

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

InterContinental Hotel, Cleveland, OH

**Friday – March 29<sup>th</sup>**

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 – 3:00 BREAK

**Session Two: Translational Research**

*Moderators: Dirk Lange, BSc (Hon), PhD and Aaron W. Miller, 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 30<sup>th</sup>

### 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  
“Causes and consequences of enteric hyperoxaluria”  
John C. Lieske, MD, FASN  
Mayo Clinic Division of Nephrology and Hypertension  
Rochester, MN
- “Highlighting the ongoing, global Phase III studies of reloxaliase for patients with Enteric Hyperoxaluria”  
Louis Brenner, MD  
Allena Pharmaceuticals, Inc.
- \* 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*