Cover photo courtesy of Darin Falk and A. Gary Todd, UF Powell Gene Therapy Center
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
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?** Sudesha 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

15. **Quantifying neuromuscular activation in older adults: A comparison of methodological techniques.** Dana Otzel, Roger Fielding, Carolynn Patten, Kieran Reid, Edward Phillips, 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


20. **Effects of blood flow restriction on biomarkers of myogenesis in response to resistance exercise.** Andrew Layne, Kelly Larkin-Kaiser, R. Gavin MacNeil, Marvin Dirain, Bhanuprasad Sandesar, Todd Manini, Thomas Buford

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
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 Sujjitjoon, 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 Ferraguti, 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 Gavriloyna, 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


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


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. Leeana Peters, Howard Seay, Wen-I Yeh, 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

INFECTIONOUS 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 Admar, Marco Salemi

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

154. Mapping HIV integration sites using the ISLA assay. Samuel Maruniak, Andrew McAvoy, James Jarad Dollar, David Nolan, Rebecca Rose, Susanna Lamers, Michael McGrath, Marco Salemi

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, Mutasim 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

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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

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170. **Development of a novel rat model of polymicrobial peri-implantitis.** Theofilos Koutouzis, Christie Eastman, Sasanka Chukkapalli, Hannu Larjava, Lakshmyya Kesavalu

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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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, Shiuy 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

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207. Liver specific depletion of mitochondrial ATP transporter enhances uncoupled respiration and prevents fatty liver and obesity. Joonseok Cho, Yujian Zhang, Nishanth E Sunny, Jae-Sung Kim, Takayuki Shiratsuchi, S. Paul Oh, Young Jae Lee, Naohiro Terada

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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

226. Inflammatory pre-conditioning limits alpha-synuclein seeding and transmission in wild type mice. Paramita Chakrabarty, Emily Koller, Mieu Brooks, Vincent Hudson III, Awilda Rosario, Todd Golde, Benoit Giasson

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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

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

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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

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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

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


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

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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

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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
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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

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

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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

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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

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


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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


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

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350. Using pre-Rapid Sequence Intubation Shock Index as a predictor of post-intubation hypotension, mortality, and duration of intubation. Adam Koby, Jayike, Nwokolo, Amanda Horn, Benjamin Banapoor, Michael Marchick, Lars Beattie

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353. Validation of the ACS NSQIP risk calculator in neurosurgical patients. Tyler Carney, Jake Wilson, Joe Abbettemateo, Sasha Vaziri, Daniel Hoh


355. Retrospective chart review investigating the efficacy of the VBAC calculator in predicting success of women at UF who undergo a trial of labor after c-section. Girard Cua, Daniel Gibson, Erich Wyckoff

356. RAHMA Mercy Clinic – a Safety Net Clinic for our community. Livia Sura, Yasmin Islam, Haider Ali, Asad Haroon, Ghazal Farajzadeh, Ryneth Sok, Geoffrey Panjeton, Omar Iqbal, Mustafa Ahmed

357. Thinking like a scientist: Teaching for cognitive skills in a classroom setting – Teaching methods and course evaluation. Kristina Michaudet, Haley Carpenter, Mary Jo Koroly, Lou Ann Cooper

358. Thinking like a scientist: Teaching for cognitive skills in a classroom setting - Core concepts. Haley Carpenter, Kristina Michaudet, Mary Jo Koroly, Lou Ann Cooper

359. Syringe pump performance maintained with intravenous filter usage during low flow rate delivery for pediatric patients. Destiny Chau, Terrie Vasilopoulos, Miriam Schoepf, Christina Zhang, Brenda Fahy

360. Near infrared optical imaging identifies muscular dystrophy. Stephen Chrzanowski, Brittany Lee-McMullen, Abhinandan Batra, Sean Forbes, Krista Vandenborne, Elisabeth Barton, Glenn Walter

361. Crack/cocaine use and future criminal re-offenses among females in a therapeutic justice program. Abena Acheampong, Sonam Lasopa, Catherine Striley, Catina O'Leary, Linda Cottler

362. Risk factors for prescription opioid misuse by duration of misuse. Vicki Osborne, Sonam Lasopa, Catherine Striley, Linda Cottler

363. Gender differences in patterns of prescription opioid use and binge drinking among middle aged Floridians. Mirsada Serdarevic, Linda Cottler

364. Agar ultrasound phantoms for low-cost training without refrigeration. Matthew Earle, Giuliano De Portu, Elizabeth DeVos

366. Use of electronic cigarettes among cancer survivors. Ramzi Salloum, Kayla Getz, Thomas George, Elizabeth Shenkman

367. Evaluation of postoperative seizures following supratentorial tumor resection – A quality initiative. Will Carlton, Gregory Murad

368. Use of LP simulators in medical education. Anindita Chakraborty, Frank Bova, Kristopher Hooten, Gregory Murad

369. Complications following autologous bone flap storage for cranioplasty: A comparative analysis of the literature. Timothy Gooldy, Brian Corliss, Sasha Vaziri, Gregory Murad

370. Nuchal thickness and risk of surgical site infection after posterior cervical spine surgery. Dennis Timothy Lockney, Timothy Gooldy, Gregory Murad

371. System-level postcards increase adolescent HPV vaccine initiation and well visits. Stephanie Staras, Susan Vadaparampil, Lindsay Thompson, Elizabeth Shenkman

372. Age moderates association between pre-existing psychological illness and inpatient outcomes for orthopedic trauma patients. Terrie Vasilopoulos, MaryBeth Horodyski, Laura Zdziarski, Kalia Sadasivan, Heather Vincent

373. Stone size at initial presentation at a tertiary care center: Demographics. Marla Wardenburg, Jeanette Brown, Babatunde Carew, Rupam Ruchi, Vincent Bird, Xuerong Wen, Victoria Bird


377. GATOR Kidney Risk Score. Ashkan Ebadi, Anis Davoudi, Paul Thottakkara, Tezcan Ozrazgat-Baslanti, Parisa Rashidi, Azra Bihorac


379. Preoperative enteral access is not requisite for patients undergoing neoadjuvant chemoradiation prior to esophagectomy for malignant disease. Thomas Jenkins, Alexandra Lopez, Ryan Thomas

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


382. Improving informed consent to participate in cancer research: An experimental comparison of metaphorical and plain language messages. Jordan Neil, Yulia Strekalova, Janice Krieger

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384. GI endoscopy insufflating gas pressure: How regulated is the regulator? Alberto Bursian, Nikolaus Gravenstein, Peter Draganov, Jeffrey White

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386. Early trajectories of alcohol and other substance use among youth from rural communities within the Cherokee Nation. Sarah Lynne-Landsman, Kelli Komro, Misty Boyd, Terrence Kominsky, Brady Garrett, Mildred Maldonado-Molina
387. Computational system for tracking organ doses in pediatric cardiac catheterizations. Emily Marshall, David Borrego, Wesley Bolch, James Fudge

388. Measuring arterial stiffness in children with type 1 diabetes who have received or not received rapid acting insulin for a mixed meal using applanation tonometry. Jordan Ashcraft, Colette Meehan, Pooja Kethireddy, Michael Haller

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391. Age and fertility: A study on patient awareness. Sara Deatsman, Terrie Vasilopoulos, Alice Rhoton-Vlasak


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394. What really interrupts cardiopulmonary resuscitation in an out of hospital cardiac arrest? Ousama Aboushaar, Ryan Brown

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

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406. Screening adolescent health literacy using the newest vital sign health literacy screener. Alicia Guerrero, Rebecca Mercado, Lindsay Thompson

407. Understanding the financial impact of obesity in the Emergency Department. Brandon Burns, De-Vaughn Williams, Matthew Ryan

408. Disparities in the ED between race, gender, and age groups correlated to BMI. De-Vaughn Williams, Brandon Burns, Matthew Ryan

409. Unrecognized co-morbidities among chronic pain patients attending inner-city family medicine residency pain clinic. Jeffrey Costain, Courtney Jones, George Samraj, Helen Hagan, Lesa Gilbert, Alyson Listhaus, Siegfried Schmidt

410. Toward clinical decision support for chronic pain: Integrating patient reported outcomes in an electronic health record. Christopher Harle, Siegfried Schmidt, Jonathan Shuster, Sean Mackey, Alyson Listhaus, Lilliana Bell, Constanza Covarrubias, TaJuana Chisholm, Roger Fillingim, Robert Hurley
411. Establishing a pain management program within a university based family medicine residency. Siegfried Schmidt, Lesa Gilbert, Ku-Lang Chang, George Samraj, Alyson Listhaus

412. Exploring career ambivalence in US medical students. Monica Hill, Lisa Merlo

413. Effects of adverse childhood experiences on cortisol awakening response in children. Andre Alexander, Melissa Bright

414. Birth outcomes as predictors of ACEs in the first two years of life. Melissa Bright, Annalicia Burns

415. “There’s just not enough time.” Screening for ACEs in pediatric practice. Anna West, Melissa Bright


417. Development and validation of an instrument to measure collaborative goal setting in the care of patients with diabetes. Heather Morris, Levent Dumenci, Jennifer Elston Lafata

418. Identifying features of photoplethysmography and heart rate variability unique to preeclamptic patients. Elizabeth Bisbee, Tammy Euliano

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421. The incidence of in-hospital mortality in patients with post-intubation hypotension (PIH) and an assessment of the effect of vasopressor therapy in the management of patients with PIH. Benjamin Banapoor, Amanda Horn, Adam Koby, Jayike Nwokolo, Michael Marchick, Lars Beattie

422. Impact of cardiovascular comorbidities and outpatient medications on the development of hypotension following rapid sequence intubation. Jayike Nwokolo, Amanda Horn, Adam Koby, Benjamin Banapoor, Michael Marchick, Lars Beattie

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424. **Prevalence of non-communicable diseases in rural Haiti.** Linsday Crompton, Stuart Malcolm, Joane Cadet, Meagan Kelly, James Grigg, Vince DeGennaro

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427. **Inappropriate use of myocardial perfusion imaging in women: Predictors and results of testing.** Ali Alsamarah, Asha Bansari, Hesham Nasser, Wajiha Raz, David Winchester

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429. **Portrayal of inappropriate use of myocardial perfusion imaging on social media and the worldwide web.** Diana Baxter, Rebecca Beyth, David Winchester

430. **Risks of radiation use in cardiovascular imaging.** Daniel Cordiner, David Winchester

431. **Patient and provider opinions about the appropriateness of myocardial perfusion imaging: Comparison to published appropriate use criteria.** Kristopher Kline, Jared Plumb, Linda Nguyen, Tianyao Huo, Rebecca Beyth, David Winchester

432. **Impact of simulation based training for transesophageal echocardiography.** David Winchester, Anita Wokhlu, Carsten Schmalfuss

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

434. **Even re-operative aortic arch replacement has low mortality in elective setting.** Seyed Hossein Aalaei-Andabili, Charles Klodell, Teng Lee, Thomas Zeyl, Philip Hess, Tomas Martin, Thomas Beaver

436. The fate of donor hearts rejected for transplant: A single institutional experience. Caleb Matthews, David Hall, Juan Aranda, Mustafa Ahmed, James Hill, Anita Szady, Juan Vilaro, Charles Klodell, Thomas Beaver


438. The association between college football games and genital herpes diagnoses among university students: An analysis of 9 years of electronic medical records. Jacob Ball, Sheldon Waugh, Guy Nicolette, Xinguang Chen, Travis Gerke

439. Excellence in practice: Building a sustainable emergency department Sexual Assault Nurse Examiner (SANE) program. Cristina Zeretzke-Bien, Jennifer LaLonde

440. Diversity in the medical profession. Vanessa Billingsley, Paul Madsen

441. An adolescent male with altered mental status. Erin Garrigan, Elizabeth Plasencia, Molly Posa, Maria Kelly

442. High-fidelity uterine simulation aid for teaching ultrasound-guided procedures. Susan Dalton, Monique Ho


444. Altered resting state functional connectivity is correlated with fatigue and pain in patients with chronic fatigue syndrome. Jeff Boissoneault, Janelle Letzen, Andrew O’Shea, Song Lai, Mike Robinson, Roland Staud

446. Porcine tri-layer wound matrix for the treatment of stage IV pressure ulcers. Paula Beers, Cheri Adgerson, Susan Millan

447. The impact of health literacy and socio-economic status on quality of life and disease awareness in CKD patients: An observational clinical study. Colin Hinkamp, Emma Segal, Xuerong Wen, Ashutosh Shukla

448. Decrease in functional brain connectivity following orthopedic surgery. Haiqing Huang, Peter Nguyen, Jared Tanner, Nadine Schwab, Hari Parvataneni, Mark Rice, Ilona Schmalfuss, Ann Horgas, Thomas Mareci, Catherine Price, Mingzhou Ding

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455. The influence of strength on jump landing biomechanics during maturation in females – implications for ACL injury risk and prevention. Daniel Herman, Giorgio Negron, Kyle Fallgatter, Heather Vincent

456. Ankle bracing effects on lower extremity biomechanics during a drop-cutting task. Giorgio Negron, Cong Chen, Kyle Fallgatter, Heather Vincent, Daniel Herman

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


459. Pitching injury prevalence in collegiate baseball pitchers based on geographic location of high school baseball participation: A multi-centered study. Jason Zaremski, Laura Ann Zdziarski, Brian Krabak, Mark Dundas, Kenneth Mautner, John Dunham, Paul Wolkoff, Mederic Hall, Andrew Papendieck, MaryBeth Horodyski

460. Decreasing morbidity and mortality in adolescent sports through increased early recognition via educational symposia. Jason Zaremski, JoAnna McCelland, M. Seth Smith, Bryan Prine, MaryBeth Horodyski

461. Assessment of athletic trainers’ communication skills in the orthopaedic trauma hospital setting. Laura Zdziarski, Heather Vincent, Kalia Sadasivan, Terrie Vasilopoulos, MaryBeth Horodyski


463. Clinical predictors for optimal functional outcomes in primary reverse total shoulder arthroplasty. David Sollaccio, Aimee Struk, Kevin Farmer, Thomas Wright

464. Reverse total shoulder arthroplasty in wheelchair dependent patients. Adam Kemp, Thomas Wright

465. Effects of increasing or decreasing metabolic, cardiopulmonary and biomechanical responses during downhill running. Kevin Vincent, Trevor Leavitt, Laura Ann Zdziarski, Cong Chen, Dan Herman, JoAnna McClelland, Joseph Wasser, MaryBeth Horodyski, Jason Zaremski, Heather Vincent