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
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
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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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 γ-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


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


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

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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

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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


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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 Alvarez-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. Chukwumeka Runyon, Christopher Giordano, Bruce Spiess

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

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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


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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
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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 Taassan, Jingnan Zhang, Jonathan Shuster, David Winchester

70. Predictors of cardiology consult and cardiac catheterization in patients undergoing troponin testing. Christopher Estel, Kristopher Kline, Sean Taasan, 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 Taasan (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

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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


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

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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

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137. Tauralidine 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 Rodriguez, Lin Liu, Gary Wang, George Drusano, Ashley Brown

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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

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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

162. Targeted extracellular indoleamine 2,3-Dioxygenase modulates immune responses in vivo. Fernanda Rocha, Kyulim Lee, Andrea Delitto, Evelyn Bracho-Sanchez, Gregory Hudalla, Benjamin Keselowsky, Shannon Wallet

163. Dysregulated viral sensing by intestinal epithelial cells derived from non-obese diabetic mice. Gavin Golas, Melissa Lapato, Heather Sorenson, Shannon Wallet
164. Predictors of surgical site infection following mesh repair of acutely incarcerated ventral and groin hernias. Tyler Loftus, Kristina Go, Janeen Jordan, Chasen Croft, Stephen Smith, Frederick Moore, Philip Efron, Alicia Mohr, Scott Brakenridge

165. Persistent inflammation immunosuppression and catabolism syndrome in chronically critically ill surgical patients following sepsis. Julie Stortz, Juan Mira, Steven Raymond, Tyler Loftus, Alicia Mohr, Philip Efron, Lyle Moldawer, Frederick Moore, Scott Brakenridge


168. Incorporation of patient reported outcomes data in the care of US veterans with rheumatoid arthritis. Emily Haltigan (MSRP), Ann Chauffe, Reuben Judd, Michael Bubb

169. Soluble antigens in plasma allow mismatched transfusion without hemolysis. James Sikora, Faisal Mukhtar, Joseph Pelletier

170. Role of Calpastatin in autophagy and mitochondrial function during ischemia/reperfusion injury in young and aged livers. Joseph Flores-Toro, Sooyeon Lee, Catherine Miney, Sung-Kook Chun, Joseph Dean, Ming-Jim Yang, Christiaan Leeuwenburgh, Ivan Zendejas, Kevin Behrns, Jae-Sung Kim

171. Mitofusin-2 deacetylation by Sirtuin-1 mitigates ischemia/reperfusion injury in aged livers. Sooyeon Lee, Joseph Flores-Toro, Rebecca U, Sung Kook Chun, Ming-Jim Yang, Thomas Biel, Catherine Miney, Brian Law, Mary Law, Kevin Behrns, Jae-Sung Kim

172. Persistent injury-associated anemia: The role of the bone marrow microenvironment. Jessica Millar (MSRP), Kolenkode Kannan, Tyler Loftus, Ines Alamo, Jessica Plazas, Philip Efron, Alicia Mohr

173. Age-specific transcriptomic response to sepsis. Steven Raymond, Juan Mira, Julie Stortz, Jaimar Rincon, María Cecilia López, Henry Baker, Shawn Larson, Timothy Sweeney, Purvesh Khatri, Lyle Moldawer, James Wynn

175. Improved survival in neonatal sepsis following alum pretreatment is independent of neutrophils. Jaimar Rincon, Steven Raymond, Angela Cuenca, Dina Nacionales, Lyle Moldawer, Shawn Larson

176. Alveolar macrophage expression of an iron induced “unrestrained” pro-inflammatory activation pattern in idiopathic pulmonary fibrosis. Jungnam Lee, Ivan Arisi, Carmen Swaisgood, Massimo Amicosante, Ermanno Puxeddu, Mark Brantly, Cesare Saltini

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177. G-protein coupled receptor kinase promotes the epithelial–mesenchymal transition in prostate cancer. Joseph Black, Hamsa Thayele Purayil, Iqbal Mahmud, Yehia Daaka

178. β-arrestin1 promotes EMT and prostate cancer progression by regulating smad3 expression. Hamsa Thayele Purayil, Yehia Daaka

179. β-arrestin 2 mediates tumor growth and metastasis in renal cell carcinoma. Jude Masannat, Yushan Zhang, Hamsa Purayil, Yehia Daaka

180. Impact of hypoxia on SFK activities in prostate cancer cells. Jessica Lewis, Dietmar Siemann, Yao Dai

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

182. Stress-induced lineage reprogramming of osteosarcoma stem cells: A potential link between the development of intra-tumor heterogeneity and suppression of anti-tumor immunity. C. Parker Gibbs, Steven Ghivizzani, Padraic Levings

183. Death Domain Associated Protein (DAXX) regulates a distinct lipid metabolism signature in breast cancer. Iqbal Mahmud, Timothy Garrett, Daiqing Liao

184. Mechanisms of adrenocortical cell differentiation and cancer development. Sergei Tevosian, Hans Ghayee

185. Multifocal hepatocellular carcinoma with features suggestive of intrahepatic metastases. Yanfei Huang, Xiuli Liu, Ashwini Esnakula
186. Exosomal delivery of stroma derived miR-145 inhibits pancreatic cancer cell proliferation. Song Han, DongYu Zhang, Mark Beveridge, Jose Trevino, Steven Hughes


188. Studies on CRTC1 protein stability as a mechanism underlying the therapeutic effect of aspirin. Chunxia Cao, Zichao Zhang, Min Zhang, Yue Jiang, Zirong Chen, Michael Calderon, Jonathan Katz, Lizi Wu, Maria Zajac-Kaye, Frederic Kaye


190. A mutation in the core of histone H2B represents a new class of oncogenic drivers. Richard Bennett, Christine Will, Eliza Small, Jon Oyer, Aditya Bele, Behnam Nabet, Alberto Riva, Adrian Grzybowski, Raja Ghosh, Tao Yu, Qiao Zhang, Greta Bauer, Vadim Backman, Alex Ruthenburg, Jon Lifhardt, George Shatz, Tanmay Lele, Jonathan Licht


195. A primate herpesvirus uses the host Integrator complex to generate viral microRNAs. Mingyi Xie, Demian Cazalla, Wei Zhang, Mei-di Shu, Acer Xu, Diana Lenis, Daniel DiMaio, Joan Steitz

197. TS overexpression promotes genomic instability and tumor progression in Ink4a/Arf null background. Lidia Kulemina, Min Chen, Akbar Nawab, Patrick Kellish, Daniel Shabashvili, Frederic Kaye, Maria Zajac-Kaye


199. Epigenetic intervention sensitizes cancer cells to gamma irradiation. Steven Zhang, Zhenhuan Zhang, Chaomei Liu, Steve Swarts, Paul Okunieff

200. PA1 downregulation sensitizes radiation-induced tumor cell suppression in vitro. Zhenhuan Zhang, Mei Zhang, Steven Zhang, Liangjie Yin, Chaomei Liu, Katherine Casey-Sawicki, Reshu Gupta, Sadasivan Vidyasagar, Lurong Zhang, Steven Swarts, Paul Okunieff

201. A comparative genomics approach to understanding the control of cell context dependent p53 binding. Varsha Sundaresan, Ying Li, Benedetto DiCiaccio, Victor Lin, Lei Zhou

202. Increased NCR- ILC3 may be indicative for the early development of spontaneous colitis in the IL-10 knockout mouse. Ying Tang, Jian Li, Andria Doty, Jillian Pope, Ye Yang, Christian Jobin, Sarah Glover

203. Treatment with anakinra induces T cell production of IL22 and GI mucosal healing in an IL-10RA mutation patient. Jian Li, Dror Shouval, Andria Doty, Scott Snapper, Sarah Glover

204. Evaluating clinical utility of actionable genomic alterations identified by comprehensive genomic profiling in advanced or recurrent solid tumors: A tertiary academic hospital review. Danielle Harrell, Elham Nasri, Jong Kim, John Reith


206. FLT3 ITD mutations downregulate MLLT3 in acute myeloid leukemia. Stephan Jahn, Matthew Smonskey, Petr Starostik

208. Dietary effects on glycosaminoglycan storage in MPS IIIB. Joseph DeCosmo, Alexander McNally, Elizabeth Gordon, Priya Shil, Lingbao Ai, Coy Heldermon


210. Metabolic vulnerability revealed in slow-cycling glioma stem cells. Lan Hoang-Minh, Nicholas Andrews, Kyle Dajac, Michael Schmoll, Krisha Amin, Alvin Vuong, Jianping Huang, Changlin Yang, Timothy Garrett, Matthew Sarkisian, Brent Reynolds, Loic Deleyrolle

211. Selective inhibition of HDAC6 prevents glioblastoma growth. Lan Hoang-Minh, Loic Deleyrolle, Annie Tonnu, Nari Nakamura, Brent Reynolds, Matthew Sarkisian

212. CD70-A novel target of CAR-T-cell therapy for gliomas. Linchun Jin, Haitao Ge, Changlin Yang, Yu Long, Yifan Chang, Luyan Mu, Elias Sayour, Gabriel De Leon, Qiong Wang, James Yang, Jeffrey Drake, Paul Kubilis, Hongbo Bao, Songsong Xia, Dunyue Lu, Yingjun Kong, Li Hu, Yibo Yin, Yujiao Shang, Chencheng Jiang, Jing Nie, Shimin Li, Jiping Qi, Yunhe Gu, Jiahang Sun, Zhiguo Lin, Duane Mitchell, Jianping Huang

213. Enhanced T cell activation using dendritic cells pulsed with chimeric RNAs encoding full-length LAMP-1 fusion constructs. Changlin Yang, Anjelika Dechkovskaia, Jeffery Drake, Fernanda Guimaraes, Paul Kubilis, Jianping Huang, Duane Mitchell

214. Quantitative tracking of T-cell clones after adoptive cellular therapy targeting recurrent medulloblastoma using massively parallel RNA sequencing technology. Oleg Yegorov, Yanina Yegorova, Anjelika Dechkovskaia, Marcia Hodik, Jianping Huang, Elias Sayour, Sridharan Gururangan, Duane Mitchell

215. Disulfide bond disrupting agents are novel anticancer agents that activate the unfolded protein response. Mengxiong Wang, Renan Ferreira, Mary Law, Bradley Davis, Coy Heldermon, Ronald Castellano, Brian Law

216. Discovery of LLM4 as potent and specific IL-6/gp130 protein-protein interaction inhibitor for potential cancer therapy. Liguang Mao, Guqin Shi, Chenglong Li
217. Xanthone derivatives: Inhibition of cancer cell growth and enhancement of radiation sensitivity. Chaomei Liu, Mei Zhang, Zhenhuan Zhang, Steven Zhang, Shanmin Yang, Steven Swarts, Lurong Zhang, Paul Okunieff

218. HGF stimulates ligand-independent activation of Axl. Mai Tanaka, Dietmar Siemann

219. The small molecule Cathepsin L and K inhibitor KGP94 impairs the tumor microenvironment-mediated metastatic phenotype of osteosarcoma. Henrietta Fasanya, Dietmar Siemann


221. Hepatocyte Growth Factor increases sensitivity of c-Met inhibitor-resistant tumor cells. Veronica Hughes, Dietmar Siemann

222. Characterization and therapeutic insight into chemotherapy-resistant human AML stem-like cells. Bowen Yan, Haoli Li, Suming Huang, Yi Qiu

223. Chimeric antigen receptor T-cell therapy of differentiated thyroid cancer. Kartik Motwani (MSRP), Nicola Weyers, Christopher Wendler, Lung-Ji Chang, Scott Rivkees

224. Targeting the leukemia microenvironment with a novel combretastatin-based combination therapy. Raphael Bosse, Amy Meacham, Leylah Drusbosky, Christopher Cogle


226. Computing myocardial circumferential strains in pre and post radiation treatment in left-sided breast cancer patients. Shruti Siva Kumar, Alexandria Waler, Julie Bradley, Christopher Klassen, Walter O’Dell

227. Anatomic modeling and visualization of the kidney and its associated major vessels in patients with kidney cancer. Sneh Parekh, Li-Ming Su, Walter O’Dell

228. Validation of sizing of pulmonary vessels from 3D medical images. Anne Gormaley, David Prida, Shruti Siva Kumar, Walter O’Dell
229. A predictive algorithm for the administration of novel therapeutic cancer agents. Stephanie Socias (MSRP), Brent Reynolds

230. Dosimetric comparison of breast boost contribution to composite breast dose in the setting of oncoplastic reconstruction. Laura Bochner (MSRP), Emma Viviers, Xing Shen, Michael Rutenberg, Nancy Mendenhall, Julie Bradley


232. Characterizing the locations and social characteristics of hotspots of oral and pharyngeal cancer incidence in Florida. Jaclyn Hall, Yi Guo, Ramzi Salloum, Elizabeth Shenkman

233. Intrafractional displacement of cardiac substructures among patients with Hodgkin lymphoma or lung cancer. Lidia Guzhva (MSRP), Stella Flampouri, Bradford Hoppe

234. Quality improvement in ileostomy patients after implementation of ileostomy-specific novel protocols. Herman Peters, Ilya Sakharuk, Lisa Cunningham, Lindsey Goldstein, Steven Hughes, Sanda Tan, Atif Iqbal

235. Development of a prediction model for re-admission after ileostomy creation in colorectal surgery patients. Ilya Sakharuk (MSRP), Herman Peters, Lindsey Goldstein, Steven Hughes, Sanda Tan, Atif Iqbal

236. Validation of a preoperative, prognostic model for prediction of morbidity during pelvic dissection. Atif Iqbal, Maia Tinder (MSRP), Kristina Go, Nathan Burriss, Alim Esemenli, Lindsey Goldstein, Steven Hughes, Sanda Tan

237. Limbic encephalitis as a presentation of a second primary malignancy. Kanita Beba, Amir Besharat, Jorge Trejo-Lopez, Irene Malaty

238. Quality improvement for cervical cancer screening by using health maintenance tables. Suellen Romero de Mello Sa (MSRP), Lazarus Mramba, Maryam Sattari

239. Metastatic lesions in lung and brain due to Nocardia endocarditis septic emboli. Krista Larson, Cecil Rambarat, Denise Schain

240. Palliative chemotherapy and travel distance impacts hospice referral in patients with stage IV pancreatic cancer. Jennifer Duff, Ryan Thomas
241. Alcohol consumption, adjuvant hormone therapy and adverse breast cancer-related outcomes. Allison Kowalski, Catherine Striley, Deepthi Varma, Kathleen Egan, Lusine Yaghjyan

242. Buckling down on torus fractures: Has evolving evidence affected our practice? Brendan Williams, Cesar Alvarado (MSRP), Diana Montoya-Williams, Robert Matthias, Laurel Blakemore

243. Creating a Rural Veterans Health Care Atlas. Justin Ahern, Eric Litt, Lauren Wilson, Diane Cowper Ripley

244. Using geographic information systems and spatial analysis to study extremely frequent emergency department users. Andrew Hallmark (MSRP), Jaclyn Hall, Chris Delcher, NaiIah Horne


246. Air fresh gas flows below patient minute ventilation cause rebreathing and hypoxia. Derek O’Hara, David Lizdas, Nikolaus Gravenstein, Samsun Lampotang

247. Assessing the reliability of the Short Form 12 (SF-12) health survey in adults with mental health conditions: A report from The Wellness Incentive and Navigation (WIN) study. Tianyao Huo, Yi Guo, Elizabeth Shenkman, Keith Muller

248. Evaluation of the cytotoxicity of the new quinolone ear drop Otovel® in tympanic membrane fibroblasts. Sonny Redula, Patrick Antonelli, Carolyn Dirain

249. Prevention of chlorhexidine ototoxicity with poloxamer. Taylor Vasquez, Patrick Antonelli, Sonny Redula, Brendan Kosko, Carolyn Dirain

250. Effects of commonly used ear drops on tympanic membrane perforation healing. Brendan Kosko, Patrick Antonelli, Sonny Redula, Taylor Vazquez, Carolyn Dirain

252. Validation of Samsung Gear S smartwatch in actigraphy and energy expenditure estimation. Anis Davoudi, Matin Kheirkhahan, Sanjay Nair, Sanjay Ranka, Todd Manini, Parisa Rashidi

253. Etiology of osteoradionecrosis in patients who have undergone fibula free flap transplant surgery. Jacob Ludin (MSRP), Stewart Bernard, Raja Sawhney


255. Factors influencing patient follow-up after pelvic floor surgery. Lauren Lynch, Hanna Peterson (MSRP), Emily Weber LeBrun

256. Factors influencing patient follow-up after pelvic floor surgery. Lauren Lynch (MSRP), Hanna Peterson, Emily Weber LeBrun

257. Anesthetic management of combined cesarean section/hysterectomy: A case series. Stefanie Vallancourt, Adam Wendling

258. Concurrent intraoperative uterine rupture and placenta accreta: Do preoperative chronic hypertension, preterm premature rupture of membranes, chorioamnionitis and placental abruption provide warning to this rare occurrence? A case report. M. Anthony Cometa, Scott Wasilko, Adam Wendling

259. Near-miss hyperkalemic arrest during orthotopic liver transplant. Eric Brown, Hemant Joshi, Jeffrey White

260. Intraoperative management during orthotopic liver transplantation in a patient with a history of severe portopulmonary hypertension and coronary artery disease. Brendan Inouye, Tiffany Kuo, Jeffrey White

261. Epidemiological trends in sports-related elbow ulnar collateral ligament injury. Jason Zaremski, JoAnna McClelland, Heather Vincent, Kevin Farmer, Daniel Herman, Michael Moser, Bryan Prine, Michael Seth Smith, Kevin Vincent, MaryBeth Horodyski

262. Use of an online immunization registry in the pediatric emergency department to confirm tetanus vaccinations as up to date with injuries requiring tetanus vaccination in children who present to the emergency department. Janelle McCall, Hac-Tu Chung, Phyllis Hendry, Todd Wylie, Colleen Kalynch, Christina Zeretzke-Bien

263. Does timing of non-cardiac interventions affect outcome in children with congenital heart disease? Kristina Weitzel (MSRP), Joseph Philip, Dalia Lopez-Colon, Mark Bleiweis, Saleem Islam


266. Post-frenotomy care for breastfeeding infants. Samantha Nastasi (MSRP), Rebeccah Mercado, Lindsay Thompson, Mary Ryangaert

267. Access to pediatric orthopaedic care for children with operative supracondylar humerus fractures in northern California. Mikela Padilla (MSRP), Coleen Sabatini, Bonnie Mason

268. Simplified ACEs screening identifies risk for childhood emotional, mental, and behavioral problems. Lindsay Thompson, Stephanie Filipp, Rebeccah Mercado, Andrew Barnes, Melissa Bright, Elizabeth Shenkman, Matthew Gurka

269. A novel approach to obtaining adolescents’ perspectives on the long-acting reversible contraceptive Nexplanon. Nazokat Usmanova (MSRP), Lindsay Thompson, Thomas Martinko, Ratna Acharya, Rebeccah Mercado

270. Early antibiotic exposure and risk for pediatric obesity in latinos. Annette Ville, Janet Wojcicki

271. Extended brain death impairs outcomes in swine lung transplantation. David Hall, David Holden, Joshua Pickering, Eduardo Fontena, Mark Martin, Thomas Beaver, Lyle Moldawer, Mark Gillespie, Tiago Machuca


273. Intention versus action: barriers to screening for adverse childhood experiences in pediatric practice. Sama Ilyas (MSRP), Melissa Bright

274. Limitations of an electronic health record in transgender care for children. Amanda Hicks, Jeffrey Ferrell, Rebeccah Mercado, Kristin Dayton, Corey Gallet de St. Aurin, Lindsay Thompson, Stephanie Ryan, Anyaliese Hancock-Smith, Janet Silverstein

275. Semi-automatic mapping of WordNet to Basic Formal Ontology. Selja Seppälä, Amanda Hicks, Alan Ruttenberg


278. The neuroanatomy of reproduction: A visual guide with clinical correlations. Alice Rhoton-Vlasak, Albert Rhoton Jr, Margaret Barry, Alexander Vlasak (MSRP)

279. An animated multimedia educational web app may enhance knowledge acquisition at diagnosis of diabetes. Leora Lieberman (MSRP), David Fedele, Alexis Perry, Megan Smith, Sarah Chavez, Jennifer Warnick, Yi Guo, Francois Modave, Angelina Bernier

280. The effects of mindfulness meditation on the health and wellbeing of medical students: A systematic review. Gerald Richardson (MSRP), Ana Puig, Lou Ann Cooper

281. Examining host factors in student service learning trips. Tashana Haye (MSRP), Elizabeth DeVos

282. Patient and family satisfaction with a single consent for planned serial procedures. Terrie Vasilopoulos, Sue Ford, Kayser Enneking, Brenda Fahy

283. The role of the Equal Access Clinic on UF Health Shands emergency department utilization. David Feller, Austin Reed, Martin Wegman, Gabriel Daniels (MSRP)

284. Sugammadex Approval: An anesthesiology-led patient safety initiative implementation process, guidelines for cost-effective use, and resultant impact from June to October 2016. Angela Fugate, Scott Wasilko, J. Christopher Goldstein

285. Farm made medicine: Assessing the effectiveness of a novel patient-centered care model. Laura Price (MSRP), Saul Batista, Asha Gala, Ron Weiss

286. New avenues for CRC screening in uninsured populations. Dylan Rudolph (MSRP), James Grigg
287. Map the gap: Connecting communities and resources. Sarah O’Connor (MSRP), Zech Brooke, Aiman Sajjad, Meron Hirpa, Omar Iqbal, Nancy Hardt

288. Outcomes of supracondylar/intercondylar femoral fractures in adults: A retrospective chart review. Goeto Dantes (MSRP), Anthony Harris, Bonnie Mason

289. Integrated tutor facilitating curriculum training with a mixed reality simulator for thoracic epidural and thoracic paravertebral blocks. Megan Zimmerman, David Lizdas, Kaizad Avari, Samsun Lampotang, Barys Ihnatsenka

290. Melanoma and Parkinson’s disease: A critical appraisal. Kathryn Anne Potter, M. Isabel Longo


292. Shoulder arthroplasty outcomes after anterior stabilization procedures: Do reverses have better results? Maharsh Patel, William Stone, Aimee Struk, Kevin Farmer, Thomas Wright, Joseph King

293. A map for SLAPs: How are outcomes measured for superior labral tears of the shoulder. Ralph Michel (MSRP), Brendan Williams, Gregory LaChaud, Kevin Farmer, Joseph King

294. V-MART: Virtual environments and virtual humans for military mTBI and PTSD: An interim report. Charles Levy, Michael Marsiske, Benjamin Lok, Shivashankar Halan, Michael Borish, David Miller, Christiana Akande, Keith Myers, Erin Silverman

295. Rural Veteran’s Telerehabilitation Initiative – Creative Arts Therapy Project (RVTRI-CAT) remote delivery of creative arts therapy to rural veterans. Heather Spooner, Jenny Baxley Lee, Keith Myers, Jill Sonke, Charles Levy

296. Ultrasound measurements of the thoracic paravertebral and intercostal spaces. Linda Le-Wendling, Phillip Mills, Barys Ihnatsenka

297. Examination of shock indices as a screening measure for post intubation hypotension following rapid sequence intubation in select case settings. Corey Jones (MSRP), Stephanie Winslow, Michael Marchick, Lars Beattie

298. Facelift practice evolution: Objective implementation of new surgical techniques. Danielle Mihora (MSRP), Patrick Buchanan, Bruce Mast
299. Medical student stress and burnout. Shelby Goicochea (MSRP), Lisa Merlo

300. Utilizing community based organization (CBO) mapping in the academic medical setting: Addressing social determinants of health within the patient centered medical home (PCMH) model. Andrea Sanchez (MSRP), Cooper Kersey, Maria De Miguel

301. A clinical workflow study to improve implementation of a health information technology system. Natalie Rich (MSRP), Esaa Samarah, Lindsay Thompson, Elizabeth Shenkman, Michael Muszynski, Stephanie Staras

302. Researching the effectiveness of HIV awareness videos. Tisha Van Pelt (MSRP), Nina Stoyan-Rosenzweig

303. 5 East clinical quality improvement project: Do descriptive picture boards help patients in understanding their physician care team? Lisa Cunningham, Sanda Tan

304. Empowering health improvement for chronically-ill Medicaid enrollees: Net monetary benefits of the Wellness Incentive Navigation program. Bruce Vogel, Keith Muller, Tianyao Huo, Dorothy Mwachiro, Aditi Patel, Elizabeth Shenkman


306. Effects of high-load resistance exercise or low-load resistance exercise combined with blood-flow restriction on skeletal muscle strength, lean body mass and serum markers of muscle hypertrophy among older adults with knee osteoarthritis. Andrew Layne, Stephen Anton, Paul Borsa, Stephen Borst, Thomas Buford

307. Investigating the relationship between LESS and its components with running biomechanical parameters. Christopher Massengill (MSRP), Andrew Harris, Cong Chen, Trevor Leavitt, Heather Vincent, Daniel Herman

308. The effect of visual and auditory attention tasks on running biomechanical and metabolic performance. Daniel Herman, Andrew Harris (MSRP), Christopher Massengill, Cong Chen, Trevor Leavitt, Heather Vincent

309. The structural rearrangements in myosin that actin triggers to generate force and movement. H. Lee Sweeney, Anne Houdusse
310. The structure and function of myosin X and a possible role in muscle. H. Lee Sweeney, Anne Houdusse, Zhaohui Yang, Virginie Ropars, Tianming Lin, Melissa Merscham, David Hammers

311. Supraphysiological levels of GDF11 induce striated muscle atrophy. David Hammers, Melissa Merscham, Jennifer Hsiao, Stefan Engst, James Hartman, H. Lee Sweeney

312. Disease modifying effects of orally bioavailable NF-κB inhibitors in dystrophin-deficient muscle. David Hammers, Margaret Sleeper, Sean Forbes, Cora Coker, Michael Jirousek, Michael Zimmer, Glenn Walter, H. Lee Sweeney

313. Methods in imaging and quantification of skeletal muscle fibrosis associated with severe muscular dystrophy. Cora Coker, David Hammers, Elisabeth Barton, H. Lee Sweeney

314. Optogenetic stimulation to enhance neuromuscular performance. Bhuvna Mahajan, Lauren Duncanson, Lauren Vaught, Gary Todd, Darin Falk


316. Correlating Deep Brain Stimulation (DBS) lead placement with clinical outcomes using a novel non-linear deformable neuroanatomic atlas. Cristhian Valor (MSRP), Kelly Foote


318. Long-term follow-up of impedance drift and variability in STN, GPi and VIM deep brain stimulation. Joshua Wong, Jonathan Shute, Robert Eisinger, Stephanie Cernera, Kwo Wei David Ho, Daniel Martinez-Ramirez, Leonardo Almeida, Aysegul Gunduz, Christina Wilson, Michael Okun, Christopher Hess


320. Comparing the effectiveness of various recruitment methods for a treatment outcome study in hoarding disorder. Anna Martin, Jessica Zakrzewski, Carol Mathews

321. Delayed onset of Horner Syndrome after a stellate ganglion block. Manish Shah, Shawn Hughes, Rene Przkora
322. Conus meullaris neuromodulation and spinal cord stimulation as a treatment for pudendal neuralgia and FBSS. Yu ning Hsu, Galaxy Li, Rene Przkora

323. Fluoroscopically-guided epidural blood patch for spontaneous intracranial hypotension. Manish Shah, Rene Przkora

324. Long-term treatment of chronic non-malignant pain with opioids: Cure or curse? Tyler Kabes, Timothy Vollmer, Rene Przkora

325. Supraorbital nerve stimulation for postherpetic neuralgia: A case report. Timothy Vollmer, Egle Bavry

326. Combined effects of rTMS and botulinum toxin therapy in benign essential blepharospasm. Wei Hu, Joseph Legacy, Wissam Deeb, Aparna Wagle Shukla

327. Techniques to ensure accurate targeting for MRI guided laser ablation. Dimitri Laurent, Frank Bova, Didier Rajon, Rachel Freeman, Maryam Rahman

328. TMZ results in priming of host immunity and changes in GBM tumor PDL-1 expression in a dose dependent fashion that can be leveraged for combination with immune checkpoint blockade. Aida Karachi, Farhad Dastmalchi, Hassan Azari, Catherine Flores, Changlin Yang, Duane Mitchell, Maryam Rahman

329. Effect of the dependent coverage provision of the Affordable Care Act on neurosurgical patients. Matthew Decker, Paul Kubilis, Maryam Rahman


331. Effectiveness of Deep Brain Stimulation (DBS) in mice with Spinocerebellar Ataxia (SCA1). Sara Kurtovic, Riken Nathu, Karen McFarland, Qianru Zhang, Tetsuo Ashizawa, Michael Okun, Vinata Vedam-Mai

332. Investigating the lipidomic signature of Spinocerebellar Ataxia (SCA1) using a liquid-microjunction surface sampling probe. Megan Marks, Emily Gill, Richard Yost, Timothy Garrett, Vinata Vedam-Mai

333. Arl13b localization and function in the olfactory system. Jordan Moretta, Warren Green, Jeremy McIntyre, Jeffrey Martens
334. Sniffing the wind of changes: Sense of smell and mechanical sensitivity in an animal model of human BBS1 and IFT88 ciliopathy. Kirill Ukhanov, Cedric Uytingco, Lian Zhang, Jeffrey Martens

335. Restoration of olfactory epithelium ciliation and odorant detection in BBS4 loss-of-function model of Bardet-Biedl syndrome. Cedric Uytingco, Corey Williams, Warren Green, Dana Shively, Lian Zhang, Val Sheffield, Jeffrey Martens

336. Gene therapeutic rescue of olfactory function, synaptic organization, and behavior in a model of anosmia. Warren Green, Cedric Uytingco, Kirill Ukhanov, Jeremy McIntyre, Jeffrey Martens

337. Regional and age-related analysis of cilia patterning within the olfactory epithelium. Dana Shively, Cedric Uytingco, Corey Williams, Kirill Ukhanov, Lian Zhang, Jeffrey Martens

338. Developmental abnormalities in rodents, initiated by a relatively short exposure to etomidate anesthesia, can be exacerbated by post-exposure stressful environmental factors. Ling-Sha Ju, Jiao-Jiao Yang, Chunyao Yang, Jinhui Xue, Andrea Allen, Kimberley Guice, Andres Gonzalez, Baofeng Yang, Jie Wang, Nikolaus Gravenstein, Christoph Seubert, Timothy Morey, Anatoly Martynyuk

339. Associations between fasting blood glucose and pain sensitivity in adults with chronic knee pain. Federlin Jean, Lazaro Tejera, John Marks, Andreas Keil, Roland Staud, Roger Fillingim, Kimberly Sibille

340. Evaluating electrocortical responses to positive affect activation in individuals with chronic knee pain. Jeffrey Schmidt, Harold Rocha, John Marks, Adam Woods, Roland Staud, Roger Fillingim, Andreas Keil, Kimberly Sibille


342. A rat model of dual task performance in the elderly. Sonora Williams (MSRP), Abbi Hernandez, Keila Campos, Leah Truckenbrod, Lindsay Santacroce, Andrew Maurer, Sara Burke

343. Age-related object discrimination deficits are associated with lateral entorhinal cortical dysfunction. Jordan Reasor (MSRP), Daniela Cossio, Jack-Morgan Mizell, Kaeli Fertal, Sarah Johnson, Jeffrey Leibowitz, Brandi Ormerod, Andrew Maurer, Sara Burke
344. Associations of musculoskeletal pain with mobility in older adults: potential cerebral mechanisms. Yenisel Cruz-Almeida, Andrea Rosso, Tamara Harris, Zachary Marcum, Anne Newman, Michael Nevitt, Suzanne Satterfield, Kristine Yaffe, Caterina Rosano

345. Physical performance profiles in community-dwelling individuals at risk for knee osteoarthritis. Yenisel Cruz-Almeida, Josue Cardoso, Joseph Riley III, Kimberly Sibille, Emily Bartley, Megan Petrov, Burel Goodin, Christopher King, Matthew Herbert, Adriana Addison, Roland Staud, David Redden, Lawrence Bradley, Roger Fillingim

346. Up-regulation of GluN2B type NMDA receptor in CA1 region of hippocampus and its influence on cognitive and synaptic function. Constantine Kyritsopoulos, Ashok Kumar, Thomas Foster

347. Systemic inflammation influences cognitive function and cytokines over the lifespan. Jolie Barter, Ashok Kumar, Asha Rani, Thomas Foster

348. Epigenetic regulation of medial prefrontal cortex transcription associated with aging and impaired executive function. Lara Ianov, Alberto Riva, Thomas Foster

349. Targeting and managing behavioral symptoms in veterans with dementia: A randomized trial of a non-pharmacological intervention. William Mann, Paul Arthur, Sam Wu, Laura Gitlin

350. The orbitofrontal cortex and hippocampus contribute to dynamic inter-temporal choice. Jack-Morgan Mizell, Huzaifa Wasanwala, Deandra Chetram, Margaret Ann Kreher, Sara Rukmini Garcia-Sosa, Sarah Johnson, Sara Burke, Andrew Maurer

351. Age alters the neurophysiological effects of moderate alcohol in simulated driving. Ben Lewis, Jeff Boissonneault, Ian Frazier, Sara Jo Nixon


353. Characterizing generalized anxiety among individuals receiving treatment for alcohol and substance use disorders. Lisa Domenico, Ben Lewis, Mythili Hazarika, Sara Jo Nixon

355. Effects of Gsta4 deficiency on age-related hearing loss in mice. Hyo-Jin Park, Chul Han, Mi-Jung Kim, Karessa White, Maria Ticsa, Isabela Caicedo, Senthilvelan Manohar, Dalian Ding, Paul Linser, Richard Salvi, Shinichi Someya


360. Relationship between brain reward function and nicotine intake in an intermittent extended access paradigm in rats. Jean Geste, Darin Jagnarine, Brandon Levin, Isaac Wilks, Laura O’Dell, Adriaan Bruijnzeel

361. Functional Imaging of brain activity after MDPV exposure with MEMRI. Isabel Mor, Luis Colon-Perez, Marjory Pompilus, Marcelo Febo

362. Repeated administration of the designer cathinone and bath salt drug MDPV produces a pro-inflammatory state. Marjory Pompilus, Ty Redler, Tao Yang, Luis Colon-Perez, Christopher Martyniuk, Jasenka Zubcevic, Marcelo Febo

363. Increased limbic connectivity strength and impaired social interaction, recognition memory, and ultrasonic vocalizations, 24 hours after single MDPV exposure. Luis Colon-Perez, Jose Pino-Reyes, Kaustuv Saha, Marjory Pompilus, Sherman Kaplitz, Nafisa Choudhury, Darin Jagnarine, Jean Geste Roussel, Adriaan Bruijnzeel, Barry Setlow, Habibeh Khoshboeui, Gonzalo Torres, Marcelo Febo

364. In vivo structural abnormalities and increased free water in mice showing increased Abeta42 accumulation. Luis Colon-Perez, Kristin Torroella, Yona Levites, Paramita Chakrabarty, Todd Golde, Marcelo Febo

365. Cracking the betel nut: Links between betel quid use and nicotine addiction. Clare Stokes, Marta Quadri, Nicole Horenstein, Roger Papke

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366. The medial prefrontal cortex is critical for the flexibility necessary for adaptive risky decision-making. Caitlin Orsini, Sara Heshmati, Shannon Wall, Jennifer Bizon, Barry Setlow

367. Differential effects of D2 and D3 dopamine receptor ligands on risky decision-making. Shelby Blaes, Caitlin Orsini, Megan Spurrell, Jennifer Bizon, Barry Setlow

368. Role of Gβγ subunits in amphetamine-stimulated behavior and increase in extracellular dopamine. Sharonda Harris, Jose Pino, Jocelyn Mauna, Mabel Terminel, Edward Castaneda, Edda Thiels, Gonzalo Torres


370. The role of gut microbiota in the susceptibility of Parkinson’s disease development. Dimitri Koutzoumis, Jose Pino, Sharonda Harris, Marisol Quiroz, Mansour Mohamadzadeh, Gonzalo Torres

371. Piloting neuropsychological device research in an addiction treatment facility. Benjamin Phalin, Joseph McNamara, Andrew Guzick, Maria Bolshakova, Megan McBride, Dana Mason, Lisa Merlo Greene, Regina Bussing

372. Housing status, alcohol consumption and adherence to antiretroviral therapy among people living with HIV in Florida. Jordan See (MSRP), Ezekiel Ojewale, Joseph Sacht, Cheick Sissoko, Zhi Zhou, Gladys Ibanez, Lisa Agate, Christa Cook, Robert Cook

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