Cover photos of three-dimensional in vivo MRI of human brain white matter at 3 Tesla.
Courtesy of Thomas Mareci, PhD, Department of Biochemistry & Molecular Biology.
Welcome from the Dean

We come together to celebrate the research underway within the University of Florida College of Medicine. Again, we will see the amazing creativity, quality, and scope through the accomplishments of our talented faculty and trainees. Most importantly, our annual Celebration of Research events afford us the opportunity to appreciate how our broad portfolio of basic, translational, population, and clinical research, will contribute to a healthier future for all. This year, we utilize the new O’Connell center lobby to host undergraduate students interested in pursuing graduate studies at the College of Medicine. Please join us in welcoming these future UF researchers. As you attend all of the 2017 Celebration of Research events, please enjoy visiting with both old and new friends and colleagues and join me in thanking them for their hard work and passion that drive the research engine, which is the UF College of Medicine.

Michael L. Good, MD
Dean, UF College of Medicine
POSTER SESSION & RECEPTION

Monday, February 27, 2017
5:30pm – 8:30pm Stephen C. O’Connell Center

Telling our story

More than 500 posters will fill the floor of the Exactech Arena at the Stephen C. O’Connell Center. The ever-increasing number of posters at our annual get-together is truly reflective of the growth, power, and diversity of the research operation of the College of Medicine. However, it will be the impact of the science shown on each of these posters that will ultimately determine the sustainability of our research program. In addition, researchers are now challenged, perhaps more than ever, to better communicate the relevance and quality of the scientific data generated by our programs. To assist in communicating the impact of our science, the Dean’s Office will continue to build multimedia communication portals to reach out to each other, our colleagues, and our stakeholders worldwide, highlighting the power of the research ongoing at the University of Florida College of Medicine. Over the next year, please help us ‘tell your story’.

Stephen P. Sugrue, PhD
Senior Associate Dean for Research Affairs
UF College of Medicine
Tuesday, February 28, 2017
12:00 noon C1-11, Communicore Building, HSC
“Emerging Therapies for Neurogenetic Diseases”

Beverly L. Davidson, PhD

Dr. Davidson is the Director of The Raymond G. Perelman Center for Cellular and Molecular Therapy, the Chief Scientific Strategy Officer, and holds the Arthur V. Meigs Chair in Pediatrics at Children’s Hospital of Philadelphia. She is also Professor of Pathology and Laboratory Medicine, Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania. Professor Davidson’s research is focused on inherited brain disorders and the development of novel therapies to treat these fatal diseases. She was named an AAAS Fellow in 2007, and in 2009, received the NIH Mathilde Solowey Award, and was named Member, Electorate Nominating Committee, as well as chair, Medical Sciences, AAAS. In 2011, Dr. Davidson was a S.J. Armond Lecturer, AANP, and University of Iowa Presidential Lecturer. In 2012, she was a Carver College of Medicine Faculty Service and Iowa Innovator Awardee. She has served on numerous NIH Study sections, was co-chair of the Editors Panel, Transformative Award Review Committee from the Office of the Director (NIH) and currently serves on Council for NINDS, NIH. She is a member of the Scientific Advisory Board of the Huntington Study Group and the Medical Research Advisory Board of the National Ataxia Foundation, and was awarded the Leslie Gehry Brenner Prize for Innovation in Science in 2015.
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1. An epigenome wide association study on alcohol consumption: A monozygotic twin study. Yun Zhu, Eric Strachan, Emily Fowler, Tamara Bacus, Xinguang Chen, Peter Roy-Byrne, Jinying Zhao

2. The relation between phylogenetic and functional diversity. Luciano Brocchieri

3. TFII-I interacts with E2F transcription factors and regulates their association with the co-occupied CDC27 and Cul5 gene loci. Rukiye Nar, Yong Shen, Alex Xiucheng Fan, Mahmoud Aryan, Mir Hossain, Paul Wassel, Ming Tang, Jianrong Lu, John Strouboulis, Jörg Bungert

4. Functional characterization of a novel enhancer for $\gamma$-globin gene expression using a synthetic zinc finger-DNA binding domain. Yong Shen, Mir Hossain, Rukiye Nar, Shaleen Thakur, Isaac Knudson, Jörg Bungert


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

7. Hedgehog signaling initiates genital tubercle development. Alexandra Carroll, Brooke Armfeild, Martin Cohn

8. Androgen-dependent cell migration in the developing perineum epidermis. Daniel Grunberg, Gabriel Daniels, Erik Feldtmann, Christine Larkins, Martin Cohn

9. Digit development in Anolis sagrei. Griffin McNamara, Bonnie Kircher, Martin Cohn

10. Growing apart: Characterizing the development of sexual dimorphism. Bonnie Kircher, Martin Cohn

12. **SECIMTools: A Galaxy based set of metabolomics data analysis tools.** Miguel Ibarra-Arellano, Alexander Kirpich, Justin Fear, Oleksandr Moskalenko, Matt Thoburn, Joseph Gerken, Xinlei Mi, Ali Ashrafi, Alison Morse, Lauren McIntyre

13. **Comparison of two alternative paradigms in variable selection problem in untargeted metabolomics data analysis.** Alexander Kirpich, George Michailidis, Lauren McIntyre

14. **Genetics of Staphylococcus aureus.** Chelsea DeVaux, Daniel Stribling, Srishtee Aurora, Xiaowen Liang, Nadia Casillas-Ituarte, Magnus Hook, Vance Fowler, Steven Lower, Lauren McIntyre

15. **Integrated experimental design for OMIC studies.** Funda Ogut, Jeremy Newman, Lauren McIntyre


17. **In vivo knock-down of the Herpes Simplex Virus type 1 latency-associated transcript reduces reactivation from latency.** Zachary Watson, Shannan Washington, Dane Phelan, Alfred Lewin, Sonal Tuli, Gregory Schultz, Donna Neumann, David Bloom

18. **Active opening of sliding clamps in three easy steps.** Lauren Douma, Kevin Yu, Anirban Purohit, Jennifer England, Marcia Levitus, Linda Bloom

19. **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, Naohiro Terada, Fowzan Alkuraya, Peter Kang, Christina Pacak

20. **Mitochondrial structural defects in patient-derived fibroblasts in Barth Syndrome.** Manashwi Ramanathan, Katherine Santostefano, Naohiro Terada, Amy Donate, Barry Byrne, W. Todd Cade, Christina Pacak

21. **Pre-clinical studies to develop gene therapy for Barth Syndrome.** Silveli Suzuki-Hatano, Skylar Rizzo, Manashwi Ramanathan, Michael Jones, Katherine Santostefano, Naohiro Terada, Barry Byrne, W. Todd Cade, Peter Kang, Christina Pacak

22. **AAV-MitoTimer to assess mitochondrial turnover in vitro and in vivo.** Bennett Gosiker, Skylar Rizzo, Amy Donate, Christina Pacak
23. AAV mediated gene therapy improves soleus function in a post-hypoxic mouse model of Barth Syndrome. Michael Jones, Skylar Rizzo, Amy Donate, Barry Byrne, Peter Kang, Christina Pacak

24. The common human R71H-G230A-R293Q STING allele influences Pneumovax23 efficacy. Seema Patel, Steven Blaauboer, Heidi Tucker, Samira Mansouri, Lei Jin


26. Activation of Protease-Activated Receptor 2 leads to impairment of keratinocyte differentiation and tight junction integrity. Mason Henehan (MSRP), Peter Nadeau, Anna De Benedetto

27. A histological comparison of ear skin regeneration in Acomys and Mus. Aaron Sandoval, Jason Orr Brant, Malcolm Maden


29. Three-dimensional tracking of cell fate in differentiating MSCs during 740Y-P induced chondrogenesis for cartilage repair. Alfonso Martin-Pena, Glendon Plumton, Margaret Pires-Fernandes, Isaac Adjeai, Kyle Allen, Blanka Sharma, Steven Ghivizzani, Glyn Palmer

30. Enhanced late sodium current predisposes cardiomyocytes from aged guinea pigs to the arrhythmogenic effects of hydrogen peroxide. Yejia Song, Sridharan Rajamani, Luiz Belardinelli

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

32. Peripheral blood cytokine levels after acute myocardial infarction-IL-6-related impairment of bone marrow function: From the NHLBI Cardiovascular Cell Therapy Research Network. Mahan Shahrivari, Elizabeth Wise, Micheline Resende, Jonathan Shuster, Jingnan Zhang, Roberto Bolli, John Cooke, Ray Ebert, Joshua Hare, Timothy Henry, Aisha Khan, Doris Taylor, Jay Traverse, Philip Yang, Carl Pepine, Christopher Cogle

33. Circulating progenitor cells in hypertensive symptomatic women with non-obstructive CAD: From the NHLBI WISE-CVD Project. Mahan Shahrivari, Mark Segal, Arshed Quyyumi, Edmund Waller, Noel Bairey Merz, Carl Pepine
34. Spiny mouse is protected from ischemia induced cardiac injury: Leading role of microRNAs. YanFei Qi, Ruby Goel, Avinash Singh Mandloi, Ravneet Vohra, Glenn Walter, Yarrow Joshua, Tongjun Gu, Michael Katovich, Juan Aranda, Malcolm Maden, Mohan Raizada, Carl Pepine


36. Effects of maternal hypoxia on cardiac development. Olivia Moumne, Rajib Chowdhury, Hideko Kasahara

37. Validation of the HEART pathway for risk identification of major adverse cardiac events in patients presenting atypically for acute coronary syndrome. Jesse Revenis (MSRP), Michael Setteducato, Michael Marchick, Brandon Allen

38. Assessment of the usefulness of the HEART score in predicting outcomes of potentially harmful imaging studies: A retrospective analysis. Michael Setteducato (MSRP), Jesse Revenis, Michael Marchick, Brandon Allen


40. Should Coronary Computed Tomography Angiography be used as the primary method to assess low-risk patients with chest pain? Nicole Ruiz (MSRP), Allana Rodriguez, Matthew Calkins, Henry William Young II, Lars Beattie

41. Evaluation of traditional risk factors in predicting the degree coronary artery stenosis in a low risk population. Allana Rodriguez (MSRP), Matthew Calkins, Nicole Ruiz, Henry William Young II, Lars Beattie

42. BMI as a predictor of coronary artery stenosis in low risk patients. Matthew Calkins (MSRP), Nicole Ruiz, Allana Rodriguez, Henry Young, Lars Beattie

43. Using outpatient medications and comorbidities as predictors of peri-intubation hypotension during ED rapid sequence intubation. Stephanie Winslow (MSRP), Corey Jones, Jayike Nwokolo, Lars Beattie, Michael Marchick
45. Minimally invasive thoracoscopic surgery is an effective approach for inappropriate sinus tachycardia. Seyed Hossein Aalaei Andabili, William Miles, Thomas Burkart, Matthew Mckillop, Juan Garcia, Thomas Beaver

46. The Florida Sleeve procedure is durable and improves aortic valve function. Seyed Hossein Aalaei-Andabili, Tomas Martin, Philip Hess, Charles Klodell, Gregory Janelle, Yong Peng, Kent Berg, Ashkan Karimi, George Arnaoutakis, Thomas Beaver


48. Combining bariatric surgery and left ventricular assist device implantation: A route to heart transplantation for the morbidly obese. Eric Jeng, Caleb Matthews, David Brenneman, Taylor Zak, David Hall, Mustafa Ahmed, Charles Klodell, Thomas Beaver

49. Bursting the balloon: Transcatheter Aortic Valve Replacement (TAVR) without pre-balloon valvuloplasty. John Mayfield (MSRP), Seyed Hossein Aalaei-Andabili, Anthony Bavry, John Petersen, R. David Anderson, Charles Klodell, Teng Lee, Thomas Beaver

50. Cardiac computed tomographic angiography (CTA) as primary decision making tool for management of patients with Tetralogy of Fallot (TOF) and pulmonary atresia (PA). Dipankar Gupta, F. Jay Fricker, Mark Bleiweis, Arun Chandran

51. Inpatient STEMI process improvement. Dhaval Naik, Melinda Phillips, Linda Morris, Vicki Arnett, Karl Brindle, Carla Schmidt, Calvin Choi

52. Same-day discharge after elective percutaneous coronary intervention. Dhaval Naik, Joshua Immergluck, Erik Schneibel, Jose Alvaez-Cardona, Nayan Agarwal, Calvin Choi

53. Same-day discharge after uncomplicated, elective percutaneous coronary intervention. Laura Buchanan (MSRP), Joshua Immergluck, Theresa Wilson, Anthony Bavry, Ki Park, Calvin Choi

55. Appreciating the impact of a trauma induced coagulopathy on fibrinogen structure. Chukwuemeka Runyon, Christopher Giordano, Bruce Spiess

56. Rapid fluid infusion and potential right heart overload: An unlikely stand-alone physical mechanism. Lauren Correa, Joshua Sappenfield, Christopher Giordano

57. Minute ventilation as a frequently unmeasured confounding variable in EtCO2-guided resuscitation. Maria Leinonen, Nikolaus Gravenstein, Christopher Giordano

58. TAVR: A subvalvular surprise. Kevin Olsen, Caleb Awoniyi, J. Christopher Goldstein

59. Undiagnosed hypertension in electronic health records from the OneFlorida data repository. Jay Hogan (MSRP), Rhonda Cooper-DeHoff, Baiming Zou, William Hogan

60. Oversizing donor allografts in lung transplants for end-stage chronic obstructive pulmonary disease. Eric Jeng, David Hall, Jeremy Taylor (MSRP), Jon Gregg, Juan Salgado, Andres Pelaez, Amir Emtiazjoo, Satish Chandrashekar, Charles Klodell, Edward Staples, Thomas Beaver, Tiago Machuca


62. Impact of a pharmacy-cardiology collaborative practice on dofetilide safety monitoring. Lieth Quffa, Michael Kaufmann, Matthew McKillop, Andrew Franck, Mark Panna

63. Hospital volume impact on patient safety indicators and failure to rescue following open abdominal aortic aneurysm repair. Kristina Giles, Paul Kubilis, Christina Crippen, Diego Ayo, Thomas Huber, Martin Back, Javairiah Fatima, Scott Berceli, Adam Beck, Salvatore Scali

64. Outcomes of thoracic endovascular aortic repair using brachiocephalic chimney stents in high risk patients. Igor Voskresensky, Robert Feezor, Javairiah Fatima, Kristina Giles, Rosamaria Tricarico, Scott Berceli, Thomas Huber, Adam Beck, Salvatore Scali
65. Outcomes after thoracic endovascular aortic repair in adult aortic coarctation patients. Salim Lala, Salvatore Scali, Satish Chandrasekhar (MSRP), Kristina Giles, Adam Beck, Javairiah Fatima, Scott Berceli, Thomas Huber, Robert Feezor

66. A study of serum, CSF and urine biomarker in a cohort of thoracic endovascular aortic repair patients. Cui Yang, Gerry Shaw

67. Use of medications that potentially interfere with blood pressure control among patients with resistant hypertension on ≥4 antihypertensive drugs. Andrew Hwang, Chintan Dave, Steven Smith

68. Systematic review of using simulation to teach echocardiography. Justin Merritt, Cecil Rambarat, Erik Black, Hannah Norton, David Winchester

69. Real world use of cardiac troponin levels and the downstream utilization of cardiovascular services. Kristopher Kline, Christopher Estel, Sean Taasen, Jingnan Zhang, Jonathan Shuster, David Winchester

70. Predictors of cardiology consult and cardiac catheterization in patients undergoing troponin testing. Christopher Estel, Kristopher Kline, Sean Taasen, Jingnan Zhang, Jonathan Shuster, David Winchester

71. Just in time Cardiology: Reducing clinic wait times through physician triage of consultations. David Winchester, Don Chapman, Carsten Schmalfuss

72. Prevalence and patterns of care in cardiac troponin superusers. Sean Taasen (MSRP), David Winchester

73. Cytokine profiles in type 1 diabetes vs. healthy controls. Amber Johnson (MSRP), MacKenzie Williams, Clive Wasserfall, Mark Atkinson

74. The peri-islet Schwann cell network and pancreatic ganglia in T1D disease. Elizabeth Butterworth, Kristina Weitzel, Andre Revell, Mark Atkinson, Martha Campbell-Thompson

75. Single islet HLA class I mRNA and protein levels in type 1 diabetes. Elizabeth Butterworth, Ivan Gerling, Nataliya Lenchik, Clayton Mathews, Mark Atkinson, Joseph Canzano, Andre Revell, Martha Campbell-Thompson

76. Endocrine and exocrine microvascular alterations in type 1 diabetes. Joseph Canzano, Elizabeth Butterworth, Andre Revell, Mark Atkinson, Martha Campbell-Thompson

77. 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
78. USP18 is required for HIV-1 infection in a human iPSC-derived macrophage infection model. Jared Taylor, Daniel Aldridge, Melanie Cash, Katherine Santostefano, Lucas Armitage, Naohiro Terada, Mark Wallet

79. Feeding schedule does not appear to play a role on energy homeostasis in rats. Isabelle Cote, Hale Toklu, Nihal Tumer, Philip Scarpace

80. A high fructose, high trans-fat diet induces predisposition to mitochondrial lipotoxicity in an animal model of nonalcoholic fatty liver disease. Kaitlyn Abdo, Srilaxmi Kalavalapalli, Paige Andrews, Nishanth Sunny, Kenneth Cusi

81. Is treatment of nonalcoholic steatohepatitis with pioglitazone equally effective in patients with prediabetes compared to type 2 diabetes (T2DM)? Fernando Bril, Romina Lomonaco, Paola Portillo Sanchez, Beverly Orsak, Joan Hecht, Fermin Tio, Kenneth Cusi

82. Effect of pioglitazone on insulin sensitivity and hepatic mitochondrial function in a mouse model of nonalcoholic steatohepatitis. Srilaxmi Kalavalapalli, Kaitlyn Abdo, Dhanya Jose, Paige Andrews, Nishanth Sunny, Kenneth Cusi


84. Intrapartum vs postpartum metabolomics in serum and urine of diabetic mothers. Anushka Chelliah, Jacquelyn Walejko, Alexis Fohn, Jessica Jackson, Kathryn Patrick, Monique Ho, Arthur Edison, Anthony Gregg

85. A cyclic-AMP dependent pathway regulates intestinal oxalate secretion. Jonathan Whittamore, Marguerite Hatch

86. Renal H,K-ATPase type 2 role in the response to mineralocorticoid excess. Luciana Morla, Oliver Shore, I. Jeanette Lynch, Charles Wingo

87. Vitamin D supplementation does not improve gastric bypass-related bone resorption. Pedro Espino-Grosso, Shahab Bozorgmehri, Anne Schafer, Thomas Carpenter, Benjamin Canales


90. An uncommon cause of lactic acidosis. Cecil Rambarat, Krista Larson, Mark Hankins, Dominique Broutin, Denise Schain

91. Evaluating the quality of mHealth apps for diabetes management. Sarah Chavez, David Fedele, Yi Guo, Megan Smith, Jennifer Warnick, François Modave


93. Summary of the adherence rates of the current published recommendations of the United States Preventative Services Task Force. Anthony Rainho (MSRP), François Modave

94. Prevalence and characterization of retinopathy in children with type 1 diabetes using a non-mydriatic fundus camera. Amanda LaPorte (MSRP), Laura Jacobsen, Chelsea Zimmerman, Brittany Bruggeman, Kristin Dayton, Giovanna Beauchamp, Paul Hiers, Janet Silverstein

95. Two-stage model to study idiopathic calcium oxalate stone formation. Allison O’Kell, Archana Lovett, Benjamin Canales, Laurie Gower, Saeed Khan

96. Hydroxyapatite induces tolerance in primary human monocytes exposed to calcium oxalate crystals. Paul Dominguez-Gutierrez, Benjamin Canales, Sergei Kusmartsev, Saeed Khan


98. Outcomes of persistent acute kidney injury and acute kidney disease in severe sepsis. Tezcan Ozrazgat-Baslanti, Ashkan Ebadi, Zhongkai Wang, Jacob Rubin, Larysa Sautina, Mark Segal, Azra Bihorac

100. Enriching the preoperative predictive models for acute kidney injury using intraoperative data. Shahab Bozorgmehri, Shivam Mittal, Swati Sisodia, Paul Nickerson, Anton Kocheturov, Tezcan Ozrazgat-Baslanti, Ashkan Ebadi, Parisa Rashidi, Azra Bihorac

101. Precision medicine approach to the prediction of kidney stone formation for at-risk population of individuals admitted to the emergency room. Zhaoyi Chen, Mattia Prosperi, Victoria Bird

102. Ultra-sensitive colorimetric detection of nitrite ions based on the aggregation of gold nanoparticles. Aniruddha Kulkarni, Kirk Ziegler, Victoria Bird

103. Compliance and barriers in care in recurrent kidney stone formers. Elizabeth Kwenda, Zhaoyi Chen, Mattia Prosperi, Victoria Bird


106. Frequency of Vitamin D deficiency and insufficiency in kidney stone formers: Comparison between pre/post menopausal women and male cohorts. Babatunde Carew (MSRP), Zhaoyi Chen, Vincent Bird, Mattia Prosperi, Victoria Bird


108. Colorimetric, pH-responsive polyvinyl chloride membranes allow for immediate, real-time detection, and reversible urine pH monitoring as part of multisystem detection of urease producing bacteria. Neal Patel, Madeline Fuchs, Cory French, Hammad Huda, Victoria Bird


110. The effect of continued aspirin therapy in patients undergoing percutaneous nephrostolithotomy. Brandon Otto, Forat Lufti, Mohit Gupta, Russell Terry, Vincent Bird
111. Targeting hepatocyte, but not macrophage, to treat iron-overload mediated hepatic inflammation. Min Li, Yuxiao Tang, Lusha Wu, Fengfeng Mo, Xin Wang, Hongxia Li, Ruirui Qi, Hongwei Zhang, Arun Srivastava, Chen Ling

112. Analysis of the outpatient use of opioids for treatment of pain in patients with ESRD (End Stage Renal Disease) on chronic HD (hemodialysis). Rupam Ruchi, Xuerong Wen, Mark Segal, Saraswathi Gopal, Sanjeev Kumar

113. Factors shaping CKD awareness among university nephrology patients. Emma Segal (MSRP), Colin Hinkamp, Xuerong Wen, Ashutosh Shukla

114. Development of squamous cell carcinoma of buccal mucosa graft used for urethroplasty: A case report. Paula Domino, Jong Kim, Lawrence Yeung

115. Surgical complications in gynecologic oncology patients over the age of 70. Jacqueline Castagno, Callie Jewett (MSRP)

116. Uterine fibroids: Clinical impact, current medical and surgical therapies and the potential role of insulin like growth factor binding protein 5 (IGF-BP5). Cyra Cottrell (MSRP), Gregory Christman

117. Evaluation of a PCR-based gastrointestinal panel at UF Health Shands Hospital. Elizabeth Tremblay, Kenneth Rand, Stacy Beal

118. Impact of insurance and economic status on care for pyloric stenosis. Kelly Herremans, Avital Yohann, Janice Taylor, Shawn Larson, Dan Solomon, Saleem Islam

119. Predictive biomarkers of weight loss response and glycemic control following Roux-en-Y Gastric Bypass: Results of an ongoing cohort study. Lida Esfandiary (MSRP), Eric Sheu, Ali Tavakkoli


121. Global polio eradication: Rational design of a non-infectious poliovirus VLP vaccine. Joan Morasco, Sushma Ogram, William Zeile, Justin Kurian, Robert McKenna, James Flanegan
122. Development of molecular genetic tools and a mouse model for analysis of Oxalobacter formigenes as a probiotic to prevent hyperoxaluria and kidney stone disease. Chinn Le, Mary Ellen Davey, Katie Heisel, Hannah Wolcott, Paul Gulig

123. High throughput screen for AmpG inhibitors. Hao Tan, Guangtao Huang, Deanna Collia, Timothy Spicer, Louis Scampavia, Taimour Langaee, Shouguang Jin

124. The role of norovirus VP2 in suppressing maturation of antigen presenting cells. Alexa Roth, Katrina Grau, Shu Zhu, Stephanie Karst

125. Potential reservoirs of replicating HIV-1 found in patients who died with no detectable viral load while on effective drug regimens. Phillip Hahn, Sierra Leete, Patricia Rodriguez, James Dollar, David Nolan, Rebecca Rose, Susanna Lamers, Michael McGrath, Marco Salemi

126. Identifying HIV integration sites in HIV positive patients on cART. Sierra Leete, James Dollar, David Nolan, Susanna Lamers, Michael McGrath, Marco Salemi


129. Evolutionary inferences of the contribution of monocytes to SIV population dynamics and the relationship between monocyte subpopulations and neuroAIDS development. Brittany Rife, Cameron Browne, David Nolan, Susanna Lamers, Patrick Autissier, Kenneth Williams, Tricia Burdo, Marco Salemi

130. Whole genome sequencing of Florida Zika isolates indicates multiple introductions and concurrent local transmission networks. David Nolan, Carla Mavian, Taylor Paisie, James Jarad Dollar, Brittany Rife, Carina Blackmore, Andrew Cannons, Ilaria Capua, Marco Salemi

131. Comparative transcriptomic analysis of frontal lobe tissue from SIV-infected rhesus macaques with detectable SIV in the brain. James Jarad Dollar, David Nolan, Carla Mavian, Brittany Rife, David Moraga Amador, Mattia Prosperi, Marco Salemi

132. Recent diversification of Neisseria meningitidis serogroup W135 in Florida. Patricia Rodriguez, Phillip Hahn, Sierra Leete, David Nolan, Marta Fogolari, Eleonora Cellia, Taj Azarian, Marie-Claire Rowlinson, Paul Fiorella, Scott Pritchard, Marco Salemi
133. Molecular epidemiology of toxigenic V. cholerae O1 in Haiti: Strain movement between clinical and environmental sources. Taj Azarian, Carla Mavian, David Nolan, Afsar Ali, Meer Alam, J. Glenn Morris, Marco Salemi

134. Spatiotemporal evolution and recombination of Mayaro virus isolates collected over 60 years in the Americas: The dawn of a new epidemic? Carla Mavian, Brittany Rife, James Jarad Dollar, Eleonora Cella, Massimo Ciccozzi, Mattia Prosperi, J. Glenn Morris, Ilaria Capua, Marco Salemi

135. Protocol for whole surface detection of bacterial biofilms on explanted orthopedic hardware. Alessandra Della Porta, QingPing Yang, Daniel Gibson

136. Antimicrobial stewardship of Clostridium difficile: Quality improvement analysis of PCR versus GDH and toxin testing. Nicole Iovine, John Delano, Nicole Hilliard, Scot Brown, Cindy Prins, Mayanka Singh

137. Taurodilin in high molecular weight hyaluronic acid prevents formation of Pseudomonas aeruginosa biofilm on pig skin explants. Gregory Schultz, Qingping Yang, Daniel Gibson

138. Combination therapy with Hepatitis C virus (HCV) NS3/4A protease (MK-6325) and NS5A (MK-8325) inhibitors maximally suppress a genotype 1b replicon and prevents resistant mutants. Justin Pomeroy, Jaime Rodriquez, Lin Liu, Gary Wang, George Drusano, Ashley Brown

139. Sofosbuvir (SOF) prevents the amplification of Ledipasvir (LDV) resistant mutants during SOF/LDV combination therapy against a genotype 1b Hepatitis C virus (HCV) replicon. Jaime Rodriquez, George Drusano, Lin Liu, Gary Wang, Michael Neely, Ashley Brown

140. Evaluating the therapeutic potential of interferon-α and ribavirin as combination therapy against dengue virus. Camilly Pires de Mello, George Drusano, Justin Pomeroy, Evelyn Franco, Jaime Rodriquez, Ashley Brown

141. Incidence of central venous catheter hub contamination. Julie Holroyd, Terrie Vasilopoulos, Kenneth Rand, Mark Rice, Brenda Fahy

142. Management of infected infrainguinal vascular bypass grafts: A retrospective analysis. Kerry Caputo (MSRP), Salvatore Scali, eagan Ross, Kristina Giles, Scott Berceli, Matthew Robinson, Baiming Zou, Thomas Huber, Javairiah Fatima
143. Prevalence and correlates of latent tuberculosis treatment completion in Florida, 2009-2016. Marie Hanna (MSRP), Livia Sura, Nancy Seraphin, Michael Lauzardo

144. Risk factors associated with poor outcomes in children with Wilms tumors in the Dominican Republic: A retrospective chart review. Rachel Butts (MSRP), Marie Séraphin, Margarita Montero, Wendy Gómez García, Michael Lauzardo


146. Relationship between bacteriology report time in the morning and length of stay in hospital after the report. Stacy Beal, Gigi Lipori, Kenneth Rand

147. Easy transmission of Staphylococcus epidermidis through commonly used non-sterile overhead isolation gowns. Abigail Schirmer, Renard Sessions, Nikolaus Gravenstein, Kenneth Rand, Monika Oli, Lou Ann Cooper, Joshua Sappenfield


149. Epidemiology of Madariaga encephalitis and Venezuelan equine encephalitis virus in Darien, Panama. Susan Zhang (MSRP), Liang Mao, Amy Vittor

150. Δ9-Tetrahydrocannabinol inhibits Transforming Growth Factor β1 induced pro-fibrotic and nociceptive gene expression and stimulates Interleukin 1β mRNA expression in human intestinal myofibroblasts. Christopher Broxson, Ellen Zimmermann

151. A stem cell tactic to address precision medicine in hypertension. Natalie Fredette, Katherine Santostefano, Nihal El Rouby, Julie Johnson, Naohiro Terada

152. Costimulatory molecule CD226 impacts lymphocyte frequency and CD8+ T cell function during type 1 diabetes. Wen-I Yeh, Howard Seay, Brittney Newby, Clayton Mathews, Todd Brusko
153. An elevated T1D genetic risk score is associated with early age of diagnosis. Daniel Perry, Clive Wasserfall, Michael Haller, Desmond Schatz, Mark Atkinson, Todd Brusko


155. Innate cytokines enhance natural killer cell and auto-reactive CD8+ T cell activity. Joseph Dean, Brittney Newby, Caridad Infante, Howie Seay, Todd Brusko

156. Metabolic inhibitors eliminate the expansion of autoimmune follicular helper T cells but not that induced by T-dependent-immunization in lupus mice. Seung-Chul Choi, Anton Titov, Laurence Morel


158. Antagonism of YAP1 induced Ctgf transcription by HNF4α controls liver regenerative response following carbon tetrachloride intoxication and chronic ethanol feeding in mice. Junmei Zhou, Adam Bria, Dan Gibson, Gregory Schultz, Bryon Petersen, Liya Pi

159. Intestinal stem cell cultures as a tool to study the effect of the microbiome on necrotizing enterocolitis. Oleksandr Kudin, Michael Dougherty, Christian Jobin, Josef Neu, Marcus Mühlbauer


161. The type 1 diabetes-protective rs5979785 SNP is associated with an altered innate immune response to TLR7 and TLR8 ligation. MacKenzie Williams, Clive Wasserfall, Mark Atkinson

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387. Opioid system and restless legs syndrome: A knockout mouse approach to elucidate its role. Fangfang Jiang, Mark DeAndrade, Shangru Lyu, Yuqing Li

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406. Chemokine based immunobiotherapeutics in SOD1G93A model of ALS. Michael Strickland, Xuefei Liu, Mariya Yaroshenko, David Borchelt, Paramita Chakrabarty


408. CNS cell type specific AAV and capsid combinations and their utility as tools for studying the nervous system and neurodegenerative diseases. Van Truong, Pedro Cruz, Carolina Ceballos-Diaz, Devin Galin, Laura Londono, Kimberly Menezes, Amanda Hernandez, Sydney Modrow, Ziqi Wang, Phong Truong, Eva Rostronic, Thomas Delgado, Chun-Rung Chen, Andrea Ollarves, Hunter Futch, Maria Parianos, Yona Levites, Paramita Chakrabarty, Todd Golde

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467. **The temporospatial role of microcirculatory dysfunction in the prediction of ischemia or infarction in patients with aneurysmal subarachnoid hemorrhages.** Arelys Zamora (MSRP), Avigeet Gupta, John Sousa, Jenna Leclerc, Sylvain Doré
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474. Magnetic field measurement using MRI: Study of magnetic susceptibility anisotropy in white matter. Guita Banan, Thomas Mareci

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483. Investigating the utility of mice as a model for developing clinically relevant dual AAV vectors to treat USH1B. Kaitlyn Calabro, Sanford Boye, Kevin McCullough, Shreyasi Choudhury, Paul Gamlin, Shannon Boye

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493. **Deletion of mitochondrial antioxidant enzyme Sod2 induces light-dependent retinal degeneration with aging.** Emily Brown, Caroline Wright, Alfred Lewin, John Ash

494. **Conditional knockout of PGC-1β causes dramatic sensitivity to light stress.** Casey Keuthan, Cassidy Chason, John Ash

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496. **Comparison of murine intestinal ACE2 activities following oral administration of genetically engineered probiotic strains expressing human ACE2.** Zhibing Liang, Qiuhong Li

497. **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

498. **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

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