

*NOTE: There are 20 abstracts (identified by gray numbers throughout) that will not be presented as posters because the students representing them are not participating in this year's KUH meeting.*



## Abstracts

- 1. The Expression and Purification of Monoclonal Antibodies Using Expi293F™ Cells to Evaluate Viral Peptide Antigen Specificity**  
Nadine Abazie; Gwen Jordaan; Ivelin Georgiev
- 2. CD154:CD11b Blockade Increases Activation and Survival of CD8<sup>+</sup> T Cells During Viral Infection**  
Ferris Abu-Ghosh; Katie Alexander, B.S.; and Mandy L. Ford, Ph.D.
- 3. Single-cell Spatial Metabolomics Reveals Proximal Tubule Cell-specific Adenine Accumulation in Diabetic Kidney Disease**  
Sophia Adame; Soumya Maity, Ph.D.; Ian Tamayo, M.S.; Kumar Sharma, M.D.
- 4. Techniques for Measuring the Effects of Renal Denervation in a Model of Polycystic Kidney Disease**  
Mason A. Adams; Madeline M. Gauthier; Mark N. Morales; Christopher T. Banek, Ph.D.
- 5. Exploring the Genomic Rearrangements in Transformed RPTECS in 2D and 3D Culture**  
Marisa Albarran; Rashmi Dahiya, Ph.D.; Peter Ly, Ph.D.
- 6. Microbiome-derived Peptide Nanoparticles with Therapeutic Potential for Hyperoxaluria, Hyperoxalemia, and Related Kidney Stones**  
Karnavaal Al-Rubayie; Gaurav Baranwal, Ph.D.<sup>3</sup>; Marina Subramaniam, Ph.D.; Ananta Arukha, Ph.D.; Michael F. Romero, Ph.D.; Hassan Hatim, M.D., Ph.D.
- 7. Mechanisms of  $\alpha$ -Parvin in DNA Repair during Kidney Ureteric Bud Branching Morphogenesis**  
Hugo Arce-Santamaria; Xinyu Dong; Roy Zent
- 8. Single-Cell RNA Sequencing Analysis of Human and Mouse CKD Models**  
Oluwamayowa Awosika; Leyuan Xu, Ph.D.
- 9. A Role for Urearetics in Limiting Fibrosis in a UO Mouse Model**  
Bayraktar, Baran; Hassounah, Faten; Griffiths, Pearl; Farris, Alton, M.D.; Sands, Jeff, M.D.; Klein, Janet Ph.D.
- 10. Urine-derived Stem Cells Detect Renal Mitochondrial Toxicity in HIV Patients Receiving Antiretroviral Therapy**  
Daniella Beiner, Pengfei Yu, Hainan Zhu, Carol Christine Bosholm, Luis F. Barroso, Yuanyuan Zhang

11. **Male Urethral Simulator**  
Brevyn Belfield; Manikantam G. Gaddam, Ph.D; Kunj Sheth, M.D.
12. **Establishing an Organoid Model for Renal Cell Carcinoma**  
Meera Bhakta; Phoebe Carter; Thomas Carroll, Ph.D.
13. **Non-antibiotic Treatments of Urinary Tract Infections**  
Jonathan Braithwaite; Shailja Mehta, M.D.; Stephen Maher, M.S.; Adam B. Hittelman, M.D., Ph.D.; Darryl T. Martin, Ph.D.
14. **Antifibrotics as a Novel Treatment for Benign Prostatic Hyperplasia**  
Anna A. Brooks; William A. Ricke, Ph.D.; Teresa T. Liu, Ph.D.
15. **Study of the Group and Phase Velocities of Mouse Kidneys Using Noninvasive Shear Wave Elastography**  
Sarah Bulur; Luiz Vasconcelos, Ph.D.; Yuqi Wang, Ph.D.; Matthew Urban, Ph.D.
16. **Lack of ET<sub>A</sub> Receptor on T Cells Minimizes Renal Inflammation during Type 1 Diabetes**  
María A. Cabrera Echevarría; Sara Biswal, M.S.; Carmen De Miguel Ph.D., M.S.
17. **Treatment of Depression in Patients with Chronic Kidney Disease**  
E.Q. Carroll; M. McAdams, M.D.; T. Carmody, Ph.D.; M. Trivedi, M.D.; S.S. Hedayati, M.D., M.Sc.; Hedayati Lab, UT Southwestern
18. **TMEM94 Haploinsufficiency Limits ER Mg<sup>2+</sup> Uptake and Perturbs Ca<sup>2+</sup> Cycling in Cardiomyocytes**  
Adhishree Chidambaram; Neelanjan Vishnu, Ph.D.; Manigandan Venkatesan, Ph.D.; Travis Madaris, B.S.; Muniswamy Madesh, Ph.D.
19. **Alternative Splicing in PKD1 Leads to Premature Stop Codon**  
Soyoung Cho; Zhigui Li, Ph.D.; Zi Guo, M.D. Ph.D.; Michael Rehman, Ph.D.; Xin Tian, Ph.D.; Whitney Besse, M.D.
20. **Hepatocyte-specific Bmal1-deletion Leads to Increased Vascular Stiffness and Aortic Wall Fibrosis in Male Mice**  
Robert Combs, Jackson Colson, Telisha Millender-Swain, Shannon M. Bailey, Jennifer S. Pollock, Paramita Pati
21. **The Impact of Sickle Cell Disease on the Glomerulus and Kidney Function**  
Lauren Copenhaver; Earl Fields, M.P.H.; David Archer, Ph.D.
22. **Investigating Lithium's Effect on Renal Stromal Activation to Form a Fibrotic Phenotype**  
Aaron Coppeta; Shayan Gholizadeh, Ph.D.; Cody Gifford, Ph.D.; Luan Le; Joseph Bonventre, M.D., Ph.D.
23. **OAT1 and OAT3 Are Potential Transport Proteins for Glycerol-3-Phosphate in the Kidney**  
Meghan Crowther; Onica L. Washington, M.D., Ph.D.; Petra Simic, M.D., Ph.D.; Han Xie; Xavier Vela Parada, M.D.; Eugene P. Rhee, M.D.

24. **Generation and Identification of IFT139 and IFT43-Knockout IMCD Cell Lines by CRISPR/Cas9**  
Denisse Romero Cruz; Dan Colombo, B.S.; Peter G. Czarnecki, M.D.
25. **Ultrasound-based Computational Fluid Dynamics Assessment of the Brachial Artery**  
Darshigaa Gurumoorthy; Juan Pablo Gonzalez-Pereira; Jenna Racine; J. Igor Irugetagoyena; Alejandro Roldán-Alzate
26. **The Role of Epithelial Plasticity in Pancreatic Tumorigenesis**  
JoAnna Dennis; Sergey Ivanov; Kathleen DelGiorno
27. **pHire: A Novel Red, Intracellular, Fluorescent pH Sensor**  
Kate Desrochers; Heather Holmes; Shannon Holmberg; Orestes Foresto Neto, Ph.D.; Michael F. Romero, Ph.D.
28. **Super-Structural Organization of Collagen IV Scaffold in Kidneys**  
Jennifer Diaz Sales; Sergei P. Boudko
29. **Can Bacteria Promote Calcium Oxalate Stone Formation?**  
Jeffrey K. Doeve; Daniel Massana Roquero, Ph.D.; Grace H. Holton, B.S.; Kathleen Mach, Ph.D.; Joseph C. Liao, M.D.
30. **Magnesium Ion Dynamics Modulate Hypoxia-induced Acute Kidney Injury in Mouse Kidney Tissue**  
Deron A. Dwomo-Bediako; Manigandan Venkatesan, Ph.D.; Adhishree Chidambaram; Wei-Wei Wang; Kang Li, Ph.D.; Madesh Muniswamy, Ph.D.; William B. Reeves, M.D.
31. **Baseline Characteristics & Domain-specific Cognition among Participants in a Randomized Controlled Trial Comparing Behavioral to Drug Therapy for Urinary Symptoms in Parkinson Disease**  
Tatiana Eason; Camille P. Vaughan, M.D., M.S.
32. **Denatured Collagen as a Potential Early Biomarker of Autosomal Dominant Polycystic Kidney Disease (ADPKD)**  
Seth Entriken; Damon Montgomery; Caroline R. Sussman, Ph.D.
33. **CD8 T Cells and Kidney Damage in Diet-induced Obese Mice**  
Erickson, John D.; Claudia J. Edell; Jackson Colson; Jennifer S. Pollock, Ph.D.
34. **Primary Isolation of Cells in the Loop of Henle Using a Novel Fluorescent Reporter**  
Madeleine Felan; Bryanna Felan, B.S.; Sunhee Oh, M.S.; Denise Marciano, M.D., Ph.D.
35. **Analyzing the Role of Oncolytic Viruses in the Treatment of Bladder Cancer**  
Coryn Ferguson; Velia Penza, Ph.D.; Caitlin Preusser; William Reiser; Shruthi Naik, Ph.D.
36. **Uncovering the Role of Ciliary ARL13B in Proliferation and Signaling in Suppressed Polycystic Kidney Disease Mouse Models**  
Avery Forster; Robert Van Sciver, Ph.D.; Tamara Caspary, Ph.D.
37. **Role of *PSMB5* in Kidney Cancer Metastasis**  
Julian Garcia; Kangsan Kim, Ph.D.; Srinivas Malladi, Ph.D.

38. **Repeatability and Optimization of Noninvasive Imaging to Characterize Tissue Oxygenation in Kidneys**  
Sanjana Gattineni; Seth Lee, M.S.; Anna Sorace, Ph.D.
39. **Cooling Interventions to Protect Agricultural Workers against Kidney Injury: A Pilot Study**  
Rashika George; Crista Irwin, Ph.D., RN; Lisa Elon, M.S., M.P.H.; Roxana Chicas, Ph.D., RN
40. **Alkaline Phosphatase-mediated Dephosphorylation of Lipopolysaccharide and Extracellular Adenosine Triphosphate: An Inflammation-induced Preterm Birth Preventative Strategy**  
Aryan Gleason; Cameron Nichols; B.C. Paria
41. **Disease Modeling with Kidney Organoids for Transient Receptor Potential Cation Channel 6-mediated Focal Segmental Glomerulosclerosis**  
Gitika Gorthi; Sophie Karp; Balajikarthick Subramanian, Ph.D.; Martin R. Pollak, M.D.
42. **Effects of Biopsy Needle Gauge Size on Safety and Adequacy of Kidney Biopsy Procedure**  
Anshul Gowda; Dennis Moledina, M.D., Ph.D.
43. **Inflammation Alters the Elastic Fiber Assembly in the Postnatal Mouse Lung**  
Bailey Groff; Riet van der Meer; John Benjamin
44. **Determining the Maternal Safety of IUGT for Hemophilia A Using a Sheep Model**  
Bailey Hadley; Oluwaseun O. Babatunde; J. William Vaughan, Ph.D.; Joshua F. Nitsche, M.D.<sup>2</sup>; Antony Atala, M.D.; Christopher B. Doering, Ph.D.; H. Trent Spencer, Ph.D.; Christopher D. Porada, Ph.D.; Graça Almeida-Porada M.D., Ph.D.
45. **Ketone-induced Histone Post-translational Modifications in Ischemic Kidney Injury**  
Emma Grace Haley; Kyle Feola, B.S.; Andrea Venable, Ph.D.; Sarah C. Huen, M.D, Ph.D.
46. **Movement Abnormality Quantitation: Comparison of On-body vs. Around-body Systems for Assessment of Movement Abnormalities in Chronic Kidney Disease**  
Katelyn Rohrer; Greyson St Pierre; Youssif Abdelkeder; Ben Albright; Farah Alqaraghuli; Luis De Anda; Camila Grubb; Abhiman Gupta; Zachary Hansen; Chris Hedgecoke; Mehrail Lawendy; Suleyman Omer; Jordan Rodriguez; Sara Sheikhlary; Marvin J. Slepian, M.D.
47. **Asn211Gln Glycosylation Site of Discoidin Domain Receptor 1 Resulting in Ligand Independent Signaling**  
Oscar Hanson; Gema Bolas; Ambra Pozzi
48. **Effects of Antibacterials on DNA Cleavage Mediated by *Pseudomonas aeruginosa* Topoisomerase IV**  
Kayla Hardrick; Jillian Armenia; Neil Osheroff
49. **Urinary Extracellular Vesicles: Potential Biomarkers of Kidney Disease in Patients with Cystic Fibrosis**  
Merrill Hart; Hayrettin Yavuz, Ph.D.; Uta Erdbrügger; Agnieszka Swiatecka-Urban, M.D.
50. **Determining Care Consensus Guidelines for Life-long Follow-up Based on Stakeholder Input in Hypospadias**  
Sebastian Haske; Abigail Wiedmer; Walid Farhat, M.D.; Jane Mahoney; Kris Penniston; Vinaya Bhatia, M.D.

51. **Importance of Fluid Shear Stress in Accurately Predicting Drug Induced Nephrotoxicity**  
Noah Helphenstine, B.S.; Jay Prakash Sah, Ph.D.; Ian Berg, Ph.D.; Palaniappan Sethu, Ph.D.
52. **Functionality Testing of a Mutated RUNX2 Amino Acid**  
Lauren HerrNeckar; Guoli Hu, Ph.D.; Courtney M. Karner, Ph.D.
53. **Localization of Polycystin-2 in Tissue Differs from Expression in Cell Culture**  
Daniel L. Hudson; Courtney J. Haycraft, Ph.D.; Mandy J. Croyle, B.A.; Bradley K. Yoder, Ph.D.
54. **Predictors of Kidney Ultrasound Recommendations by a Nephrology Team Upon Real-Time Electronic Diagnosis of KDIGO-Defined Acute Kidney Injury in Hospitalized Adults**  
Daris Javed; Kyle D. O'Connor, M.S.; Aditya Biswas, M.S., Bashar A. Kadhim, M.D., M.H.S.; Yu Yamamoto, M.S.; Abinet M. Aklilu, M.D., M.P.H.; F. Perry Wilson, M.D., M.S.C.E.
55. **Capturing the Unseen: Nocturia and Nighttime Falls through a Photovoice Lens**  
Zi Yang Jing, A.A.; Theodore M. Johnson II, M.D., M.P.H.
56. **The Role of the CXCL13-CXCR5 Chemokine Axis in Regulatory CD8 T Cell Trafficking**  
Zachary Joseph; Jamil Azzi, M.D., Ph.D.; John Y. Choi, M.D.
57. **Interaction between NTF2L Domain of NXF1-NXT1 Export Receptor and CTE RNA**  
Hira Karim; Mei Menghan; Bradley Clarke; Yi Ren
58. **Impact of Testosterone Therapy on Urethral Contractility and Serotonin Signaling in Neuroendocrine Cells through a Cross-sex, Transgender, and Intersex Lens**  
Ren A. Katz; Marcela Ambrogi, D.V.M.; Chad Vezina, Ph.D.
59. **Discovery and Analysis of Somatic Copy Number Variation in Single Cells from Urine**  
Merit Kayastha; Livia Tomasini; Flora M. Vaccarino; Alexej Abyzov, Ph.D.
60. **Effect of Kidney Resident Macrophage-derived C1q during Acute Kidney Injury**  
Zayd M. Khan; Matthew D. Cheung, B.S.; Anupam Aggarwal, M.D.; James F. George, Ph.D.
61. **Effect of Waveform Extrapolation in Pressure Estimation from Ultrasound Bladder Vibrometry**  
Saea Kim; David P Rosen, Ph.D.; Azra Alizad, M.D.; Mostafa Fatemi, Ph.D.
62. **Molecular Characterization and Functional Role of Mitochondrial Mg<sup>2+</sup> Channel Mrs2 under Metabolic Stress**  
Abhinaya Lakkureddi; Manigandan Venkatesan, Ph.D.; Neelanjan Vishnu, Ph.D.; Travis Madaris; Madesh Muniswamy, Ph.D.
63. **Python Computational Methods Advance Video Motion Capture for Telehealth and In-person Diagnostic Accuracy for Advanced Renal Patients**  
Katelyn Rohrer; Greyson St Pierre; Jordan Rodriguez; Camila Grubb; Luis De Anda; Zachary Hansen; Sara Sheikhlary; Suleyman Omer; Mehraïl Lawendy; Farah Alqaraghuli; Chris Hedgecoke; Youssif Abdelkeder; Marvin J. Slepian, M.D.
64. **Potential Transformation of Age-associated B Cell during Chronic Cytomegalovirus Infection among Transplantation Patients**  
Brian Van Lee; Christiane Rollenhagen, Ph.D.; Jonathan Maltzman, M.D., Ph.D.

65. **Capacity Coaching: A Pilot Randomized Trial of a Novel Self-management Intervention for Patients on Dialysis**  
Pin Han Lee; Diane Rakatomala; Maria Mateo Chavez, M.D.; Ricardo Loor Torres, M.D.; Mayra Duran, M.D.; Ziad Zoghby, M.D., M.B.A.; Robert C. Albright, Jr., D.O.; Andrea Kattah, M.D.; Lourdes Gonzalez Suarez, M.D., Ph.D.; Victor M. Montori, M.D.; Vicky Hines, M.A.; Kasey R. Boehmer, Ph.D., M.P.H.
66. **Bioink with Pancreatic Extracellular Matrix for Islet Engineering**  
Stephanie Leon; Arunkumar Rengaraj; Amish Asthana; Giuseppe Orlando
67. **Engaging with Patients to Identify Gaps in Education Prior to Cystectomy**  
Tavia Levenson; Alexa Rose, B.S.; Erica Zeng, M.S.; Megan Saucke, M.A.; Bhabna Pati, M.S.; Esra Alagoz, Ph.D.; Kyle Richards, M.D., FACS
68. **Effect of Transcutaneous Vagus Nerve Stimulation on Patients with Chronic Kidney Disease**  
Sabrina F. Li; Jeann L. Sabino-Carvalho, Ph.D.; Matias G. Zanuzzi, M.D.; Dana R. DaCosta, B.S.; Jeanie Park, M.D.
69. **The Impact of Genetic Background on the Mouse Prostate Histological Response to Testosterone and Estradiol**  
Stephanie Li, William Ricke, Teresa Liu
70. **Characterizing the Expression and Trafficking of Mutant PC1 in a Cell-Based Model of Autosomal Dominant Polycystic Kidney Disease**  
Shannon Liang; Yiqiang Cai, M.D., Ph.D.; Linda Geiges; Stefan Somlo, M.D.
71. **The Effect of TSG-6 Treatment on Murine Ischemic Kidneys Distal to Renal Arterial Stenosis**  
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72. **MASTL Expression and Mitotic Fidelity Decreases in MASTL cKO via Cre-LoxP Recombination**  
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73. **The Role of NF- $\kappa$ B in Kidney Lymphangiogenesis**  
Mays, Dana; Ghajar-Rahimi, Gelare; Melkonian, Arini; George, Jim; Anupam Agarwal
74. **Generation of an Endogenous Mutation in CLC-Kb Using Prime Editing**  
Arianna Mejia, Yogita Sharma, Vivek Bhalla
75. **Capillary Immunoassay of  $\alpha$ -SMA as a Potential Early Marker of ADPKD**  
Damon Montgomery; Seth Entriken; Caroline Sussman, Ph.D.
76. **Examination of Gene Markers of Urethral Development in Sonic Hedgehog Signaling Deficient Mice**  
Jack F. Morrison; Walid A. Farhat, M.D.; Kimberly P. Keil Steitz, Ph.D.
77. **Identification of ENPP6 as a Novel Candidate Gene for Monogenic Congenital Anomalies of the Kidneys and Urinary Tracts**  
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78. **Troubleshooting HRP Immunostaining to Identify Immune T-cells in Spleen and Kidney**  
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79. **The Role of p16-mediated Senescence in Autosomal Dominant Polycystic Kidney Disease**  
Gracie Nicol; Fernanda Pereira, M.D.; Sonu Kashyap, Ph.D.; Z. Hein Kyaw, M.D., Ph.D.; Eduardo N. Chini, M.D., Ph.D.
80. **Heterogeneity in the Expression of ADAMTS10 in Transfected Cells**  
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81. **Urine Derived Stem Cells Culture in Serum Free Media for Regenerative Medicine Application**  
Christine Ogbuebile; Abdelrahman Alwan, M.D.; Joshua Bowlby, M.S.; Emmanuel C. Opara, Ph.D.
82. **Understanding the Effects of Mitochondrial Trans-2-Enoyl-CoA Reductase (Mecr) on CD4+ T Cells Cytokine Expression**  
Richmond Okparaugo; KayLee Steiner; Jeff Rathmell
83. **Assay Development for Investigating the Role of Guanidine in Uremia**  
Maria Luiza Pereira Ortiz; Timothy W. Meyer, M.D.; Tammy L. Sirich, M.D.; Josef Suba
84. **Vitamin A Boosts Human Antibody Response by Promoting B Cell Class Switching to IgA, Somatic Hypermutation and Plasma Cell Differentiation**  
Adam Parker; Yulai Zhou, B.S.; Hong Zan, Ph.D.; Carlos Rivera, Ph.D.; Paolo Casali, M.D.
85. **Spatial Analysis of Human Choroid Plexus Pathology in Dementia**  
Emily Patmore; Neil Dani; Angela Wang
86. **Effects of Exercise in Mice with Benign Prostatic Hyperplasia**  
Megan D. Pearce; William A. Ricke, Ph.D.; Teresa T. Liu, Ph.D.
87. **The Effect of Vagus Nerve Stimulation on Changes in Notch-2 Expression in Spleenocytes following LPS-induced Septic Acute Kidney Injury**  
Kayenat Peera; Mark D. Okusa; Shuhei Kuwabara; William Nash
88. **Overexpression of PMP22 Increases Autophagy in Rat Schwann Cells**  
Gagan Phuyal; Pramod Gowda; Bruce D. Carter
89. **Deletion of MT1-MMP Accelerates Cyst Progression in ADPKD**  
Zoe Pian; Vijayakumar R. Kakade, Ph.D.; Lloyd G. Cantley, M.D.
90. **Literature Review: Examining Central Valley's Reliance on Domestic Wells in a Warming Climate**  
Angelina Powers B.S.; Marimar Contreras Nieves, M.D.; Shuchi Anand M.D., M.S.
91. **A Novel Role for HNF1 $\beta$  in Cilia-mediated Senescence Initiation in Stressed Renal Proximal Epithelial Tubular Cells**  
Zili Qiu, Jieliu Hao, Jinghua Hu

92. **Chronic Glucagon Treatment Reduces Obesity, but Alters Renal Amino Acid Metabolism in Mice**  
Jialin Quan; Leandro Ceotto Freitas-Lima, Ph.D.; Iriscilla Imabary Ayala, Ph.D.; Terry Mae Bakewell; Marcell Fourcaudot; Luke Norton, Ph.D.
93. **Activation of BK Channel Prevented TGF-Induced Oxidative Stress in H9C2 Cardiomyocytes**  
Ramadugu, Anvith; Xiaomao Luo; Simon Bian; Faten Hassounah; Hui Cai
94. **The Role of Endothelial Cell Canonical WNT Signaling in Kidney Fibrosis**  
Ana Ramos De Jesus; Begoña Lainez-Mas, Ph.D.; Mohammad Shohel Akhter, Ph.D.; Julie Goodwin, M.D.
95. **Establishing and Characterizing a Patient-derived Xenograft Model of Benign Prostatic Hyperplasia**  
Avanti Ramraj; Alexandra Polasko, Ph.D., M.S.; James Brooks, M.D.
96. **Cerebral Small Vessel Disease and Effects of Intensive versus Standard Blood Pressure Treatment on Cardiovascular Outcomes and Adverse Events**  
Mallika Reddy; June Li; Nicholas Pajewski; Sarah Gaussoin; Manjula Kurella Tamura
97. **Further Training of Aiforia Deep Learning Model to Characterize Chronic Changes on Kidney Biopsy Images**  
Austin Reynolds; Mahesh Kumar, M.B.B.S.; Fnu Aperia, M.B.B.S.; Praveen Gowtham Dasaraju, M.B.B.S.; Bhawna Randhi, M.B.B.S.; Aleksandar Denic, M.D., Ph.D.; Muhammad Sohaib Asghar, M.B.B.S.; Lucas Stetzk; Andrew D. Rule, M.D.
98. **Utilizing Patient DNA Sequencing Data to Evaluate 7 ADPKD Candidate Genes**  
Sean Rogers; Hana Yang, Ph.D.; Rachel Schauer; Doaa E. Elbarougy, M.B.Ch.B.; Peter C. Harris, Ph.D.
99. **The Effects of Pulse-focused Ultrasound on the Injured Kidney**  
Rodrigo Salinas; Abantika Ganguly, Ph.D.; Shashank Chetty, Ph.D.; Avnesh Thakor, M.D.
100. **Altered Purine Metabolites among a Nicaraguan Population with Acute Kidney Injury and High Risk of Mesoamerican Nephropathy**  
Diane Santos; Nathan Raines, M.D.
101. **Assessment of Mitochondrial Dysfunction in Urine-derived Stem Cells Obtained from Patients with Diabetic Nephropathy**  
Jacqueline Saulnier; Pengfei Yu, M.D.; Hainan Zhu, M.D.; Carol Christine Bosholm, M.D.; Matthew A. Jobira; A. Woldemichael; Anthony Byeler; Yuanyuan Zhang, M.D., Ph.D.
102. **Effects of Uremic Status and Lesion Location on Clinical and Histological Features of Calciphylaxis**  
Aaron Seto; Houda Bouchouari, B.A.; Scott Krinsky, B.A.; Tianqi Ouyang, M.P.H., B.S.; Sagar Nigwekar, M.B.B.S., M.D.
103. **An Optimized Framework for Accurate Identification of Candidate Regulatory Elements Using Single-nucleus Genomics Technology**  
Parsa Seyfourian, B.S.C.; Seong Kyu Han, Ph.D.; Matthew G. Sampson, M.D., M.S.; Dongwon Lee, Ph.D.



104. **Investigating the Impact of Kallikrein on Pendrin Abundance and Function**  
Sumil Shah, B.S.; Truyen D. Pham, M.D.; Susan M. Wall, M.D.
105. **Patient Preferences for Lifestyle versus Pharmacologic Management of Low Risk Chronic Kidney Disease (CKD)**  
Saumya Sharma; Allison Green, M.S.W.; Wen You, Ph.D.; Julia Scialla, M.D., M.H.S.
106. **Predicting Chronic Kidney Disease in Lung Transplant Recipients**  
Sana Shehzad; Frank Hullekes, M.D.; Ruchama Verhoeff, M.D.; Leonardo Riella, M.D., Ph.D.
107. **Vitamin K<sub>3</sub> (Menadione) Increases Aquaporin2 Trafficking in Kidney Principal Cells via a pS256 Independent Pathway**  
Isra Shuster; Richard Babicz, M.D.; Richard Bouley, Ph.D.; Dennis Brown, Ph.D.
108. **Jarid2 as a Potential Pre-cystic Marker for Autosomal Dominant Polycystic Kidney Disease**  
 Shehreen Siddiqui, Victoria Rai, Andrea Reyna, Laura Onuchic, Michael J. Caplan
109. **The Effect of Strain on Vascular Endothelial Growth Factor Receptor 2 Inhibition in the Tumor Microenvironment**  
Trisha Sivam; Bronte Miller, M.S.; Michael Heim; Mary Kathryn-Sewell Loftin, Ph.D.
110. **An Exploration of NMNAT-driven shifts of compartmentalized NAD<sup>+</sup> in Acute Kidney Injury**  
Charlie M. Smith; Amanda Clark, M.D.; Valerie Etzrodt, M.D.; Samir M. Parikh, M.D.
111. **Clinical Assessment of a Novel Software Application for Real-time Digital Measurement during Ureteroscopy**  
Drew M. Smith; Kevin Koo, M.D., M.P.H.; Mark Lifson, Ph.D.; David Holmes III, Ph.D.
112. **Isoform Dependence of NBCe1 Mutation Pathophysiology**  
Hemmi Song; Heather Holmes; Michael F. Romero, Ph.D.
113. **Identification of the Jun Pathway as a Novel Bmp6 Regulator in Iron Homeostasis**  
Adhvaith Sridhar; Allison L. Fisher, Ph.D.; Chia-Yu Wang, Ph.D.; Yang Xu, Ph.D.; Sydney Phillips; Joao A. Paulo, Ph.D., M.M.Sc.; Beata Małachowska, M.D., Ph.D.; Xia Xiao, Ph.D.; Wojciech Fendler, M.D., Ph.D.; Joseph D. Mancias, M.D., Ph.D.; Jodie L. Babitt, M.D.
114. **Characterization of Immune Cell Infiltrates in Acute Interstitial Nephritis**  
Katie Stickels; Maho Terashita, M.D.; Hiroki Mizuno M.D.; Takaharu Ichimura Ph.D.; Joseph Bonventre, M.D., Ph.D.; Naoka Murakami, M.D., Ph.D.
115. **TMEM67 Allelic and Other Effects Drive Vast Phenotypic Heterogeneity across a Broad Spectrum of Ciliopathies**  
Claire M. Strauel; Cynthia J. Sieben, Ph.D.; Peter C. Harris, Ph.D.
116. **Positive Impacts of SGLT2i on Cardiopulmonary Functional Capacity in Patients with T2D and HF**  
Ganesh Chetan Tallam; Yuejuan Qin, M.D.; Francisca M. Acosta, Ph.D.; Sivaram Neppala, M.D.; Tiffany Cortes, M.D.; Allison R. Stepanenko, M.S.N.; Curtis Triplitt, Pharm.D.; Eugenio Cersosimo, M.D. Ph.D.; Sara E. Espinoza, M.D.; Ralph Anthony DeFronzo, M.D.; Carolina Solis-Herrera, M.D.

117. **VEGF-loaded Nanoparticles to Stimulate Angiogenesis**  
Philip Ezekiel Tan; Dana V. Akiki, Ph.D.; William G. Chang, M.D., Ph.D.
118. **Mitochondrial Morphology Regulates Proximal Tubule Cell Differentiation Status**  
Freddiemae L. Thompson; Sho Sugahara; Craig Brooks
119. **Characterization of a Partial Bladder Outlet Obstruction Mouse Model Using X-ray Videocystometry**  
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