

Tuesday, January 17th, 2012, 4:00 pm

Venue: Auditorium of the California NanoSystems Institute (CNSI), UCLA,
Building 114, 570 Westwood Plaza, Los Angeles, CA 9009

Leica Scientific Forum Los Angeles

Advances in Life Science

Xiaowei Zhuang

Bioimaging on the Nanoscale: Single-molecule and Super-resolution Fluorescence Microscopy

4:00 Welcome and introduction by Chairman Prof. Shimon Weiss

Lecture Xiaowei Zhuang:

Stochastic optical reconstruction microscopy (STORM) is a new form of super-resolution fluorescence microscopy, which surpasses the diffraction limit by using single-molecule imaging and photoswitchable probes to temporally separate the spatially overlapping images of individual molecules. This approach allows multicolor, 3D imaging of living cells with nanometer-scale resolution.

In her talk, Xiaowei Zhuang will discuss the general concept, recent technological advances and biological applications of STORM.

5:15 Discussion & post lecture reception

Scientific Advisory Board: Prof. Roger Tsien (UCSD), Prof. Mark Ellisman (UCSD), Prof. Shimon Weiss (UCLA), Prof. Katsushi Arisaka (UCLA), Prof. Arnold Kriegstein (UCSF), Prof. Michael Stryker (UCSF), Dr. Thomas Zapf (Leica Microsystems)

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