



## The 2<sup>nd</sup> UArizona Kidney Symposium

Thursday April 17, 2025

### HSIB Forum

Sponsored by Program for Kidney Health and Disease (PKHD), Department of Physiology

Co-sponsored by College of Medicine – Tucson and UAHS Molecular Systems Medicine Initiative (MSMI)

### Registration and Abstract Submission

Please Register at: <https://www.eventbrite.com/e/2nd-annual-university-of-arizona-kidney-symposium-tickets-1290396975089?aff=oddtcreator> or scan QR code.

Abstract Submission at:

<https://arizona.app.box.com/f/7d26794330fd4ab1a41b167059cfa5eb>

Abstract submission Due Date: **April 4, 2025**

Top abstracts will be selected for oral presentation and poster awards!



| Duration    | Time  | Presenter   | Talk Title   |
|-------------|---|---|--|
| 7:30-8:30   |   | Coffee/Breakfast/Poster set up  |  |
| 8:30-8:40   |   | Welcome and Introduction  |  |
| 8:40-9:30   | Session I – “Tool Time” Talks (50 min) Moderator: Asmaa AbuMaziad, MD |   |  |
|             | 8:40  | <b>Jing (Jason) Wu, PhD FAHA</b><br>Assistant Professor of Physiology   | Chronic Kidney Disease (CKD) Models  |
|             | 8:50  | <b>Frank “Chip” Brosius, III, MD</b><br>Professor of Medicine   | Diabetic Kidney Disease (DKD) Models   |
|             | 9:00  | <b>Qiongzi (Joan) Qiu, PhD</b><br>Assistant Research Professor  | Single-cell and Spatial Transcriptomics: more than RNA   |
|             | 9:10  | <b>Thomas Tomasiak, PhD</b><br>Assistant Professor of Chemistry & Biochemistry  | Illuminating Molecular Mechanisms for Precision Medicine using Cryo-EM                               |
|             | 9:20  | <b>Mohammad Hassan, PhD</b><br>Associate Professor of Physics   | AttoMicroscope in Imaging and Biology  |
| 9:30-9:35   | Introduction of Keynote Speaker                                       |   |  |
| 9:35-10:35  | 60 min  | <b>Keynote Lecture: Mark Knepper, MD, PhD</b><br>Epithelial Systems Biology Laboratory<br>Systems Biology Center, NHLBI | Transcriptional Regulation of Aquaporin-2 – Utilizing Omic Data to Understand Integrative Physiology |
| 10:35-10:45 | Coffee Break  |   |  |

|             |   |   |  |
|-------------|---|---|--|
| 10:45-12:15 | Session II (90 min) Moderator: Jason Wu, PhD            |   |  |
|             | 10:45   | <b>Rick G. Schnellmann, PhD</b><br>Dean, College of Pharmacy<br>Professor of Pharmacology and Toxicology<br>Professor of Medicine                                   | Acute Kidney Injury  |
|             | 11:15   | <b>Hesham Sadek, MD, PhD</b><br>Chief, Division of Cardiology<br>Director, Sarver Heart Center<br>Professor of Medicine   | Heart Regeneration and the<br>Kidney-Heart Axis                                      |
|             | 11:45   | <b>Asmaa AbuMaziad, MD</b><br>Assistant Professor of Pediatrics   | Cytoskeleton-Mitochondria<br>Interaction in Podocytopathies                          |
| 12:15-1:15  | Lunch and Poster Session                                |   |  |
| 1:15-2:30   | Session III (75 min) Moderator: Qiongzi (Joan) Qiu, PhD |   |  |
|             | 1:15  | <b>Jason Wertheim, MD, PhD</b><br>Vice Dean, Research and Graduate Studies<br>Professor, Surgery<br>Professor, Biomedical Engineering                               | Stem Cell Research in Kidney<br>Diseases   |
|             | 1:45  | <b>Christopher Hulme, PhD</b><br>Professor, Pharmacology & Toxicology<br>Co-Director, Arizona Center for Drug<br>Discovery<br>Co-founder Illuminos Therapeutics LLC | Arizona Center for Drug<br>Discovery (ACDD) Technology<br>and Case Studies at the UA |
|             | 2:15  | Selected Trainee Abstract 1 (15 min)  |  |
|             | Coffee Break  |   |  |
| 2:35-3:50   | Session IV (75 min) Moderator: Ashwani Gupta, PhD       |   |  |
|             | 2:35  | <b>Venkatesh Ariyamuthu, MD</b><br>Associate Professor of Medicine  | Utilizing Molecular Microscope<br>in Kidney Transplant Biopsies                      |
|             | 3:05  | <b>Mingyu Liang, MB, PhD</b><br>Cosden Professor and Chair, Physiology<br>Director, Molecular Systems Medicine<br>Initiative  | Renal Metabolism   |
|             | 3:35  | Selected Trainee Abstract 2 (15 min)  |  |
| 3:50-4:00   | <b>Poster Award and Closing Remarks</b>                 |   |  |

### Organizing Committee

Asmaa AbuMaziad, MD, Department of Pediatrics  
Ashwani Kumar Gupta, PhD, Department of Surgery  
Jacqueline Laird, Department of Physiology  
Qiongzi (Joan) Qiu, PhD Department of Physiology  
Jing (Jason) Wu, PhD, FAHA, Department of Physiology (Committee Chair)

Please direct questions to Jason Wu: [jingwu1@arizona.edu](mailto:jingwu1@arizona.edu)