



The 2nd 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=oddttdtcreator> 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	Jing (Jason) Wu, PhD, FAHA Assistant Professor of Physiology	Chronic Kidney Disease (CKD) Models
	8:50	Frank “Chip” Brosius, III, MD Professor of Medicine	Diabetic Kidney Disease (DKD) Models
	9:00	Qiongzi (Joan) Qiu, PhD Assistant Research Professor	Single-cell and Spatial Transcriptomics: more than RNA
	9:10	Thomas Tomasiak, PhD Assistant Professor of Chemistry & Biochemistry	Illuminating Molecular Mechanisms for Precision Medicine using Cryo-EM
	9:20	Mohammad Hassan, PhD Associate Professor of Physics	AttoMicroscope in Imaging and Biology
9:30-9:35		Introduction of Keynote Speaker	
9:35-10:35	60 min	Keynote Lecture: Mark Knepper, MD, PhD Epithelial Systems Biology Laboratory 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	Rick G. Schnellmann, PhD Dean, College of Pharmacy Professor of Pharmacology and Toxicology Professor of Medicine	Acute Kidney Injury
	11:15	Hesham Sadek, MD, PhD Chief, Division of Cardiology Director, Sarver Heart Center Professor of Medicine	Heart Regeneration and the Kidney-Heart Axis
	11:45	Asmaa AbuMaziad, MD Assistant Professor of Pediatrics	Cytoskeleton-Mitochondria Interaction in Podocytopathies
	12:05	Marvin Slepian, MD Regents Professor, Associate Department Head, Biomedical Engineering	Unmet Needs in Renal Medicine and Progress Report from the ADVANCE Kidney Health Program
12:15-1:15	Lunch and Poster Session		
1:15-2:30	Session III (75 min) Moderator: Qiongzi (Joan) Qiu, PhD		
	1:15	Jason Wertheim, MD, PhD Vice Dean, Research and Graduate Studies Professor, Surgery Professor, Biomedical Engineering	Stem Cell Research in Kidney Diseases
	1:45	Christopher Hulme, PhD Professor, Pharmacology & Toxicology Co-Director, Arizona Center for Drug Discovery Co-founder Illuminos Therapeutics LLC	Arizona Center for Drug Discovery (ACDD) Technology 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	Venkatesh Ariyamuthu, MD Associate Professor of Medicine	Utilizing Molecular Microscope in Kidney Transplant Biopsies
	3:05	Mingyu Liang, MB, PhD Cosden Professor and Chair, Physiology Director, Molecular Systems Medicine Initiative	Renal Metabolism
	3:35	Selected Trainee Abstract 2 (15 min)	
3:50-4:00		Poster Award and Closing Remarks	

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



COLLEGE OF MEDICINE TUCSON
Physiology



College of Medicine
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Keynote Speaker Spotlight

The 2nd UArizona Kidney Symposium

Featuring **Dr. Mark Knepper, MD, PhD**

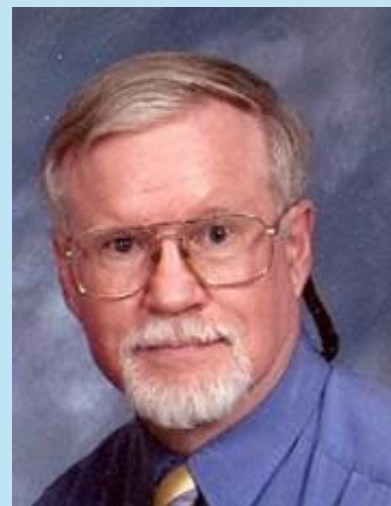
Senior Investigator
Epithelial Systems Biology Laboratory (ESBL)
National Heart, Lung, and Blood Institute (NHLBI)

 **Date: Thursday, April 17, 2025**

 **Location: HSIB Forum**

 **Keynote Lecture: 9:35 - 10:35 AM**

Keynote Address:




Transcriptional Regulation of Aquaporin-2 – Utilizing Omic Data to Understand Integrative Physiology

Dr. Mark Knepper is a renowned nephrologist and molecular biologist specializing in renal physiology. His laboratory applies cutting-edge transcriptomic and proteomic techniques to understand kidney function and disease. His research focuses on three main areas:

- Gene Expression in Kidney Epithelial Cells
- Diabetes Insipidus and Lithium Toxicity
- Water Retention Syndromes

Dr. Knepper has published over 500 peer-reviewed papers and has received prestigious awards, including the H.W. Smith Award from the American Society of Nephrology, the C.W. Gottschalk Award from the American Physiological Society, and the D.W. Seldin Lectureship from the American Heart Association.

 Don't miss this incredible opportunity to hear from a leader in kidney research!

Please Scan the QR Code to Register!

