

R.O.C.K. Society 2019 Annual Meeting

Cleveland, OH

Friday – March 29th

12:30 – 1:00 Registration
**Lunch is not provided*

1:00 – 1:15 Welcome

Session One: Metabolic Stone Disease

Moderators: Juan Calle, MD and John C. Lieske, MD

1:15 – 1:30 What Determines Progression of Calcium Phosphate Stones?
Naim Maalouf, MD

1:30 – 1:45 The Association Between 24-Hour Urine Collection Use and Stone Recurrence
Among High Risk Kidney Stone Formers
Jonathan D. Harper, MD

1:45 – 2:00 Comparison of 24-hour Urinary Sodium and Potassium Excretion in U.S. Stone
Formers vs. Non-stone Formers from 2010-17
Kelly A. Healy, MD, FACS

2:00 – 2:15 Predictors of 24-hour Urine Ammonium Excretion
Megan L. Prochaska, MD, MPH

2:15 – 2:30 Utility of 24-hour Urine Collection On Decision-making for Nephrolithiasis
Prevention
Ryan Hsi, MD

2:30 – 2:45 BREAK

Session Two: Translational Research

Moderators: Dirk Lange, BSc (Hon), PhD and Aaron W. Miller, PHD

2:45 – 3:00 Biomineralization - Stones and Beyond
Sunita Venkat Pullela Ho, PhD

3:00 – 3:15 Understanding Stone Risk through the Urinary Metabolome
Aaron W. Miller, PHD

3:15 – 3:30 The Role of the Microbiome in the Gut-Kidney Axis in Pediatric Kidney Stone
Disease
Gregory Tasian, MD, MSc, MSCE

3:30 – 3:45 Metabolomics of Oxalobacter Formigenes to Characterize Intestinal Oxalate Secretion
Casey Chamberlain

3:45 – 4:00 Are Gut Bacteria Responsible for Absorptive Hypercalciuria? A Rodent Study
Benjamin K. Canales, MD, MPH

4:00 – 4:15 BREAK

Session Three: Endourology & Biomedical Engineering

Moderators: Brian R. Matlaga, MD, MPH and Sri Sivalingam, MD

4:15 – 4:30 Why Are We Still Performing Fluoroscopic Guided PCNL? Ultrasound Guided Access
Roger L. Sur, MD

4:30 – 4:45 The Road to Ambulatory PCNL
Joshua Stern, MD

4:45 – 5:00 Cost Variation in Ureteroscopic Stone Management Throughout a Large Hospital System: Observations and Opportunities
Patrick Lowry, MD

5:00 – 5:15 Acute Stent Encrustation: Risk Factors Associated with Early Calcifications
David A. Schulsinger, MD, FACS

5:15 – 5:30 Utility of Emergently Placed Interventional Radiology Nephrostomy Tubes for Subsequent Percutaneous Nephrolithotomy
Patrick W. Mufarrij, MD

6:30 – 9:00 NETWORKING RECEPTION
The Music Box, 1148 Main Avenue, Cleveland, Ohio 44113
**Transportation not provided. Please meet us there!*

Saturday – March 30th

Session Four: Medical and Dietary Stone Prevention

Moderators: Margaret S. Pearle, MD, PhD and Kristina Penniston, PhD, RDN, CD, FAND

7:30 – 8:00 Breakfast

8:00 – 8:15 Magnesium and Its Alkali Potential
Roy A. Jhagroo, MD

8:15 – 8:30 Citrate is Great, but Don't Hate Bicarbonate: The Impact Of Alternative Alkalinizing Agents On 24-Hour Urine Collection Parameters
Russell Terry, MD

8:30 – 8:45 Integrating Technology into the Prevention of Kidney Stones
Necole Streeper, MD

8:45 – 9:00 Nephrolithiasis and Diabetes: Risk Factors Predicting Stone Disease
Varun Talanki, MD

Session Five: Biomedical Innovation

Moderators: Michael R. Bailey, PhD and Smita De, MD, PhD

9:00 – 9:15 Long-term Stone Recurrence Rates in Uric Acid Stone Formers With or Without Medical Management
Vincent G. Bird, MD

9:15 – 9:30 The Latest on Acoustic Manipulation of Stones
Michael R. Bailey, PhD

9:30 – 9:45 Shock Wave Lithotripsy Research and Technology Development in 2019
Pei Zhong, PhD

9:45 – 10:00 Local Drug Delivery for Relaxation of the Human Ureter
Christopher Lee, PhD

10:00 – 10:15 BREAK

Session Six: Translational Research

Moderators: David Bushinsky, MD and Benjamin K. Canales, MD, MPH

10:15 – 10:30 Changes in Populations of Extracellular Vesicles Derived from Renal Tubular and Inflammatory Cells in the Urine of Stone Formers
Muthuvel Jayachandran, PhD

10:30 – 10:45 Neutrophil Infiltration and NETosis in the Pathogenesis of Human Kidney Brushite Stones
James C. Williams, Jr., PhD

10:45 – 11:00 Altered 1,25(OH)₂D₂₄-hydroxylase (Cyp24A1) Activity in the Pathogenesis of Calcium USD. Authors: Kumar R, Lieske JC, and Rule AD; Mayo Clinic
Rajiv Kumar, MD

11:00 – 11:15 The Absence of SAT-1 (Slc26a1) Does Not Impair Intestinal Oxalate Secretion or Produce Hyperoxaluria in Mice
Jonathan Whittamore, PhD

11:15 – 11:30 Whole Genome Sequencing Reveals a Canine Model of Monogenic Calcium Oxalate Urolithiasis
Eva Furrow, VMD, PhD

11:30 – 12:15 Industry Sponsored Lunch, sponsored by Allena Pharmaceuticals
* Lunch provided for all attendees

12:15 – 12:45 Business Meeting
* Business Meeting for members only

Session Seven: Translational Research

Moderators: *Dean Assimos, MD and James C. Williams, Jr., PhD*

- 12:45 – 1:00 The Immune Response to Dietary Oxalate Loads
Tanecia Mitchell, PhD
- 1:00 – 1:15 Subdued, An Anoctamin Homolog, Changes Calcium Oxalate Crystal Formation in Drosophila Renal Structures Revealing Potential Roles in Mammals
Daniel Turin
- 1:15 – 1:30 Reduction in Urinary Oxalate Excretion in Mouse Models of Primary Hyperoxaluria by RNA interference
Kyle D. Wood, MD
- 1:30 – 1:45 Proteomics and COM Crystals
Jeffrey A. Wesson, PhD, MD
- 1:45 – 2:00 BREAK

Session Eight: Quality of Care and Quality of Life

Moderators: *Timothy D. Averch, MD and Andrew Rule, MD*

- 2:00 – 2:15 Improving Access and Quality of Care for Kidney Stone Patients in the Underserved Community of Columbus
Michael W. Sourial, MD, FRCSC
- 2:15 – 2:30 Understanding the Continuum of Health-Related Quality of Life in Renal Stone Formers
Justin B. Ziemba, MD
- 2:30 – 2:45 Hasta La Vista: Improving Post-Ureteroscopy Outcomes In Patients With Psychiatric Comorbidities Using Post-Op Phone Calls
Brenton Winship, MD
- 2:45 – 3:00 Opioids and Stone Disease: A National Perspective
Vernon M. Pais Jr., MD, MS
- 3:00 – 3:15 Opioid Prescribing in Endourology: Responding to the Nationwide Epidemic
Nicole L. Miller, MD, FACS
- 3:15 – 3:30 Time to Decompression of Stone Related Obstructive Pyelonephritis is Associated with Increased Odds of Death
Ojas Shah, MD
- 3:30 *Meeting Adjourned*