Stanford University Department of Urology Presents
Stanford Urology Grand Rounds and Uroradiology Care Conference

**Topic of the Month: Urolithiasis: Medical Management**

**Faculty of the Month: Simon Conti, MD**
**Course Director: Hsi-Yang Wu, MD**

**Tuesday, May 1, 2018**
**Location: LKSC 120**
**6:15 PM – 8:15 PM**

6:15 PM – 6:30 PM: Case Conference
Leo Chen, MD & Eugene Shkolyar, MD

6:35 PM – 6:50 PM: Research Presentation
**Intra-tumoral Heterogeneity of Oncogenic Signaling Activity in Kidney Cancer**
Christian Hoerner, PhD

6:55 PM – 7:25 PM: Resident Presentation
**Tapping into Geographic Variation in Urinary Stone Disease: What’s in the Water?**
William Brubaker, MD

Metabolic Stone Evaluation in Stone Formers in the VA System
Calyani Ganesan, MD

7:30 PM – 8:15 PM:
**From Bench to Bedside: Translating a fruit fly into a kidney stone drug**
Tom Chi, MD

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**Global Learning Objectives:**
- Develop strategies to apply emerging research and best practice guidelines in the diagnosis and management of adult and pediatric urology patients
- Evaluate the management details for patients and incorporate strategies to improve outcomes

**Session Objective(s):**

**Christian Hoerner**
- In contrast to the extensive intra-tumoral heterogeneity (ITH) of genetic mutations in RCC, little is known about ITH on the functional level, i.e. ITH of activity of signaling pathways
- We measure ITH of the activity of ERK, a kinase in the MAP kinase signaling pathway, and find limited ITH of ERK activity
- This suggests that genomic ITH overestimates functional ITH and supports the utility of tumor biopsies for diagnosis and therapy selection

**William Brubaker**
- To understand how the environment and geography influence stone disease
- Discuss how the municipal water supply can impact stone disease

**Tom Chi**
- Apply basic evidence to an understanding of how kidney stones are formed
- Understand one type of pathway leading from basic discovery to drug validation
- Describe the basic epidemiology of cystinuric stone disease

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**Accreditation**
The Stanford University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

**Credit Designation**
The Stanford University School of Medicine designates this live activity for a maximum of 2.00 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

**Cultural and Linguistic Competency**
California Assembly Bill 1195 requires continuing medical education activities with patient care components to include curriculum in the subjects of cultural and linguistic competency. The planners and speakers of this CME activity have been encouraged to address cultural issues relevant to their topic area. The Stanford University School of Medicine Multicultural Health Portal also contains many useful cultural and linguistic competency tools including culture guides, language access information and pertinent state and federal laws. You are encouraged to visit the portal: [http://lane.stanford.edu/portals/cultural.html](http://lane.stanford.edu/portals/cultural.html)