



**Title:**

## “Novel Insights from High-Resolution Imaging of Neural Crest Stem Cell Migration and Differentiation.”

**Abstract:**

In contrast to classical dogma, we recently showed that highly migratory neural crest stem cells are the primary source of microvillous sensory neurons in zebrafish. We then expanded upon those findings by utilizing the novel technique lattice light-sheet to image live zebrafish embryos at the highest spatiotemporal resolution to date in vertebrates, building a four-dimensional blueprint of long-distance stem cell migration and differentiation in vivo at subcellular resolution.

**Date:**

**22 January 2015  
(Thursday)**

**Time:**

**11:00 AM to 12:00 PM**

**Venue:**

**Meeting Rm 7C, Level 7  
Duke-NUS Grad Med School  
8 College Road, S169857**  
(Opposite Singapore General Hospital, Block 6/7)

**Host:**

**Sin Tiong ONG, MA, MRCP**  
Associate Professor  
Program in Cancer & Stem Cell Biology  
Duke-NUS Graduate medical School Singapore

**“No registration is required.”**

Any enquiry, please contact:  
Lilian Poon (Tel: 6601 3779)

**Speaker:**



**ANKUR Saxena, Ph.D.**

Senior Research Fellow  
Division of Biology & Biological Engineering  
California Institute of Technology  
Pasadena, CA  
USA

**Biography:**

**Dr. Ankur Saxena** received his B.S. in Molecular Biology from the University of Texas at Austin and a Ph.D. at UT Southwestern Medical Center, during which he co-opted cell migration proteins to reduce damage post-myocardial infarction. His subsequent work at Harvard Medical School uncovered a role for microRNAs in cardiac morphogenesis. Now, he uses high-resolution, in vivo imaging techniques in Dr. Marianne Bronner's lab at Caltech to study neural crest stem cell migration and differentiation.