Living up to Life

Friday, May 28th, 2010, 15:00 h

European Molecular Biology Laboratory (EMBL),
Meyerhofstraße 1, Heidelberg, Venue: Large Operon

Leica Scientific Forum Heidelberg

Advances in Life Science

Prof. Marcel Bruchez

Carnegie Mellon University, Pittsburgh/USA

"Genetically Targeted Multichromophore Structures for Bright, Sensitive, and Responsive Cellular Imaging"

May 28th, 2010

15:00 h Welcome by Chairman Dr. Carsten Schultz

Prof. Bruchez' lecture will cover:

- The exploitation of noncovalent interactions between selected expressible polypeptides and low-fluorescence dye molecules to manipulate the brightness, achieving fluorescence enhancements in excess of 10,000-fold.
- The modules are tailored by modification of both the polypeptide and the dye molecule to provide unique sensing and imaging properties, reporting in real-time on subcellular location and target-specific physiology in fluorescent imaging at and beyond the optical diffraction limit.

Discussion

16:15 h Post Lecture Reception – Meet the Speaker

Scientific Advisory Board: Prof. Winfried Denk (MPI), Prof. Roland Eils (DKFZ), Prof. Stefan Hell (MPI/DKFZ), Dr. Rainer Pepperkok (EMBL), Dr. Thomas Zapf (Leica Microsystems)

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