlock, K. **LB203** (LB203)
 Taft, D. **LB359** (LB359)
 Tagaban, S. **LB103** (LB103)
 Taguchi, H. **LB77** (LB77)
 Taiwo, I.A. **LB162** (LB162)
 Tajik, J. **C277** (LB604)
 Takacs, K. **LB111** (LB111)
 Takahashi, D.A. **LB398** (LB398)
 Takeda, R. **LB272** (LB272), **LB273** (LB273)
 Takei, Y. **D72** (LB555)
 Takemoto, H. **LB395** (LB395)
 Takenaka, R. **E140** (LB529)
 Takeshita, A. **D72** (LB555), **LB348** (LB348)
 Takuwa, M. **LB274** (LB274), **LB366** (LB366), **LB374** (LB374), **LB395** (LB395), **LB483** (LB483), **LB485** (LB485)
 Talaat, I.M. **D86** (LB589)
 Talbott, J. **LB122** (LB122)
 Talbott, J.A. **LB376** (LB376)
 Talbott, S. **LB122** (LB122)
 Talbott, S.M. **LB376** (LB376)
 Tan, F. **E138** (LB527)
 Tan, W. **LB240** (LB240), **LB241** (LB241)
 Tanaka, M. **LB366** (LB366), **LB483** (LB483), **LB487** (LB487)
 Tang, H. **LB444** (LB444)
 Tang, H.C.E. **C273** (LB600)
 Tani, T. **LB395** (LB395)
 Tanko, Y. **LB384** (LB384)
 Tansatit, T. **E111** (LB500)
 Tategaki, A. **LB485** (LB485)
 Tavares Neto, F.R. **C275** (LB664), **E115** (LB504)
 Tawfik, D.R.A. **D84** (LB587)
 Tawil, B. **LB242** (LB242)
 Tayel, H.Y. **D86** (LB589)
 Taylor, C.E. **LB463** (LB463)
 Taylor, E.B. **LB343** (LB343)
 Taylor, E.M. **LB248** (LB248), **LB249** (LB249)
 Taylor, S. **LB50** (LB50), **LB56** (LB56), **LB149** (LB149)
 Tazima, M.d.F.G. **E115** (LB504)
 Tejerina, T. **D68** (LB569)
 Telles, C. **LB101** (LB101)
 Temperley, M.K. **LB253** (LB253)
 Teng, Y-N **C286** (LB675)
 Tenney, A. **C274** (LB644)
 Terzaghi, W. **C261** (LB631)
 Tewson, P. **C268** (LB638)
 Thackray, V. **LB382** (LB382)
 Theilen, N.T. **LB492** (LB492)
 Thevelein, J. **LB143** (LB143)
 Thilgavathi, R. **LB100** (LB100)
 Thomas, P. **LB96** (LB96)
 Thomas, S. **LB145** (LB145)
 Thompson, J.R. **E110** (LB499)
 Thompson, M.M. **LB360** (LB360)
 Thomson, D.M. **LB486** (LB486), **LB493** (LB493), **LB497** (LB497)
 Thornbury, K. **LB432** (LB432)
 Thornbury, K.D. **LB436** (LB436)
 Thorne, R.G. **C290** (LB617)
 Thornell, I.M. **LB443** (LB443)
 Thornton, S.N. **LB258** (LB258)
 Thota, L. **LB204** (LB204)
 Thueson, H. **E161** (LB550)
 Thurston, T. **LB340** (LB340)
 Thygesen, M.M. **LB456** (LB456)
 Tian, L. **LB94** (LB94)
 Tibiriçá, E.V. **C298** (LB625)
 Tichacek, L. **LB187** (LB187)
 Tien, C-P **D79** (LB582)
 Tiezzi, D.G. **E153** (LB542), **E155** (LB544)
 Tiffany, B. **LB208** (LB208)
 Tiffany, K. **LB208** (LB208)
 Tift, M.S. **LB412** (LB412)
 Tigner, A. **LB351** (LB351)
 Tinucci, T. **LB350** (LB350)
 Tirapelli, D.P.d.C. **C275** (LB664), **E115** (LB504), **E137** (LB526), **E153** (LB542), **E155** (LB544)

- Tirapelli, L.F. **C275** (LB664), **E115** (LB504), **E155** (LB544)
- Tiret, L. **LB484** (LB484)
- Tirgar, R. **E159** (LB548)
- Tiwari, V. **LB27** (LB27)
- Toda, M. **D72** (LB555), **LB348** (LB348)
- Toder, E. **LB321** (LB321)
- Toedebusch, R.G. **LB142** (LB142)
- Tolessa, W. **D80** (LB563)
- Tomar, N. **LB170** (LB170)
- Tomashek, M. **LB203** (LB203)
- Tompa, P. **LB143** (LB143)
- Toney, G.M. **LB471** (LB471)
- Topel, S. **E161** (LB550)
- Torres, L. **D82** (LB565)
- Torres, Z. **LB92** (LB92)
- Torres-Montañez, S. **LB181** (LB181)
- Torsiello, M. **C261** (LB631)
- Totoki, T. **D72** (LB555), **LB348** (LB348)
- Townsend, J.R. **LB257** (LB257)
- Tran, A. **LB61** (LB61)
- Tran, Q-K **C269** (LB596), **C272** (LB599)
- Tremblay, J. **LB293** (LB293)
- Triggles, C. **C280** (LB669)
- Trinidad, J. **LB115** (LB115)
- Trivedi, M. **C284** (LB611)
- Truong, H. **LB406** (LB406)
- Truong, S. **LB71** (LB71)
- Tsai, H-Y **LB30** (LB30)
- Tsoukas, M. **LB441** (LB441)
- Tsuchiya, Y. **LB368** (LB368)
- Tsukamoto, J.J. **LB486** (LB486)
- Tsutsui, H. **LB342** (LB342)
- Tsutsui, K. **LB330** (LB330)
- Tsuzuki, T. **LB488** (LB488)
- Tucci Junior, S. **C275** (LB664)
- Tulp, O.L. **C284** (LB673), **D77** (LB580), **LB136** (LB136), **LB164** (LB164), **LB459** (LB459)
- Tyagi, S. **LB492** (LB492)
- Tymko, M.M. **LB293** (LB293)
- Tyrak, K. **E116** (LB505), **E117** (LB506)
- Tyrak, K.W. **E113** (LB502)
- U**
- Uda, T. **LB77** (LB77), **LB80** (LB80)
- Ueda, H. **LB32** (LB32)
- Umetani, M. **LB328** (LB328)
- Umunnakwe, S.E. **LB160** (LB160)
- Upton, M. **LB261** (LB261)
- Urban, S. **LB204** (LB204)
- Uriquidi, J. **LB83** (LB83)
- Uruwan, S. **E111** (LB500)
- Uthman, L. **LB292** (LB292)
- Uy, D.R. **E110** (LB499)
- Uyehara, C. **LB235** (LB235)
- V**
- Vaghasia, N. **LB242** (LB242)
- Vaikshnoraita, M.A. **LB232** (LB232)
- Valdes Fernandez, B.N. **LB193** (LB193)
- Valdés, B. **D81** (LB564)
- Valdez, A. **D89** (LB592)
- Valencia, J. **E127** (LB516)
- Valencia, L. **D68** (LB569)
- Valencia, M.L. **E136** (LB525)
- Valencia, S. **LB186** (LB186)
- Valenzuela, L.A.R. **C270** (LB640)
- Vallejo-Elias, J. **LB312** (LB312), **LB318** (LB318)
- Vallez, N. **E134** (LB523)
- van der Donk, W.A. **LB88** (LB88)
- van der Merwe, M. **LB489** (LB489)
- Van Guilder, G.P. **LB269** (LB269)
- van Haandel, L. **C274** (LB663)
- van Helmond, N. **LB266** (LB266)
- Van Leemputte, F. **LB143** (LB143)
- Van Winkle, K. **E129** (LB518)
- Van Winkle, L. **C279** (LB649)
- Vanden Heuvel, G. **LB349** (LB349)
- VanWert, A.L. **C261** (LB631)
- Varet, O. **D82** (LB585)
- Varga, B. **LB111** (LB111)
- Varga, I. **C278** (LB605), **E125** (LB514), **E126** (LB515), **E160** (LB549), **E162** (LB551)
- Vasudevan, M. **LB13** (LB13)
- Vaughan, J.A. **LB265** (LB265), **LB270** (LB270)
- Vaughan, R.A. **LB196** (LB196)
- Vecchini-Rodriguez, C.M. **C293** (LB682)
- Veeranki, S. **LB297** (LB297)
- Velazquez, C. **D89** (LB592)
- Velázquez, C.A. **E136** (LB525)
- Velazquez, Y. **E149** (LB538)
- Velazquez-Villafañá, M. **LB113** (LB113)
- Veljkovic, P. **LB213** (LB213)
- Venditto, M. **C261** (LB631)
- Ver Meer, M. **LB109** (LB109)
- Veras, W.R. **E118** (LB507)
- Verdeille, S. **E146** (LB535), **E147** (LB536)
- Verdicchio, C. **LB339** (LB339)
- Verhoeven, D. **D91** (LB594)
- Versées, W. **LB143** (LB143)
- Vertessy, B.G. **LB91** (LB91)
- Viana, M.P. **LB185** (LB185)
- Victor, R.G. **LB300** (LB300)
- Vieira, N.F. **E137** (LB526)
- Vignola, J.N. **LB93** (LB93)
- Villa Bellosta, R. **LB287** (LB287)
- Villada, D. **LB115** (LB115)
- Villafuerte, F.C. **LB404** (LB404), **LB412** (LB412), **LB413** (LB413), **LB478** (LB478), **LB479** (LB479)
- Villali, J. **LB42** (LB42)
- Villanueva, J.A. **LB63** (LB63), **LB76** (LB76)
- Vingren, J. **LB256** (LB256)
- Viriden, T. **LB312** (LB312), **LB318** (LB318)
- Visquerra, V. **C286** (LB613)
- Vissa, A. **E133** (LB522)
- Viswanathan, S. **LB224** (LB224)
- Vizcardo Galindo, G.A. **LB404** (LB404)
- Vizcardo-Galindo, G. **LB412** (LB412), **LB479** (LB479)
- Von Kneten, A. **C264** (LB634)
- Vouri, M. **LB138** (LB138)
- Voznessenskaya, V. **LB453** (LB453)
- Vrtar, A. **LB234** (LB234)
- Vuthaluru, S. **D85** (LB588), **LB195** (LB195)
- W**
- Wa, E. **LB202** (LB202)
- Wagner, C. **LB98** (LB98)
- Wagner, H.E. **LB412** (LB412)
- Wagner, P.D. **LB412** (LB412)
- Walens, A. **C279** (LB668)
- Walker-Kopp, N.A. **LB16** (LB16)
- Walkup, R.D. **LB70** (LB70)
- Wall, S. **LB202** (LB202)
- Wallace, K. **LB347** (LB347)
- Wallner, N. **C264** (LB634)
- Walmsley, G. **LB484** (LB484)
- Walsh, C.S. **LB267** (LB267)
- Walsh, L. **LB327** (LB327), **LB331** (LB331)
- Walter, N.G. **LB21** (LB21)
- Wan, B. **C263** (LB633)
- Wan, H-Y **LB340** (LB340)
- Wan, L.Q. **LB239** (LB239)
- Wan, W. **LB280** (LB280), **LB311** (LB311), **LB332** (LB332)
- Wang, C-L **LB107** (LB107)
- Wang, D. **C267** (LB637)
- Wang, H-W **LB325** (LB325)
- Wang, J. **C291** (LB618), **C294** (LB683), **LB444** (LB444)
- Wang, K. **LB491** (LB491)
- Wang, L. **C274** (LB601)
- Wang, P. **C284** (LB654)
- Wang, S. **C268** (LB595)
- Wang, X. **C290** (LB679), **C295** (LB684), **LB477** (LB477)
- Wang, Y. **C263** (LB633), **LB301** (LB301)
- Wang, Z. **LB444** (LB444)
- Wang, Z-Z **C283** (LB610)
- Wanner, S.P. **LB268** (LB268)
- Ward, V. **LB143** (LB143)
- Warshamana-Greene, G. **LB126** (LB126)
- Waseda, K. **LB222** (LB222)
- Wasserman, D. **LB281** (LB281)
- Watanabe, M. **LB306** (LB306)
- Watson, B. **E139** (LB528)
- Watson, B.A. **E141** (LB530)
- Wauson, E. **C269** (LB596), **C272** (LB599), **C285** (LB612)
- Weavil, J. **LB340** (LB340)
- Webb, R.C. **LB356** (LB356)
- Weber, G. **LB492** (LB492)

- Weber, N.C. **LB292** (LB292)
 Weerasinghe, N. **LB64** (LB64)
 Wei, L. **C293** (LB620)
 Weinfeld, M.S. **LB475** (LB475)
 Wek, R.C. **LB26** (LB26)
 Welles, J.E. **LB380** (LB380)
 Wen, C. **LB211** (LB211)
 Wenner, M. **LB238** (LB238)
 Wenner, M.M. **LB237** (LB237)
 Westerman, K. **LB114** (LB114)
 Weston, M.D. **D79** (LB562)
 Whitcomb, V. **C272** (LB599)
 White, D. **LB377** (LB377)
 White, N. **LB18** (LB18)
 Whiteheart, S.W. **LB187** (LB187)
 Whitenack, K.M. **LB429** (LB429)
 Whitfield, G. **LB146** (LB146)
 Whitfield, G.K. **LB155** (LB155)
 Widlansky, M.E. **LB185** (LB185)
 Wilderman, R. **C281** (LB651)
 Willemink, M. **E144** (LB533)
 Williams, A.T. **LB337** (LB337), **LB338** (LB338)
 Williams, D.E. **D79** (LB562)
 Williams, F.E. **C278** (LB648)
 Williams, J.M. **LB347** (LB347)
 Williams, J.P. **LB392** (LB392)
 Williams, L. **LB341** (LB341)
 Williams, R. **LB127** (LB127)
 Williams, S. **LB211** (LB211)
 Willie, C. **LB293** (LB293)
 Willms, A.J. **LB494** (LB494)
 Wilson, A. **LB216** (LB216)
 Wilson, E.K. **LB486** (LB486)
 Wilson, M. **LB269** (LB269), **LB373** (LB373)
 Wilson, P. **LB169** (LB169)
 Winn, N.C. **D69** (LB570)
 Witt, E. **LB203** (LB203)
 Wofford, J. **LB182** (LB182)
 Wolfe, A. **LB390** (LB390)
 Wolin, M.S. **LB402** (LB402)
 Woo, M.S. **C273** (LB662)
 Wood, S. **LB457** (LB457)
 Woodford, M. **LB327** (LB327)
 Woodford, M.L. **D69** (LB570)
 Woodham, E.F. **LB147** (LB147)
 Woods, A. **LB208** (LB208)
 Woods, E.J. **D74** (LB577)
 Woods, J.H. **C281** (LB608)
 Wormstone, M.I. **LB437** (LB437)
 Wormwood, K.L. **LB117** (LB117)
 Worthington, T. **LB37** (LB37)
 Wright, S. **LB255** (LB255), **LB258** (LB258)
 Wright, S.M. **LB226** (LB226)
 Wright, S.S. **LB256** (LB256)
 Wu, J. **LB50** (LB50)
 Wu, K. **LB444** (LB444)
 Wu, L. **LB478** (LB478)
 Wu, T-S. **LB139** (LB139)
 Wu, W.G. **LB194** (LB194)
 Wu, X. **LB444** (LB444)
 Wu, Y. **C274** (LB601), **LB202** (LB202)
 Wu, Z. **C267** (LB637)
 Wyson, B.M. **LB493** (LB493)
- X**
- Xia, Z. **C268** (LB595), **C273** (LB600)
 Xiao, M. **LB202** (LB202)
 Xiong, J. **LB29** (LB29)
 Xu, A. **D73** (LB576), **LB389** (LB389)
 Xu, G. **LB359** (LB359)
 Xu, H. **LB301** (LB301)
 Xu, L. **C297** (LB686), **LB409** (LB409)
 Xu, Y. **LB311** (LB311), **LB332** (LB332)
 Xue, Y. **D72** (LB573)
- Y**
- Ya, A. **LB210** (LB210)
 Yachie, A. **LB420** (LB420)
 Yakubu, M. **LB298** (LB298)
 Yakubu, M.A. **C287** (LB676)
 Yalcin, O. **LB279** (LB279)
 Yamamoto, A. **LB374** (LB374)
 Yan, D. **C268** (LB595)
 Yanagimoto, K. **LB368** (LB368)
 Yang, J-H. **LB35** (LB35)
 Yang, M. **LB161** (LB161)
 Yang, X. **C285** (LB655)
 Yang, Y. **C291** (LB618), **LB410** (LB410)
 Yano, Y. **LB348** (LB348)
 Yao, L. **C274** (LB601)
 Yao, Y. **C276** (LB603)
 Yao, Z. **LB34** (LB34)
 Yarneau, G. **E124** (LB513)
 Yasuma, T. **D72** (LB555), **LB348** (LB348)
 Ybarbo, K. **LB474** (LB474)
 Yechoor, V. **LB482** (LB482)
 Yedulla, N. **LB191** (LB191)
 Yeh, L. **LB49** (LB49)
 Yeh, S. T-Y. **LB353** (LB353)
 Yeomans, B.L. **LB379** (LB379)
 Yi, S. **LB134** (LB134)
 Yim, V.T. **LB267** (LB267)
 Yin, C. **LB431** (LB431)
 Yin, L. **LB280** (LB280), **LB311** (LB311), **LB332** (LB332)
 Yin, Y. **LB95** (LB95)
 Ying, F.S. **C273** (LB600)
 Yip, C.M. **E133** (LB522)
 Yip, G. **LB413** (LB413)
 Yip, K-P. **D66** (LB567)
 Yokoyama, H. **LB272** (LB272), **LB273** (LB273)
 Yoo, J-K. **LB333** (LB333)
 Yoo, Y. **LB176** (LB176)
 Yoon, H-Y. **LB135** (LB135)
 Yoshihara, T. **LB46** (LB46), **LB488** (LB488)
 Yoshizaki, H. **LB112** (LB112)
 Young, C. **LB427** (LB427)
 Young, N. **E140** (LB529)
 Young, S.A. **LB93** (LB93)
 Yu, C-J. **LB107** (LB107)
 Yu, H. **LB402** (LB402)
 Yu, S.P. **C293** (LB620)
 Yu, W. **LB191** (LB191)
 Yu, Y. **D71** (LB572)
 Yuan, H.S. **LB69** (LB69)
 Yuan, J. X-J. **LB444** (LB444)
 Yuan, L. **C285** (LB612)
 Yucel, J. **LB335** (LB335)
 Yudowski, G. **C293** (LB682)
 Yukilevich, R. **LB81** (LB81)
- Z**
- Zabowka, A. **E113** (LB502)
 Zahran, M. **LB39** (LB39), **LB89** (LB89)
 Zaina, S. **LB110** (LB110)
 Zambataro, C. **LB335** (LB335)
 Zamuner, L.F. **LB310** (LB310)
 Zamuner, S.R. **LB310** (LB310)
 Zantl, R. **LB125** (LB125)
 Zebolsky, A. **LB349** (LB349)
 Zhang, B. **LB303** (LB303)
 Zhang, D. **C268** (LB595)
 Zhang, D.C. **LB48** (LB48)
 Zhang, H. **C282** (LB652)
 Zhang, J. **C259** (LB629), **C277** (LB666)
 Zhang, L. **LB455** (LB455)
 Zhang, M.X. **E124** (LB513)
 Zhang, P. **LB56** (LB56)
 Zhang, Q. **LB444** (LB444)
 Zhang, R. **LB156** (LB156)
 Zhang, W. **E152** (LB541)
 Zhang, X. **C291** (LB618)
 Zhang, Y. **C274** (LB601), **LB148** (LB148), **LB311** (LB311), **LB332** (LB332)
 Zhang, Z. **C283** (LB610)
 Zhao, D. **LB240** (LB240), **LB241** (LB241)
 Zhao, Z. **LB33** (LB33)
 Zheng, J. **C285** (LB655)
 Zheng, Z. **LB61** (LB61)
 Zhong, X-B. **C284** (LB654)
 Zhou, J. **LB159** (LB159), **LB383** (LB383)
 Zhou, W. **LB87** (LB87), **LB95** (LB95)
 Zhou, Y. **D73** (LB576), **E152** (LB541)
 Zhu, C. **LB19** (LB19)
 Zhu, M. **LB301** (LB301)
 Zhuang, Y. **LB400** (LB400)
 Ziaran, S. **E160** (LB549)
 Ziamba, B. **LB127** (LB127)
 Zill, S. **E128** (LB517)
 Zillow, A.L. **LB136** (LB136), **LB164** (LB164)
 Zimmerman, M. **LB161** (LB161)
 Ziskova, M. **E125** (LB514)
 Zobel, A. **C285** (LB612)
 Zolkowska, D. **C275** (LB645)
 Zouboules, S. **LB414** (LB414)
 Zouboules, S.M. **LB407** (LB407)
 Zuurbier, C.J. **LB292** (LB292)