University of Florida
College of Medicine
2016 Celebration of Research
Celebrating research under one roof…

Welcome to the UF College of Medicine 2016 Celebration of Research. Every year we come together to celebrate the breadth, quality, and merit of the research landscape within the UF College of Medicine. As we have grown our research programs, this has become a logistical challenge. A few years ago we moved our poster session to the Stephen C. O’Connell Center. With more than 460 research posters on display tonight we are now even pushing the limits of this great venue. We remain committed to the opportunity to come together to highlight the cutting-edge interdisciplinary research of our faculty, postdocs, and students. More than ever, this event affords us a unique opportunity to visit with old friends, meet new colleagues, exchange ideas, and develop new collaborations and synergies.

This year we are rolling out the UF College of Medicine Research Landscapes video project. A sample of these videos are on display tonight at the Gate 1 entrance of the O’Connell Center. Please stop by to view this new and innovative way of conveying the power of our research programs, the excitement of our faculty, and the beauty of our home.

The annual Celebration of Research reminds us that it is through discovery and the impact of our research that we improve the quality of human life, and, in doing so, advance the College of Medicine and the University of Florida. As you attend this year’s events please be sure to engage with the presenters and join me in thanking them for supporting and promoting research at the UF College of Medicine.

Michael L. Good, MD
Dean, UF College of Medicine
SCHEDULE OF EVENTS

Monday, February 22, 2016
5:30pm – 8:30pm    Poster Session & Reception
                   Stephen C. O’Connell Center

Tuesday, February 23, 2016
12:00 noon         Keynote Speaker
                   C1-11, Communicore Building, HSC

“Pathogenesis of Severe Acute Respiratory Syndrome and Middle East Respiratory Syndrome”

Stanley Perlman, MD, PhD
Professor of Microbiology
Professor of Pediatrics
University of Iowa
Carver College of Medicine
Iowa City, IA

Sponsored by:
The Joseph & Leila Applebaum Visiting Professorship
Stanley Perlman, MD, PhD is a professor of Microbiology and Pediatrics at the University of Iowa Carver College of Medicine. His research training was initially in cell biology, developmental biology, and molecular virology, but after attending medical school and receiving additional training as a pediatric infectious diseases physician, his interests became focused on immunopathology and immune evasions in viral disease.

His expertise is in the relationship between virus replication in the infected host and the immune response to the virus. Dr. Perlman is especially interested in how the host response to the virus causes immunopathological disease. He has studied coronaviruses, with an emphasis on pathogenesis, for over 30 years and his current research is focused on the pathogenesis of murine coronavirus infections and the study of respiratory human coronavirus infections: SARS (Severe Acute Respiratory Syndrome)-coronavirus and human coronavirus MERS-CoV. The SARS-coronavirus and MERS-coronavirus cause the most significant diseases of any of the human coronaviruses.

Dr. Perlman has authored or co-authored over 190 peer-reviewed publications. He has been a member and/or fellow of multiple national medical societies including the Society of Pediatric Research, Infectious Diseases Society of America, and the American Pediatric Society. He was also elected to the American Academy of Microbiology, AAAS, and the Association of American Physicians.
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INFORMATIONAL POSTERS

1. **SECIMtools: Metabolomics tools for everyone.** Miguel Ibarra, Oleksandr Moskalenko, Alison Morse, Alexander Kirpich, Justin Fear, Lauren McIntyre

2. **University-school partnerships to recruit and prepare students for biomedical careers.** Houda Darwiche, Julie Bokor, Christy Rodkin, Mary Jo Koroly

3. **Interdisciplinary Center for Biotechnology Research.** Rob Ferl

4. **Partners in preeminent research: How the HSC library supports and facilitates research efforts.** Ariel Pomputius, Margaret Ansell, Nancy Schaefer, Hannah Norton, Michele Tennant

5. **UF Center for Addiction Research & Education.** Marieta Heaton, Sara Jo Nixon, Joanna Peris

6. ** Extrusion of 3D alginate tubes using two-step gelation approach.** Yifei Jin, Ashley Compaan, Tapomoy Bhattacharjee, Yong Huang

7. **Deformation compensation during inkjet printing of vascular-like structures.** Kyle Christensen, Ashley Compaan, Changxue Xu, Zhengyi Zhang, Wenxuan Chai, Yong Huang

8. **Process-induced cell injury during laser cell printing.** Zhengyi Zhang, Ruitong Xiong, Ashley Compaan, Wenxuan Chai, Lei Zhou, Yong Huang

AGING

9. **Region specific expression of aging and cognitive genes.** Lara Ianov, Asha Rani, Ashok Kumar, B. Sofia Beas, Thomas Foster

10. **Age-related decline of spatial discrimination performance based on difficulty may reflect pattern separation deficits.** Sarah Johnson, Leslie Gaynor, Patricia Sacks, Sean Turner, Wendy Yoder, Brandi Ormerod, Andrew Maurer, Jennifer Bizon, Sara Burke
11. Object-place paired associations require interactions between prefrontal and perirhinal cortices. Abigail Hernandez, Jordan Reasor, Sean Turner, Sarah Barthle, Sarah Johnson, Jennifer Bizon, Andrew Maurer, Sara Burke

12. Florida Medication Burden Assessment Rating - exploratory validation study. Andrew Pierce, Uma Suryadevara, Joseph Thornton

13. Does sympathetic arousal measured by skin conductance objectively quantify mobility self-efficacy? Sudesna Chatterjee, Dorian Rose, Eric Porges, Dana Otzel, Raghashree Rajaravivarma, David Clark

14. Rehabilitation of corticospinal control of walking following stroke. Brittany Michael, Emily Fox, Dorian Rose, Evangelos Christou, Stephen Nadeau, Janis Daly, David Clark


16. Inclusion seeding by mutant α-synuclein fibrils in primary neuronal cultures and in transgenic mice. Nicola Rutherford, Mieu Brooks, Vincent Hudson, Benoit Giasson

17. Progress report on the roles of glutathione transferase α4 in maintaining auditory function. Hyo-Jin Park, Chul Han, Mi-Jung Kim, Karessa White, Sarah Weintraub, Senthilvelan Manohar, Dalian Ding, Paul Linser, Richard Salvi, Shinichi Someya

18. Increased Nav1.5 channel late current underlies prolongation of action potential duration of ventricular myocytes from aged guinea pigs. Yejia Song, John Shryock, Luiz Belardinelli


22. Chronic variable stress recapitulates age-related changes to GABAergic indices in the PFC. Matthew Bruner, Joseph McQuail, Iara Backes, Rebecca Clifton, Barry Setlow, Deborah Scheuer, Jennifer Bizon

23. NR2A-containing NMDARs in the PFC are required for working memory and predict age-related cognitive decline. Joseph McQuail, B. Sofia Beas, Kailey Simpson, Kyle Kelly, C. Jason Frazier, Barry Setlow, Jennifer Bizon

24. ACE2 Activator, Diminazene Aceturate, reduces adiposity, but preserves lean mass in young and old rats. Erin Bruce, Yasemin Sakarya, Nataliya Kirichenko, Hale Toklu, Drake Morgan, Christy Carter, Philip Scarpace, Nihal Tümer


26. Association between structural changes in the brain and physical function in older women. Amal Wanigatunga, Adam Woods, Mark Espeland, Brad Cannel, Julie Weitlauf, Ramon Casanova, Marian Limacher, Todd Manini

27. Validation of accelerometer data from Samsung Gear S Smartwatch. Anis Davoudi, Matin Kheirkhahan, Sanjay Ranka, Todd Manini, Parisa Rashidi

28. Efficacy of fermented papaya preparation on markers of systemic inflammation: Methods and design for a randomized controlled trial. Stephen Anton, Todd Manini, Christy Karabetian, Heather Mutchie, Christiaan Leeuwenburgh, Bhanuprasad Sandesara

29. Resveratrol to Enhance Vitality and Vigor in Elders (REVIVE): Methods and design for a randomized controlled trial. Christiaan Leeuwenburgh, Todd Manini, Anna-Marie Joseph, Bhanuprasad Sandesara, Diane Barb, Michael Marsiske, Jonathan Shuster, Christy Karabetian, Stephen Anton
CANCER

30. Translatable RNA nanoparticles supplant dendritic cell vaccines in cellular immunotherapy. Elias Sayour, Gabriel De Leon, Christina Pham, Adam Grippin, Catherine Flores, Duane Mitchell


32. Characterizing tumor microenvironment in 9L pontine glioma using MRI. Magdoom Kulam, Francisco Delgado, Ana Bohorquez, Paul Carney, Carlos Rinaldi, Malisa Sarntinoranont, Thomas Mareci

33. TCRVβ usage to predict tumor specificity against glioma. Catherine Flores, Christina Pham, Jeffrey Drake, Tyler Wildes, Rebecca Abraham, Duane Mitchell


36. The involvement of connective tissue growth factor in nonalcoholic steatohepatitis and liver cancer development under diabetic condition. Liya Pi, Marda Jorgensen, Seh-Hoon Oh, Altin Gjymishka, Bryon Petersen

37. CENP-B protects centromere chromatin integrity by facilitating histone deposition via the H3.3-specific chaperone Daxx. Viacheslav Morozov, Serena Giovinazzi, Alexander Ishov

38. Variability in radiation therapy for rectal cancer between academic and community centers. Ahsan Raza, Sanda Tan, Christiana Shaw, Lindsey Goldstein, Ines Alamo, Atif Iqbal

39. Differences in treatment of rectal cancer by age and demographics: A national review. Ahsan Raza, Sanda Tan, Christiana Shaw, Lindsey Goldstein, Ines Alamo, Atif Iqbal

40. CCR2 deficiency or pharmacological antagonism impacts tumor progression and the influx of macrophages in murine gliomas. Defang Luo, Matthew Sarkisian, Jeremy McIntyre, Wenyin Shi, Lawrence Kenyon, Jeffrey Harrison
41. Overcoming human myeloid leukemia cells resistance to myxoma virus oncolytic virotherapy by use of T cell carriers. Ana Matos, Winnie Chan, Tom Hofland, Nancy Villa, Masmudur Rahman, Christopher Cogle, Grant McFadden

42. Enhanced mitochondrial respiration in slow-cycling glioma stem cells. Krisha Amin, Alvin Vuong, Lan Hoang-Minh, Michael Schmoll, Jaimin Patel, Regina Martuscello, Benjamin Griffith, Vinata Vedam-Mai, Matthew Sarkisian, Brent Reynolds, Loic Deleyrolle

43. Slow-cycling tumor stem cell based immunotherapy for malignant glioma. Fritz-Gerald Charles, Yuanzheng Gao, Kyle Dajac, Elias Sayour, Loic Deleyrolle

44. A combination natural product therapy attenuates common side effects associated with chemotherapy. Rachel Freedman, Amanda Vozzola, Ben Griffith, Matt Bloom, Jennifer Owen, Brent Reynolds, Coy Heldermon, Loic Deleyrolle


46. Mesothelin-specific chimeric antigen receptor-modified T cells (CARTs) targeting cholangiocarcinoma. Yu Jiao, Jatuporn Supjitjoon, Lung-Ji Chang

47. Chimeric antigen receptor-modified T cells (CARTs) targeting small cell lung cancer. Wei Zhu, Daniil Shabashvili, Monrat Chulenetra, Maria Zajac-Kaye, Frederic Kaye, Lung-Ji Chang

48. Epithelial plasticity exaggerates tobacco smoke-induced lung fibrosis. Sarah Lulu, Anitha Shenoy, Huacheng Luo, Jianrong Lu

49. Combination of VEGF-A and PD-1 blockade may enhance antitumor efficacy in GBM. Yu Long, Changlin Yang, Linchun Jin, Haitao Ge, Hongbo Bao, Catherine Flores, Zhiguo Lin, Duane Mitchell, Jianping Huang

51. CD70 - a key driver of chemokine-mediated immune suppression and indicator of negative prognosis in gliomas. Haitao Ge, Changlin Yang, Linchun Jin, Yu Long, Yifan Chang, Luyan Mu, Gabriel De Leon, Jeffrey Drake, Hongbo Bao, Yibo Yin, Qiong Wang, James Yang, William Friedman, Duane Mitchell, Zhiguo Lin, Jianping Huang

52. Molecular engineering of amplified tumor RNA-pulsed dendritic cells in adoptive cellular therapy targeting medulloblastoma and glioblastoma. Oleg Yegorov, Jeffrey Drake, Duane Mitchell

53. Dual mTOR kinase inhibitor reverses rapamycin resistance in prostate cancer cells. Yao Dai, Li Zhao, Dietmar Siemann


55. Identifying novel therapeutic agents to specifically de-repress silenced tumor-suppressor genes. Benedetto DiCiaccio, Lei Zhou

56. New postoperative neurologic deficit abrogates survival benefit from increased extent of resection in glioblastoma patients. Edward De Leo, Joseph Abbatematteo, Paul Kubilis, Sasha Vaziri, Frank Bova, Duane Mitchell, Maryam Rahman

57. Myxoma virus therapy for small cell lung cancer (SCLC) using patient samples and a genetically engineered SCLC mouse model. Daniel Shabashvili, Masmudur Rahman, Patrick Kellish, Harald Messer, Mary Reinhard, Grant McFadden, Frederic Kaye, Maria Zajac-Kaye

58. Interactions of family history of breast cancer with radiotherapy in relation to breast cancer-free survival in a population-based breast cancer registry. Danmeng Li, Volker Mai, Travis Gerke, Lusine Yaghjyan

59. Effect of exogenous HGF on c-Met inhibition in in vitro metastatic functions. Veronica Hughes, Dietmar Siemann

60. The impact of aerobic exercise on oxygenation and vascularity in breast cancer models. Jennifer Wiggins, Jennifer Lee, Lori Rice, Dietmar Siemann

61. Potential regulation of polyamine metabolism in breast cancer by death domain associated protein DAXX. Iqbal Mahmud, Timothy Garrett, Diaqing Liao

63. Gene mutations in MDS associating with peripheral blood count abnormalities. Shannon Somer Stockton, Vasu Malhotra, Xiaomin Lu, Maya Thangavelu, Maher Albitar, Christopher Cogle

64. Pilot study of early markers of radiation-induced cardiac injury in patients with left-sided breast cancer receiving photon or proton therapy. Shruti Siva Kumar, Alexandria Waler, Julie Bradley, Christopher Klassen, Walter O'Dell


67. Snail and E-Cadherin expression in Primary Cutaneous Melanoma – Providing insights into the correlation between BRAF and Epithelial-Mesenchymal Transition. Brendon Mitchell, Dominick Leone, John Feller, Noah Frydenlund, Shi Yang, Meera Mahalingam

68. βArr1 regulates androgen and glucocorticoid receptors signaling in castration-resistant prostate cancer. Hamsa Thayele Purayil, Joseph Black, Iqbal Mahmud, Yehia Daaka

69. Human colorectal cancer-associated biofilms promote tumorigenesis in susceptible mice. Sarah Tomkovich, Christine Dejea, Kathryn Winglee, Jillian Pope, Josee Gauthier, Danielle Ferragutti, Xiaolun Sun, Marcus Muehlbauer, Ernesto Perez-Chanona, Anthony Fodor, Cynthia Sears, Christian Jobin

70. CRTC1 activation by nuclear import links LKB1-null lung adenocarcinoma and lung mucoepidermoid cancers. Chunxia Cao, Zichao Zhang, Min Zhang, Yue Jiang, Zirong Chen, W. Douglas Cress, Maria Zajac-Kaye, Lizi Wu, Frederic Kaye

71. Autophagy and prostate cancer. Debra Akin, Jae-Sung Kim, William Dunn
72. Cachexia mediates alterations in the neuromuscular junction in a murine model of colorectal cancer. A. Gary Todd, Sarah Judge, Lauren Vaught, Andrew Judge, Darin Falk

73. Increased PKR expression inhibits differentiation of hematopoietic stem cells. Michael Byrne, Xiaodong Cheng, Mohini Patel, Zeel Patel, Amalin Asous, W. Stratford May, Richard Bennett

74. Role of histone deacetylases in regulating cancer cell stemness and survival. Alta Johnson, Suming Huang, Yi Qiu

75. Leukemia stem cell: Is it the true reason for the drug resistance? Bowen Yan, Suming Huang, Yi Qiu

76. Exploring the importance of cancer pathways by meta-analysis of differential protein expression networks in three different cancers. Sinjini Sikdar, Somnath Datta, Susmita Datta

77. A novel in vitro model to study the effects of alcohol in HCC. William Puszyk, Michael Paiva, Ryan Hlady, Qunfeng Wu, Michael Burns, Marieta Heaton, Keith Robertson, Chen Liu

78. Inhibition of PLK1 induces growth arrest and apoptosis in tumorigenic OS cells. Maria Guijarro, Elham Nasri, Padraic Levings, Steve Ghivizzani, C. Parker Gibbs


80. Epigenetic reprogramming of osteosarcoma tumor initiating cells alters histologic and metastatic phenotype. E.M. Viktoria Hyddmark, Padraic Levings, Margaret White, Ali Zarezadeh, Elham Nasri, Maria Guijarro, Glyn Palmer, Steve Ghivizzani, C. Parker Gibbs

81. Cyclin-dependent kinase 2 is an ideal target for ovary tumors with elevated cyclin E1 expression. Liu Yang, Shuang Huang

82. SSBs coordinate DNA replication and repair. Lauren Douma, Jaclyn Hayner, Linda Bloom

83. Ablation of PCM1 increases glioblastoma cell death and sensitivity to temozolomide. Lan Hoang-Minh, Loic Deleyrolle, Nari Nakamura, Alexander Parker, Regina Martuscello, Brent Reynolds, Matthew Sarkisian
84. Detection of tumor antigen-specific immune responses in patients with hepatocellular carcinoma. Miguel Ararat, Todd Brusko, Yiling Xu, Thu Le Trinh, Wen Yeh, Mark Atkinson, Clive Wasserfall, Roniel Cabrera

GENETICS

85. Role of LANA N-terminal chromosome binding site (aa 5-15) in transcriptional control and episome maintenance. Vaibhav Jain, Brian Krueger, Ekaterina Gavrilova, Peter Turner, Peter Medveczky, Alexander Ishov, Rolf Renne

86. C9orf72 BAC mouse model with motor deficits and neurodegenerative features of ALS/FTD. Yuanjing Liu, Amrutha Pattamatta, Tao Zu, Tammy Reid, Olgert Bardhi, David Borchelt, Anthony Yachnis, Laura Ranum

87. A scalable recombinant HSV-based manufacturing system for production of highly potent adeno-associated type 9 vectors. Laura Adamson-Small, Eugene Krasnogorskyi, Mark Potter, Brian Cleaver, Barry Byrne, Nathalie Clément

88. Decellularized embryonic hearts to investigate congenital heart disease. Hassan Ashraf, Christopher Lacko, Rebecca Wachs, Christine Schmidt, Hideko Kasahara

89. AAV9 gene transfer rescued heart failure of cardiac myosin light chain kinase knockout mice. James Fleming, Manas Biswal, Alfred Lewin, Hideko Kasahara

90. Direct protein delivery of zinc finger DNA-binding domains as a potential therapy for hemoglobinopathies. Mir Hossain, Jared Stees, Yong Shen, Nancy Nabilsli, Isaac Knudson, Shaleen Thakur, Jorg Bungert

91. Light-inducible control of DNA transcription with spatiotemporal resolution. Lorena De Mena, Yan Zhang, Pedro Fernandez-Funez, Diego Rincon-Limas

92. Serpin reactive center loop gene therapy for liver damage in alpha1 antitrypsin deficiency. Yuanqing Lu, Rejean Wang, Mark Brantly

94. Single-cell epigenetics in polyploid and diploid cells: The search for cell identity. Emily Dabe, Andrea Kohn, Leonid Moroz

95. Genomics and epigenomics of complete regeneration of elementary brains and wound healing. Rachel Sanford, Andrea Kohn, Leonid Moroz

96. Epitranscriptomic landscape of single neurons: Insights in the memory mechanisms. Leonid Moroz, Maria Basanta Sanchez, Andrea Kohn

97. Genetic mutations in cardiomyopathy: Pathogenicity, penetrance and expressivity. Alejandro Sanoja, F. Jay Fricker, Hua Li, Peggy Wallace

98. Intrinsic increased ACE2 expression protects spiny mouse Acomys cahirinus against ischemic-induced cardiac dysfunction. YanFei Qi, Ashok Kumar, Juan Zhang, Ravneet Vohra, Glenn Walter, Malcolm Maden, Michael Katovich, Mohan Raizada, Carl Pepine


100. Clotting Factor VIII overexpression shows signs of ER stress but doesn’t cause toxicity in gene therapy setting. Irene Zolotukhin, David Markusic, Brett Palaschak, Meera Srikanthan, Roland Herzog

101. Comparative development of the human and mouse urethra. Brooke Armfield, Kari Means, Martin Cohn

102. Analysis of Shh signaling in the external genitalia of a cilia mutant. Ana Enriquez, Christine Larkins, Martin Cohn

103. Formation of the vaginal opening: Sexual differentiation of the urethra and the role of androgen. Christine Larkins, Ana Enriquez, Martin Cohn

104. Loss of RhoA in urethral epithelium disrupts external genital development. Kelsey Lewis, Martin Cohn

105. The effects of the endocrine disruptor vinclozolin on the sexually dimorphic 2D:4D ratio. Lindsey North, Kelsey Lewis, Martin Cohn

106. The role of glucocorticoid receptor signaling pathway in adeno-associated virus 2 infection. Chen Ling, Yuan Lu, Jun Li, Daniel Zhang, George Aslanidi, Changquan Ling, Arun Srivastava
107. CRISPR/Cas-mediated modification of MEGF10 produces a novel model for the study of MEGF10 myopathy. Daphney Clermont, Madhurima Saha, Hemakumar Mutra Reddy, Peter Kang

108. Development of optimized AAV serotype vectors for the potential gene therapy of cystic fibrosis. Yanerys Colon-Cortes, Prativa Sharma, Chen Ling, Mutasim Abu-Hasan, Arun Srivastava, George Aslanidi


110. The use of miR-122 and its target sequence in adeno-associated virus-mediated cytotoxic gene therapy. Jun Li, Zifei Yin, Daniel Zhang, Georgy Aslanidi, Arun Srivastava, Changquan Ling, Chen Ling

111. Comparison of the effects of the propionate on the tricarboxylic acid (TCA) cycle using different measurements. Alexander Kirpich, Mukundan Ragavan, Matthew Merritt, Lauren McIntyre

112. Genetic variant discovery in S. aureus MSCRAMMs by whole genome sequencing. Alison Morse, Steven Lower, Magnus Hook, Vance Fowler, Lauren McIntyre


115. The role of the pyruvate dehydrogenase kinase 4 (PDK4) gene mutation in the development of dilated cardiomyopathy in Doberman Pinschers and potential application of cardiac gene therapy. Luiz Bolfer, Amara Estrada, Brandy Winter, Kathryn Taggart, Francisco Lourenço, Naohiro Terada, Barry Byrne, Thomas Conlon, Christina Pacak

116. AAV-mediated gene delivery of TAZ for the correction mitochondrial dysfunction in Barth syndrome patient induced pluripotent stem cell models. Amy Donate, Manashwi Ramanathan, Katherine Santostefano, Skylar Rizzo, Naohiro Terada, Barry Byrne, Christina Pacak
117. **AAV-MitoTimer to assess mitochondrial turnover in vivo and in vitro.** Bennett Gosiker, Skylar Rizzo, Amy Donate, Christina Pacak

118. **Characterizing soleus function in a post-hypoxic mouse model of Barth syndrome.** Michael Jones, Skylar Rizzo, Amy Donate, Peter Kang, Christina Pacak

119. **Mitochondrial structural defects in Barth syndrome.** Manashwi Ramanathan, Amy Donate, Christina Pacak

120. **Genotype/phenotype correlation of cellular function and AAV-mediated gene delivery to treat Xeroderma Pigmentosum - Cockayne Syndrome (XP-CS).** Skylar Rizzo, Amy Donate, Michael Jones, Kelsey Manko, Katherine Santostefano, Nao Terada, Fowzan Alkuraya, Peter Kang, Christina Pacak

**IMMUNOLOGY, HEMATOLOGY, AND STEM CELLS**

121. **Utility of dual-color silver in situ hybridization and mRNA chromogenic in situ hybridization in adipocytic tumor MDM2 assessment.** Jong Taek Kim, John Reith, Wonwoo Shon

122. **Nuclear TFE3 immunoreactivity is present in angiomatoid fibrous histiocytomas but not in other cutaneous histiocytomas.** Dianne Torrence, Karen Fritchie, John Reith, William Sukov, Gert Smalberger, Wonwoo Shon

123. **Detection of somatic mutations in secondary tumors associated with nevus sebaceus by targeted next generation sequencing.** Jong Taek Kim, Kimberly Newsom, Wonwoo Shon

124. **Laser microdissection and mass spectrometric-based proteomic analysis of sclerotic bodies (“elastocollagenous balls”) in nephrogenic systemic fibrosis.** Naziheh Assarzadegan, Michael Imber, Patrick Vanderboom, Cristine Charlesworth, Wonwoo Shon

125. **Hectd3 determines the encephalogenic potential of Th17 cells.** Jonathan Cho, Samira Mansouri, Rejean Wang, Danielle Califano, Mohammad Uddin, Kyle Lorentsen, Mark Brantly, Dorina Avram

126. **Transcription factor Bcl11b governs the development and effector function of iNKT cell populations.** Mohammad Uddin, Dil Sultana, Kyle Lorentsen, Jonathan Cho, Mariana Kirst, Mark Brantly, Danielle Califano, Derek Sant’Angelo, Dorina Avram
127. Regulation of interferon pathways by ubiquitin specific proteinase
   18. Daniel Aldridge, Jared Taylor, Melanie Cash, Mark Wallet

128. Type 1 diabetes in a dish. Lucas Armitage, Brittney Newby, Katherine
   Santostefano, Melanie Cash, Jing Chen, Naohiro Terada, Alexi Savinov, Todd
   Brusko, Clayton Mathews, Mark Wallet

129. iPSC-derived macrophages: A tool for studying HIV-1 persistence.
   Jared Taylor, Daniel Aldridge, Melanie Cash, Katherine Santostefano, Lucas
   Armitage, Naohiro Terada, Mark Wallet

130. Mechanism of the blood pressure response to a novel vascular
       disrupting combretastatin (OXi4503). Mahan Shahrivar, Elizabeth Wise,
       Leslie Pettiford, David Chaplin, Carl Pepine, Christopher Cogle

131. HLA-C*08:02/16:02 versus C*05:01/16:01, ambiguous pairs
       particularly susceptible to typing error. Steven Goldstein, Maxim Norkin,
       Mai Ta

132. Effect of methotrexate on CD4+ T cell metabolism and function.
       Timothy Chong, Ramya Sivakumar, Laurence Morel

133. Thromboelastography measurement of apheresis platelets
       functionality exposed to lower than standard temperatures. Miriam
       Duque, Neil Harris, Paola Portillo, Peter Pelletier

134. A GMP compatible protocol for the ex vivo expansion of human
       regulatory T cells from cryopreserved umbilical cord blood. Ashley
       Bushdorf, Howard Seay, Kristi Balavage, Amy Putnam, Emma Rosenau, John
       Wingard, Kate Girard, Morey Kraus, Jeff Bluestone, Michael Haller, Todd
       Brusko

135. Redefining the extracellular markers of human regulatory T cells
       improves research methods and has important implications for T1DM
       cellular therapies. Leana Peters, Howard Seay, Wen-I Yeh, Todd Brusko

136. Minimizing post-transplant relapse: A phase I, dose escalation
       study of Decitabine in pediatric and adult patients with high risk
       hematologic malignancies post allogeneic stem cell transplantation.
       Abigail Schirmer, Howard Seay, Paul Castillo, Todd Brusko

137. The type 1 diabetes-associated co-stimulatory molecule CD226
       impacts lymphocyte frequency and CD8+ T cell function. Wen-I Yeh,
       Howard Seay, Brittney Newby, Clayton Mathews, Todd Brusko
138. A detailed analysis of peripheral blood cytokines 2-3 weeks after acute myocardial infarction: IL-6-related impairment of bone marrow function. Mahan Shahrivari, Elizabeth Wise, Micheline Resende, Jonathan Shuster, Jingnan Zhang, Roberto Bolli, John Cooke, Ray Ebert, David Feldman, Josh Hare, Tim Henry, Aisha Khan, Doris Taylor, Jay Traverse, Joe Wu, Phil Yang, Carl Pepine, Christopher Cogle

139. A combination hydrogel microparticle matrix to deliver autoantigen and adjuvant utilizing the NOD mouse to prevent type 1 diabetes. Young Mee Yoon, Clive Wasserfall, Jamal Lewis, Martha Campbell-Thompson, Benjamin Keselowsky, Mark Atkinson

140. Type 1 diabetes results in changes in neutrophils, but not neutrophilic enzymes. Andrea Lin, Kieran McGrail, Mark Brantly, Mark Atkinson, Desmond Schatz, Michael Haller, Clayton Mathews

141. Bone marrow stem cell niche dysfunction in human SLE. Chao Xie, Yuan Zhang, Li-Jun Yang

142. Building an induced pluripotent stem cell (iPSC)-based model system to test genetic variants of Resistant Hypertension (RHTN). Nihal El Rouby, Katherine Santostefano, Natalie Fredette, Niki Biel, Fang Bai, Shouguang Jin, Mark Wallet, Jeffrey Harrison, Caitrin McDonough, Yan Gong, Carl Pepine, Atsushi Takahashi, Toshihiro Tanaka, Michiaki Kubo, Rhonda Cooper-DeHoff, Naohiro Terada, Julie Johnson

143. Generation of endothelial cells from induced pluripotent stem cells. Natalie Fredette, Katherine Santostefano, Naohiro Terada

144. LIGHT programs activated CD8 T cells to survive and become memory cells in response to a viral pathogen. Pritesh Desai, Georges Abboud, Farhad Dastmalchi, Jessica Stanfield, Carl Ware, Michael Croft, Jianxun Song, Tarun Hutchinson, Shahram Salek-Ardakani

145. Human newborns have a dysfunctional innate immune response when compared to healthy adults. Brittany Mathias, Jaimar Rincon, Juan Mira, James Wynn, Philip Efron, Lyle Moldawer, Shawn Larson

146. Alum vaccination improves myelopoiesis and phagocytosis in neonatal polymicrobial sepsis. Jaimar Rincon, Angela Cuenca, Brittany Mathias, Dina Nacionales, Ricardo Ungaro, Philip Efron, Lyle Moldawer, Shawn Larson
147. Impaired phagocytosis of apoptotic cells in pristane-induced lupus simulates the clearance defect in human SLE. Shuhong Han, Haoyang Zhuang, Ravil Khaybullin, Stepan Shumyak, Anan Afaneh, Xin Qi, Lijun Yang, Westley Reeves

**INFECTIOUS DISEASES**

148. PA3297 counters antimicrobial effect of azithromycin in *Pseudomonas aeruginosa*. Hao Tan, Guangtao Huang, Lu Zhang, Yongxin Jin, Weihui Wu, Shouguang Jin


150. Metabolites from anaerobic microbes attenuate mTOR signaling and protect against Campylobacteriosis in IL10/-/- mice. Xiaolun Sun, Christian Jobin

151. Co-evolutionary analysis of proteins forming viroplasm-like structures during rotaviral infection. Nabil Abid, David Nolan, Marco SALEMI

152. Transcriptome analysis of the frontal lobe in SIV infected macaques to examine effects of SIV brain infection and SIV encephalitis. James Jarad Dollar, Jae Min, David Nolan, Carla Mavian, David Moraga Amador, Marco Salemi

153. MALDI-TOF mass spectrometry and blakpc gene phylogenetic analysis of an outbreak of carbapenem resistant *Klebsiella pneumoniae* strains. Marta Fogolari, Eleonora Cell, Silvia Angeletti, Alessandra Lo Presti, Alessandra Avola, Lucia De Florio, Massimiliano Andrea Vitali, Giordano Dicuonzo, Massimo Ciccozzi, Marco Salemi

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155. Potential reservoirs of replicating HIV-1 found in patients who died with no detectable viral load while on effective drug regimens. Andrew McAvoy, Samuel Maruniak, James Jarad Dollar, David Nolan, Rebecca Rose, Susanna Lamers, Michael McGrath, Marco Salemi
156. Antifungal potential of antimicrobial peptide mimetics in a mouse model of disseminated Candidiasis. Masoom Chowdhury, Katie Freeman, Gill Diamond, Richard Scott, Lisa Ryan


158. HIV is associated with increased rate of single positive QuantiFERON®-TB Gold In-Tube results in Florida. Kaitlyn Wright, Livia Sura, Michael Lauzardo

159. Norovirus antagonism of B cell antigen presentation results in impaired control of acute infection. Shu Zhu, Melissa Jones, Danielle Hickman, Shuhong Han, Westley Reeves, Stephanie Karst

160. Clinical and microbiological impact of inhaled tobramycin treatment on cystic fibrosis patients with Pseudomonas aeruginosa. Francesca Dickhaus, Mutassim Abu Hasan, Elizabeth Tremblay, Kenneth Klinker, Kenneth Rand, Stacy Beal


162. Uropathogenic E. coli mechanisms of intracellular invasion. Allyson Shea, WanJu Kim, Yehia Daaka

163. Semi-Quantitative patient data from a multiplex Respiratory Viral Panel (RVP): Can we learn something from population-based study? Kenneth Rand, Maura Pieretti, Rodney Arcenas, Stacy Beal, Herbert Houck, Emma Boslet, John Lednicky

164. The global spread of Middle East Respiratory Syndrome: An analysis fusing traditional epidemiological tracing and molecular phylodynamics. Jae Min, Eleonora Cella, Massimo Ciccozzi, Antonello Pelosi, Marco Salemi, Mattia Prosperi

165. Live recombinant attenuated salmonella vaccines against Mycobacterium tuberculosis. Shilpa Sanapala, Shifeng Wang, Blessing Okon, KITdorlang Dkhar, Christie Hay, Roy Curtiss III, Josephine Clark-Curtiss

166. Biofilm evaluation on explanted orthopedic implants. Alessandra DiMare, Daniel Gibson
167. Testing the anti-proteinase activity of a surfactant. Sunyoung Jeong, Gregory Schultz, Daniel Gibson

168. Myxoma virus M029 and Vaccinia E3 are orthologous dsRNA-binding proteins that possess similar host-range functions but differ in their ability to block type I IFN. Masmudur Rahman, Eugenie Bagdassarian, Mohamed Ali, Grant McFadden

169. An uncommon cause of acute encephalopathy in liver cirrhosis. Monique Dieuvil, John Malaty


171. Reduction of biofilm bacteria grown on pig skin explants by a topical formulation containing components generally recognized as safe. Qingping Yang, Richard Stockel, Daniel Gibson, Gregory Schultz

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174. Peptidoglycan-polysaccharide model of Crohn’s disease displays an early response to anti-TNF treatment for inflammation but has delayed elevation of Th17-related inflammatory cytokines. Christopher Broxson, Laura Reingold, Phyllissa Schmiedlin-Ren, Scott Owens, Ellen Zimmermann

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176. Dysfunctional high density lipoprotein may be predictive of adverse outcomes in severe sepsis. Taylor Robinson, Faheem Guirgis, Sunita Dodani, Jennifer Reynolds, Colleen Kalynych, Lyle Moldawer, Christiaan Leeuwenburgh, Srinivasa Reddy, Frederick Moore


178. Selective donor endothelial heparan sulfate modifying enzyme ndst1 deletion significantly blocks rejection after renal transplant. Sriram Ambadapadi, Hao Chen, Dara Wakefield, Sufi Morshed, William Clapp, Alexandra Lucas

179. Gridlock of early vascular development to aortic coarctation. Changzoon Chun, Heejae Chun, Mark Segal

180. Effects of IFN-I on blood-derived SMPC differentiation and arterial wall. Yanpeng Diao, Rajesh Mohandas, Pui Lee, Zhiyu Liu, Larysa Sautina, Wei Mu, Shiyu Li, Xuerong Wen, Byron Croker, Mark Segal


183. Critical role of Sirtuin 1-Mitofusin 2 axis in ischemia/reperfusion injury in aged livers. Sooyeon Lee, Rebecca U, Kristina Go, Joseph Flores-Toro, Thomas Biel, Ming-Jim Yang, Catherine Miney, Ivan Zendejas, Kevin Behrns, Jae-Sung Kim

184. SDF-CXCR4 axis as a potential means of increasing engraftment of pluripotent stem cell derivatives into the structurally normal liver. Ming-Jim Yang, Jonathan Chu, Luis Concepcion, Naiyou Liu, Jeffrey Fair, Kevin Behrns, Jae-Sung Kim

185. Nicotinic activity of arecoline, the psychoactive element of “betel nuts”, suggests a basis for habitual use and anti-inflammatory activity. Nicole Horenstein, Clare Stokes, Roger Papke

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195. Deletion of the hemopexin or heme oxygenase-2 gene aggravates brain injury following stroma-free hemoglobin-induced intracerebral hemorrhage. Bryan Slootsky, Bo Ma, Emanuela Tolosano, Sylvain Doré

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198. **In utero caffeine exposure induces transgenerational effects on the adult heart.** Xiefan Fang, Ryan Poulsen, Scott Rivkees, Christopher Wendler

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206. **A novel model of Pompe disease with accelerated cardiorespiratory phenotype.** A. Gary Todd, Lauren Vaught, Brenden Doyle, Glenn Walter, Lucia Notterpek, David Fuller, Barry Byrne, Darin Falk

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215. Evaluating autophagy in Pompe disease following gene therapy. Angela McCall, Sylvia Stankov, Darin Falk, Barry Byrne

216. Gene therapy correction of frataxin deficiency in a novel mouse model of Friedreich’s ataxia. Monica Tschosik, Thiago Love-Leonor, Manuela Corti, Barry Byrne

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224. **Electrophysiological alterations of the cerebellar Purkinje cells in DYT1 dystonia mouse models.** Hong Xing, Huanxin Chen, Fumiaki Yokoi, Kelly Dexter, Ariel Ferguson, Ashley Baker, Leslie Castro, Ziyad Barghouthy, Juan del Calvo, Steven Roper, Yuqing Li

225. **Electrophysiological alterations of the striatal cholinergic interneurons in Dyt1 ΔGAG heterozygous knock-in mice.** Fumiaki Yokoi, Hong Xing, Kelly Dexter, Raul Alsina, Iakov Efimenko, Shiv Krishnaswamy, Melinda Gerard, Matthew Villanueva, Carly Misztal, Patrick Lynch, Ariel Ferguson, Ashley Baker, Leslie Castro, Ziyad Barghouthy, Juan del Calvo, Steven Roper, Yuqing Li

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229. **Activation of toll-like receptor pathways in fetal hypothalamus after transient maternal ventilatory hypoxia.** Charles Wood, Eileen Chang, Miguel Zarate, Elaine Richards
230. The genomic effects of ketamine on the transcriptomics response to umbilical cord occlusion in the fetal cerebral cortex: Comparison with hypoxic hypoxia suggests potential mechanism. Miguel Zarate, Eileen Chang, Charles Wood

231. Short Amyloid-beta peptides are anti-amyloidogenic and attenuate the toxicity of Amyloid-beta 42 in vivo. Brenda Moore, Jason Martin, Lorena de Mena, Pedro Cruz, Carolina Ceballos, Heather Bouchard, Estefania Steiner, Christopher Janus, Diego Rincon-Limas, Pedro Fernandez-Funez, Todd Golde

232. Exploring new substrates of the versatile signal peptide peptidase like proteins. Yong Ran, Todd Golde

233. Correlation of recovery of bladder function with preservation of long tracts in spinal cord in rats. Jacob Wilson, Xiaoping Luo, Daniel Hoh

234. Collagen and α-tubulin of tympanic membrane fibroblasts treated with quinolones and aminoglycosides. Bailey Milne-Davies, Patrick Antonelli, Nicklas Orobello, Carolyn Dirain

235. Prolonged METH exposure suppresses BK channel activity in the dopamine neurons. Min Lin, Danielle Sambo, Habibeh Khoshbouei

236. Comparison of IC6 and thalamic injections of AAV5 in an MPS IIIB model. Kolarich Andrew, Gilkes Janine, Heldermon Coy

237. Cell-based quantitative high-throughput assays to identify small molecule therapies for neurological lysosomal storage disease. Dae Song Jang, Melani Solomon, Ann Moser, Theresa Shapiro, Ernesto Bongarzone, Wenjuan Ye, Noel Southall, Xin Hu, Juan Marugan, Marc Ferrer, Gustavo Maegawa

238. Using cell-activation and signaling-directed strategy to generate human induced neural stem cells (hiNSCs) from primary fibroblasts from MPS-II patients. Guimei Tiam, Shin-ichi Kano, Gustavo Maegawa

239. Quantitative high-throughput screen to identify small molecule enhancers of mutant arylsulfatase A (ASA) in metachromatic leukodystrophy patient cell lines. Guimei Tiam, Wenjuan Ye, Noel Southall, Xin Hu, Juan Marugan, Marc Ferrer, Gustavo Maegawa

240. Differential expression and localization of GPCRs to cilia of neurons in the olfactory bulb. Jeremy McIntyre
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244. Gray matter damage and respiratory activity following mid-cervical spinal cord injury (SCI). L. Nicole Little, Casey Gilliams, Robert Dauser, David Fuller, Paul Reier

245. Design and construction of a mixed-reality lumbar puncture simulator. Amanda Boczkowski, Anindita Chakraborty, Orrin Dayton, Kristopher Hooten, Maryam Rahman, Didier Rajon, William Friedman, Frank Bova


247. Rapid fabrication of custom molds for in-OR fabrication of cranioplastlastic prosthesis. Didier Rajon, William Friedman, Frank Bova

248. Mapping Matrin-3 binding sites in the human brain using iCLIP. Alexandra Coomes, James Thomas, Maurice Swanson, Edgardo Rodriguez

249. Cell-type specific vulnerability in nucleotide repeat diseases. Rachna Manek, Zhaozhong Li, Alexandra Coomes, Edgardo Rodriguez


254. Electromagnetic tracking of upper extremity motion kinetics in severe tremor disorders. Seth Oliveria, Madison Bellaire, Frank Bova, Kelly Foote

255. Inpatient hyperglycemia in post-operative malignant glioma patients. Matthew Decker, Maryam Rahman

256. Leveraging temozolomide to enhance efficacy of immune checkpoint blockade in the treatment of glioblastoma. Aida Karachi, Hassan Azari, Catherine Flores, Jianping Huang, Duane Mitchell, Maryam Rahman

257. Whole exome sequencing reveals mutations in SPG7 in a patient with cerebellar ataxia, executive dysfunction and emotional disconnection. Karen McFarland, Linwei Zhang, Tetsuo Ashizawa

258. Neurosurgical management of mycotic aneurysms: Retrospective review. Brian Hoh, Amit Singla, Meshka Anderson

259. Effects of IL-6-induced gliosis and anti-Abeta combinational therapy on amyloid deposition in Alzheimer’s disease mouse model. Franklin Burg, Partamita Chakrabarty, Xuefei Liu, Todd Golde, Yona Levites

261. Rich club networks distinguish lasting (24 h) effects of MDPV from cocaine: A potential CNS functional biomarker. Luis Colon-Perez, Marcelo Febo

262. Resting state functional connectivity in rat brain during extended daily access to cocaine and abstinence. Caitlin Orsini, Luis Colon-Perez, Sara Heshmati, Lori Knackstedt, Barry Setlow, Marcelo Febo

263. Behavioral characterization of the effects of cannabis smoke and anandamide in rats. Adriaan Bruijnzeel, Xiaoli Qi, Lidia Guzhva, Shannon Wall, Jay Deng, Mark Gold, Marcelo Febo, Barry Setlow

264. Custom indentation system for viscoelastic characterization of brain tissue surrogates. Daniel Stewart, Andres Rubiano, Chelsey Simmons
265. Repetitive motor behavior development and indirect basal ganglia pathway function in deer mice reared in an enriched environment. Allison Bechard, Mark Lewis

266. Using diffusion MRI to assess basal ganglia circuitry in an animal model of repetitive behavior. Bradley Wilkes, Luis Colon-Perez, Marcelo Febo, Mark Lewis

267. The effects of the allocation of focal attention and habituation on the line bisection task. Kristi Balavage, Damon Lamb, Lauren Knight, David Bielick, Keith Kincaid, Kenneth Heilman

268. Hemispheric lateralization of attentional background distraction. David Bielick, Damon Lamb, Keith Kincaid, Kristi Balavage, Lauren Knight, Kenneth Heilman

269. Effects of focal and global spatial attention on compound line bisection tasks. Lauren Knight, Damon Lamb, Kristi Balavage, David Bielick, Keith Kincaid, Kenneth Heilman

270. Synchronization between the epileptic hippocampus and the scalp EEG. Elakkat Gireesh


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274. After intensive motor learning, evidence of plasticity in specific brain regions driving clinically significant recovery of function after stroke. Janis Daly, Jessica McCabe, Michelle Monkiewicz, Svetlana Pundik

275. Anesthesia with sevoflurane in neonatal rats: Developmental neuroendocrine abnormalities are alleviated by corticosteroid receptor and Cl- importer antagonists. Ling-Sha Ju, Jiao-Jiao Yang, Oscar Hernandez, Christoph Seubert, Nikolaus Gravenstein, Anatoly Martynyuk

277. The development of cell-specific conditional Nrf2 knockouts using Cre-Lox recombination. Morgan Carson, Jenna Leclerc, Lei Liu, Sylvain Doré

278. Increased brain hemopexin levels improves outcomes after experimental ICH. Andrew Lampert, Jenna Leclerc, Juan Santiago-Moreno, Alex Dang, Pedro Cruz, Awilda Rosario, Todd Golde, Sylvain Doré

279. Modulation of blood accumulation and angiogenic responses by PGE2-EP3 signaling after ICH in aged mice. Matthew Diller, Jenna Leclerc, Andrew Lampert, Sylvain Doré

280. Modulation of neuroinflammation by haptoglobin reduces oxidative stress and improves intracerebral hemorrhage outcomes. Jenna Leclerc, Alex Dang, Juan Santiago-Moreno, Andrew Lampert, Sylvain Doré

281. PGE2 EP1-4 receptor expression levels after intracerebral hemorrhage in young, aged, and EP1 deficient mice. Julie Bailes, Jenna Leclerc, Andrew Fadool, Chase Chambers, Sylvain Doré

282. Haptoglobin improves intracerebral hemorrhage outcomes by modulating angiogenic responses. Tina Esfandiary, Jenna Leclerc, Sylvain Doré

283. Examining the effects of cell injury on microvesicle/exosome-mediated cell signaling. Dhwani Kumar, Rachna Manek, Kevin Wang

284. Study of protein breakdown following traumatic brain injury by mass spectrometry-based proteomics. Manasi Mangaonkar, Richard Yost, Kari Green, Kevin Wang


286. A systematic rat spinal cord injury biomarker study examining the effects of injury severity and temporal biomarker profiling in two biofluid types. Zhihui Yang, Helen Bramlett, Ahmed Moghieb, Dongnan Yu, Ping Wang, Fan Lin, Carl Baue, Tyler Selig, Zhiqun Zhang, Ronald Hayes, Michael Wang, W. Dalton Dietrich, Kevin Wang

288. Do different tic phenotypes have different responses to Comprehensive Behavioral Intervention for Tics (CBIT)? Wissam Deeb, Leonardo Almeida, Heather Simpson, Irene Malaty, Michael Okun


290. Subthalamic and pallidal processing of impulse control in the Parkinsonian human. P. Justin Rossi, Corinna Peden, Aysegul Gunduz, Michael Okun

291. Modulating the toxicity and inducing pathology in a YFP tagged mouse model of SOD1. Alexis Clare, Guilian Xu, Susan Fromholt, Jacob Ayers, David Borchelt

292. Prion-like propagation of mutant SOD1 misfolding and motor neuron disease spread along neuroanatomical pathways. Jacob Ayers, Susan Fromholt, Veronica O’Neal, Jeffrey Diamond, David Borchelt

293. Active immunization as a therapeutic strategy for SOD1-linked ALS. Sabrina Gill, Jacob Ayers, David Borchelt

294. Kinetics of SOD1 aggregation. Benjamin McMahon, Jacob Ayers, David Borchelt

295. Prion-like amyloid seeding from Alzheimer’s disease and pathological aging brain lysates. Brenda Moore, Susan Fromholt, Jada Lewis, David Borchelt

296. Variability of familial ALS pathogenesis: Does SOD1 protein conformation play a role? Adriana Sari, Jacob Ayers, David Borchelt

297. Murine Aβ over-production produces diffuse and compact Alzheimer-type amyloid deposits. Guilian Xu, Yong Ran, Susan Fromholt, Chunhua Fu, Anthony Yachnis, Todd Golde, David Borchelt

298. Neural activity in the basolateral amygdala in a risky decision-making task in rats. Caitlin Orsini, Nick Simon, Marcelo Febo, Jennifer Bizon, Barry Setlow
299. Quantification of the Unified Parkinson’s Disease Rating Scale (UPDRS) using non-invasive motion capture technology. Alexander Lubinski, Christopher Hess

300. Seeding properties of FTDP-17 associated tau mutants. Kevin Strang, Pedro Cruz, Paramita Chakrabarty, Carolina Ceballos, Vincent Hudson, Matt Hamm, Todd Golde, Benoit Giasson


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304. Adeno-associated virus (AAV) mediated overexpression of Angiotensin-(1-7) partially reverses diabetes-induced retinal pathophysiology in mice. Tuhina Prasad, Ping Zhu, Amrisha Verma, Qiuhong Li

305. Expression of repressor element 1-silencing transcription factor (REST) gene in rodent and human retina: Implication in AMD. Tuhina Prasad, Amrisha Verma, Ping Zhu, Qiuhong Li

306. Beneficial effects of combined AT1 receptor/neprilysin inhibition (ARNI) versus AT1 receptor blockade alone in the diabetic eye. Tuhina Prasad, Lodí Roksnoer, Ping Zhu, Amrisha Verma, Yiming Li, Wendy Batenburg, René de Vries, A.H. Jan Danser, Qiuhong Li

307. Reduced Optic Atrophy 1 (OPA1) gene expression in diabetic retina: Implication of mitochondrial dynamics in pathogenesis of diabetic retinopathy. Amrisha Verma, Ping Zhu, Tuhina Prasad, Zhibing Liang, Qiuhong Li

308. Measuring mitochondrial dynamics in the retinal pigment epithelium under conditions of oxidative stress. Emily Brown, Casey Keuthan, John Ash
309. A unique role for PGC-1β in regulating photoreceptor resistance to oxidative stress. Casey Keuthan, John Ash

310. Identifying the regulatory elements involved in the expression of Leukemia Inhibitory Factor. Clayton Santiago, John Ash

311. Conditional knockout of AMP-activated protein kinase α1α2 allele leads to retinal cone photoreceptor degeneration. Lei Xu, John Ash

312. Novel methodology for creating primate retina with sortable cell populations. Shreyasi Choudhury, Christianne Strang, Sanford Boye, Julie Hill, Douglas Witherspoon, Daniel Kasuga, Paul Gamlin, Shannon Boye

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315. Quantifying relative transduction efficiency of rAAVs in retinal ON bipolar cells in vivo. Miranda Scalabrino, Seok-Hong Min, Sanford Boye, Shannon Boye

317. A 5HT1a agonist stimulates an antioxidant response and protects the retina in a mouse model of geographic atrophy. Alfred Lewin, Chulbul Ahmed, Manas Biswal, Hong Li, Hayou Mao

318. Early sub-retinal delivery of AAV-Sod2 protects the retina in a mouse model of progressive retinal degeneration. Manas Biswal, Cristhian Ildefonso, Brad Justis, Hong Li, Ping Han, Ping Zhu, Haoyu Mao, Lindsey Buz, Michael Massengill, Chulbul Ahmed, Alfred Lewin

319. Induction of endogenous Nrf2 activation in the retina partially protects from oxidative stress and inflammation. Cristhian Ildefonso, Henrique Jaime, Emily Brown, Ryo Iwata, Chulbul Ahmed, Michael Massengill, Manas Biswal, Shannon Boye, William Hauswirth, John Ash, Quinhong Li, Alfred Lewin

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333. Student-run free-clinic participation has a positive and significant correlation in medical student professional development. Kamil Nowicki, Martin Wegman, Raphael Bosse, Amanda Sacino, Lou-Ann Cooper, Nancy Hardt, Ku-Lang Chang

334. PCORI – An emergency department-to-home intervention to improve quality of life and reduce hospital use. Meenakshi Balakrishnan, Jessica Schumacher, Allyson Hall, Phyllis Hendry, Barbara Lutz, Jeffery Harman, Jingnan Zhang, Jonathan Shuster, Jessica Kalen, Donna Carden

335. Functional outcomes utilizing the Short Physical Performance Battery (SPPB) after epidural steroid injection compared to medication therapy in elderly patients with lumbar spinal stenosis. Christopher Babl, Mohamed Osman, Steven Fisher, Terrie Vasilopoulos, Elena Volpi, Rene Przkora

336. 30 day readmission rates due to pain at an academic inpatient facility: A retrospective study. Shawn Hughes, F. Kayser Enneking, Rene Przkora

337. Medical management of a patient with Myeloradiculitis from high-dose opiates used in targeted drug delivery. Spencer Hyde, Renee Gallo, Rene Przkora


342. Preconceptional awareness of tobacco and ethanol use among disadvantaged women in the Dominican Republic based on educational level and source of medical information. Weston Bertot, Erin Walker, Cristina Rabaza, Erich Wyckoff, Luis Esmurdoc, Robert Egerman

343. The effectiveness of enhanced teachable moments (charlas) on prenatal vitamin knowledge among disadvantaged women in the Dominican Republic. Erin Walker, Cristina Rabaza, Weston Bertot, Erich Wyckoff, Luis Esmurdoc, Robert Egerman

344. Identification of risk factors for early readmission following plastic and reconstructive surgery. David Kerekes, Peter Felice, Dominic Iorio, Elizabeth Pace, Christian Reintgen, Bruce Mast


346. Mining Twitter as a first step toward assessing the adequacy of gender identification terms on intake forms. Amanda Hicks, William Hogan, Michael Rutherford, Bradley Malin, Mengjun Xie, Christiane Fellbaum, Zhijun Yin, Daniel Fabbri, Josh Hanna, Jiang Bian

347. Efficacy of Laropiprant in ameliorating hyperglycemia-mediated intracerebral hemorrhage. Monique Mendes, Sherry Ali, Sylvain Doré, Abdullah Shafique Ahmad

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380. Transfused blood from older donors is associated with improved survival in patients undergoing hepatic surgery for non-hepatocellular malignancies. Alexandra Lopez, Thomas Jenkins, Shelby Thompson, Edward Downey, James Sikora, J. Peter Pelletier, Ivan Zendejas, Ryan Thomas


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395. What really interrupts cardiopulmonary resuscitation in an out of hospital cardiac arrest? Ryan Brown, Ousama Aboushaar, Christine Van Dillen

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433. **A specialty specific educational intervention to reduce unnecessary myocardial perfusion imaging.** David Winchester, Matthew Butler, Michael Massoomi, George Dibu, Rebecca Beyth

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457. Ankle bracing effects on lower extremity biomechanics during drop-jump and jump-cutting tasks. Giorgio Negron, Cong Chen, Kyle Fallgatter, Heather Vincent, Daniel Herman


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