



中国科学院生物物理研究所

## 贝时璋讲座

### Imaging Cellular Dynamics from Molecules to Organisms

报告人：Eric Betzig（2014年诺贝尔奖）

报告时间：2016年3月15日（星期二）下午2:00

报告地点：生物物理所9501会议室

主持人：徐涛研究员

### 报告人简介

Eric Betzig is a Group Leader at the Janelia Research Campus in Ashburn, VA. His thesis at Cornell University (Ph.D. '88) and subsequent work as a PI at AT&T Bell Labs involved the development of near-field optics – an early form of super-resolution microscopy. Tiring of academia, he resigned, and in 1995 published the concept that would become localization microscopy while unemployed. He eventually served as VP of R&D at Ann Arbor Machine Tool Company, but resigned in 2002 when the technologies he developed there failed commercially.



In 2005, he and his fellow Bell Labs expatriate, Harald Hess, used photoactivated fluorescent proteins to bring super-resolution localization microscopy to reality, building the first prototype in the living room of Dr. Hess. For this work, he is a co-recipient of the 2014 Nobel Prize in Chemistry. Today, he continues to work in super-resolution, as well as with non-diffracting light sheets for the 4D dynamic imaging of living systems and adaptive optics to recover optimal imaging performance deep within aberrating tissues.