

第51回日本生物物理学会年会・於国立京都国際会館  
2013年10月28日(月) - 30日(水)

シンポジウム 2SAP : 10月29日(火) 16:15-18:45 A会場

# ロドプシン研究の過去・現在・未来

## *Rhodopsin Research : Past, Present and Future*

*rho·dop·sin* : « rhodo » Greek, rose + « opsis » Greek, sight

« classic→ » *the red-colored pigment in the retinal rods of the eyes* — 視紅

« modern→ » *the photoactive proteins containing a retinal chromophore in animals and microbes*

« future→ » *one of the most intelligent optogenetic tools, powered by a retinal chromophore....?*

*Organizers* Hideki Kandori ..... ♦ Nagoya Institute of Technology  
Akihisa Terakita ..... ♦ Osaka City University

16:15-16:25 *Opening Remarks*

*Chair* Akira Kawanabe ..... ♦ Osaka University

16:25-16:55 \*Yoshinori Shichida ..... ♦ Kyoto University

*New trends in rhodopsin studies*

*Chair* Takashi Tsukamoto ..... ♦ Nagoya University

16:55-17:25 \*Tsutomu Kouyama ..... ♦ Nagoya University

*X-ray crystallographic studies on light-induced structural changes in rhodopsins*

*Chair* Hisao Tsukamoto ..... ♦ Institute for Molecular Science

17:25-17:55 \*Yoshitaka Fukada ..... ♦ The University of Tokyo

*From non-bleachable rhodopsin to non-visual opsins*

*Chair* Takeshi Matsuyama Hoyos ..... ♦ Kyoto University

17:55-18:25 Shinya Sato, Shuji Tachibanaki, Takashi Fukagawa and  
\*Satoru Kawamura ..... ♦ Osaka University

*Substrate specificity and localization of AL-OL coupling reaction in carp cones*

18:25-18:45 *Discussion*  
*Closing Remarks*

