

## MULTI-SCALE DATA FUSION FOR PRECISION MEDICINE

**OLIVIER GEVAERT**, Assistant Professor, Stanford Center for Biomedical Informatics Research (BMIR), Department of Medicine, Stanford University

**Date: October 18, 2016 (Tuesday)**

**Time: 11:45 – 13:15** (*Lunch will be provided for pre-registered guests*)

Vast amounts of molecular data characterizing the genome, epi-genome and transcriptome are becoming available for a wide range of cancers. In addition, new computational tools for quantitatively analyzing medical and pathological images are creating new types of phenotypic data. Now we have the opportunity to integrate the data at molecular, cellular and tissue scale to create a more comprehensive view of key biological processes underlying cancer. This integration can have profound contributions toward predicting diagnosis and treatment. Prof. Gevaert will discuss current work in progress to tackle challenges in biomedical multi-scale data fusion. Olivier Gevaert is an assistant professor at Stanford University focusing on developing machine-learning methods for biomedical decision support from multi-scale biomedical data.

## FROM MOLECULES TO HEALTH: THE TRANSLATIONAL POWER OF CONNECTING CHEMISTRY, ENGINEERING, AND MEDICINE

**CHAITAN KHOSLA**, Wells H. Rauser and Harold M. Petiprin Professor, School of Engineering; Professor of Chemistry, Stanford University

**Date: October 20, 2016 (Thursday)**

**Time: 16:00 – 17:30**

Professor Khosla is the Wells H. Rauser and Harold M. Petiprin Professor, School of Engineering; and Professor of Chemistry, and, by courtesy, of Biochemistry, Stanford University. He is the recipient of multiple distinguished awards including the Arthur C. Cope Scholar Award (2009) and Pure Chemistry Award (2000) of the American Chemical Society, and the Alan T. Waterman Award of the National Science Foundation (1999). He is on the board of Epiva Biosciences and Protagonist Pharmaceuticals, and is a Scientific Policy Committee Member of the SLAC National Accelerator Laboratory, and Executive Council Member of the North American Society for the Study of Celiac Disease. Research in his laboratory focuses on problems where deep insights into enzymology and metabolism can be harnessed to improve human health.

## Fighting Infection: AIDS to SARS to ZIKA: Where Do We Go From Here?

**MYRON COHEN**, Associate Vice Chancellor for Global Health; Yeargan-Bate Distinguished Professor of Medicine, Microbiology and Immunology, and Epidemiology; Chief, Division of Infectious Diseases; Director, Institute for Global Health & Infectious Diseases, University of North Carolina

**Date: October 28, 2016 (Friday)**

**Time: 11:45 – 13:15** (*Lunch will be provided for pre-registered guests*)

Dr. Cohen is the Associate Vice Chancellor for Global Health, and the Yeargan-Bate Distinguished Professor of Medicine in Microbiology and Immunology, and Epidemiology at University of North Carolina. He received his BS from the University of Illinois, Urbana, and MD from the Rush Medical College. His research work focuses on the transmission and prevention of transmission of STD pathogens including HIV. Much of his work has been conducted at the research sites he and his group have developed in Lilongwe, Malawi and Beijing, China. Dr. Cohen and his coworkers have identified the concentration of HIV in genital secretions required for transmission of HIV, and the effects of genital tract inflammation on HIV. Dr. Cohen is currently studying Zika as a sexually transmitted disease.

**REGISTRATION:**  
**ADDRESS:**

Email: [sanjiu39@stanford.edu](mailto:sanjiu39@stanford.edu); Tel: 10-62744163

**Stanford Center at Peking University**

The Lee Jung Sen Building, Langrun Yuan, Peking University

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