



Kidney Stone Research Day 2023

presented by the

Mayo Clinic Exploratory P20 Center for Interdisciplinary Research in Benign Urology

“Renal macrophages in the pathogenesis of human urinary
stones and Randall’s plaque formation in mice”

October 6, 2023

Ozmun Hall

Mayo Building 19-01

Rochester, MN



in collaboration with



National Institute of
Diabetes and Digestive
and Kidney Diseases

Kidney Stone Research Day 2023

Friday, October 6, 2023 7:30am-5:00pm	
7:30-8:30am Location: Zoom	Nephrology Journal Club: “A spatially anchored transcriptomic atlas of the human kidney papilla identifies significant immune injury in patients with stone disease.” Presenter: Dr. Xia (Julie) Zhou <i>**The Nephrology Journal Club is a CME accredited conference. Details concerning this can be found in the agenda’s distribution announcement.</i> ZOOM Connection Information: Join Zoom Meeting https://mchealth.zoom.us/j/97147795289?pwd=cWJwaFo2OUl6bXVIbmNuOUtaS21lQT09 Meeting ID: 971 4779 5289 Passcode: 771261 <i>**Having trouble connecting? Please reach out to Ms. Melissa Hanson for assistance (hanson.melissa2@mayo.edu).</i>
8:40-8:45am Location: Mayo Bldg 19th Floor Ozmun Hall or Zoom	Kidney Stone Research Day 2023 <i>Welcome and Introductions</i> Dr. Kevin. Koo & Dr. John C. Lieske ZOOM Connection Information: Join Zoom Meeting https://mchealth.zoom.us/j/94778508724?pwd=TWwERWxxOU8wRWl0aUpqNi95SThtUT09 Meeting ID: 947 7850 8724 Passcode: 460810 <i>**Having trouble connecting? Please reach out to Ms. Claire Rehome for assistance (rehome.claire@mayo.edu).</i>

8:45-10:00am	Novel Model Systems <i>Moderator: Dr. Michael Romero</i>		
		Title	Investigators
	8:45-9:00am	Project 1: Functional demonstrations in kidney organoids	Dr. Navin Gupta
	9:00-9:15am	Project 2: Drosophila models	Dr. Mathias Simons
	9:15-9:30am	Project 3: Novel Cell Systems for Dent disease	Dr. Gerard Cantero/ Dr. Anna Meseguer
	9:30-9:45am	Project 4: Understanding and manipulating gut oxalate transport	Dr. Hatim Hassan
9:45-10:00am	PANEL DISCUSSION- <i>Novel Model Systems</i>		
10:00-11:15am	Inflammation and Stones <i>Moderator: Dr. Lama Nazzal</i>		
		Title	Investigators
	10:00-10:15am	Project 1: Macrophages in urinary stone disease in mice and human	Dr. Muthuvel Jayachandran
	10:15-10:30am	Project 2: Role of anion transporters in oxalate crystal clearance by renal Macrophages	Dr. Felix Knauf
	10:30-10:45am	Project 3: Mechanisms that the microbiome influences stone disease	Dr. Lama Nazzal
	10:45-10:55am	Project 4: Antibiotics and Stones	Dr. Charat Thongprayoon
	10:55-11:05am	Project 5: Crystals, inflammation, and cysts	Dr. Christian Hanna
11:05-11:15am	PANEL DISCUSSION- <i>Inflammation and Stones</i>		
11:15-11:30am	Morning Break		
11:30-12:45pm	Genetics of Common and Rare Diseases <i>Moderator: Dr. John C. Lieske</i>		
		Title	Investigators
	11:30-11:45am	Project 1: Monogenic panel: Screening to discovery	Dr. Peter Harris
	11:45-12:00pm	Project 2: Genomic Research Opportunities in the Biobank Era	Dr. Nicholas Larson

	12:00-12:15pm	Project 3: Genetics and new advances in cystinuria	Dr. David Goldfarb
	12:15-12:30pm	Project 4: FGF23, Vitamin D and Dent disease	Dr. Carmen Reynolds
	12:30-12:45pm	Project 5: A molecular look on AGT variants	Dr. Barbara Cellini
12:45-1:00pm	PANEL DISCUSSION- Genetics of Common and Rare Diseases		
1:00-1:45pm	WORKING LUNCH		
		Title	Investigators
	Lunch Lecture	Project 1: Oliver M. Wrong; His Life and Legacy	Dr. Steve Scheinman
1:45-3:45pm	Aligning patients, caregivers and researchers in a common vision Moderators: Dr. Kim Hollander & Dr. Jill Goodrich		
		Title	Investigators
	1:45-2:00pm	Project 1: From intra-op to benchtop: building surgical capacity in a kidney stone research program.	Dr. Kevin Koo
	2:00-2:15pm	Project 2: CAIRIBU – Collaborating, Building, and Advancing Urology Research.	Dr. Kristina Penniston
	2:15-2:30pm	Project 3: Developing a kidney stone registry and Center of Excellence.	Dr. Neera Dahl
	2:30-2:45pm	Project 4: Building a nurse driven EH registry and treatment protocol.	Dr. Hatem Amer
	2:45-3:00pm	Project 5: Building a multicenter EH registry.	Dr. Mira Keddis/ Ryan Tatton
	3:00-3:15pm	Project 6: Cost and care access for stone patients undergoing surgical management.	Dr. Kevin Wymer
	3:15-3:30pm	Project 7: The voice of the patient	Dr. David Sas
3:30-3:45pm	PANEL DISCUSSION- Aligning patients, caregivers and researchers in a common vision		

3:45-4:00pm	AI and EPI tools for stone disease <i>Moderator: Dr. David Goldfarb</i>		
		Title	Investigators
	3:45-4:00pm	Project 1: AI possibilities in clinical research	Dr. Jaleh Zand
	4:00-4:15pm	Project 2: Clinical Integration of Quantitative Stone Image Analysis	Dr. Timothy Kline
	4:15-4:30pm	Project 3: Nephrocalcinosis vs stones by imaging	Dr. Andrea Ferrero
	4:30-4:45pm	Project 4: Can AI help us predict symptomatic stone events in persons with asymptomatic kidney stones?	Dr. Andrew Rule
4:45-5:00pm	PANEL DISCUSSION- <i>AI and EPI tools for stone disease</i>		
5:00-5:30pm	WRAP UP AND DISCUSSION Dr. Kevin Koo, Dr. John Lieske, Dr. Muthuvel Jayachandran		
6:00pm	DINNER @ Prescott's Grill 1201 Broadway Ave S STE 80 Rochester, MN 55904		