

Monday, 11th September 2006, 16:00 h

DKFZ Heidelberg, Auditorium, Communication Center

Leica Scientific Forum Heidelberg

Advances in Life Science

Konstantin A. Lukyanov, PhD
Institute of Bioorganic Chemistry
Russian Academy of Science, Moscow, Russia

“Novel fluorescent proteins for a deeper insight into biology”

11th September 2006

16:00 Opening by Dr. Rainer Pepperkok (EMBL)

16:20 Dr. Konstantin A. Lukyanov, Russian Academy of Science, Moscow, Russia

He will give an overview of the biochemical and spectral properties of GFP-like proteins and their most common applications for in vivo labeling.

– Diversity of photoactivatable fluorescent proteins for cell and protein tracking

– Recent development of first phototoxic fluorescent protein, KillerRed,

opens up new possibilities for precise light-induced cell killing and target protein inactivation

– Genetically encoded sensor for hydrogen peroxide ensuring sensitive and selective visualization of H₂O₂ production in living cells

17:30 Discussion

18:00 Get together – by snacks and drinks

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

For free registration please contact: Andrea Maier at Leica Microsystems,
Phone +49 (0)621 7028-1001 or Mail andrea.maier@leica-microsystems.com

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