

Satellite Symposium

Molecular Reaction Mechanisms of Retinal Proteins

October 2nd

Program

9:00-9:05 Opening (Klaus Gerwert)

9:05-9:35 Peter Hegemann - *Molecular bases for Channelrhodopsin conductance and ion selectivity*

9:35-10:05 Franz Bartl – *Activation mechanism of the red-activatable Channelrhodopsin variant ReaChR*

10:05-10:35 Marcus Elstner - *QM/MM MD Simulations of Channelrhodopsins*

10:35-11:05 Hartmut Oschkinat - *to be announced*

11:05-11:30 Coffee Break

11:30-12:00 Joachim Heberle - *Conformational changes and proton transfers in Channelrhodopsins recorded by ns IR spectroscopy*

12:00-12:30 Ana-Nicoleta Bondar - *Hydrogen bond dynamics of retinal proteins*

12:30-13:00 Josef Wachtveitl - *Initial photoreactions in retinal proteins*

13:00-13:30 Christian Bamann - *Ion transport kinetics in rhodopsins - an electrophysiological perspective*

13:30-14:00 Jörg Standfuss - *Direct observation of the bacteriorhodopsin photocycle using X-ray free electron lasers*

14:00-15:00 Snacks & Discussion

15:05-15:30 Klaus Peter Hofmann - *Single molecule function of the rhodopsin in rods*

15:30-16:00 Keiichi Inoue - *Spectroscopic study on the ion-transport mechanism of eubacterial light-driven ion pumps*

16:00-16:30 Klaus Gerwert – *Bacteriorhodopsin and Channelrhodopsin: E90 makes the difference*

16:30-17:00 Final Discussion