

September 9 (Wed) Room D
Symposium

Symposium on Photo-Biology
"Photo-Biology: Sensing Light and Manipulation with Light"

9 : 00	Opening Remark Prof. Akihisa Terakita (Osaka City University)
Light-sensor	
9 : 05	1L01 "Photochemistry and photobiology in light and life research" Prof. Hideki Kandori (Nagoya Institute of Technology)
9 : 30	1L02 "Probing diversity and possibility of microbial retinal proteins" Prof. Yuki Sudo (Okayama University)
9 : 50	1L03 "Introduction of animal rhodopsins and their optogenetic potentials" Prof. Mitsumasa Koyanagi (Osaka City University)
Optogenetic application	
10 : 10	1L04 "Subcellular optogenetics for controlling cell behavior" Prof. N. Gautam (Washington University, USA)
10 : 35	1L05 "Optogenetic patterning of neural activity" Prof. Hiromu Yawo (Tohoku University)
11 : 00	1L06 "Optogenetical manipulation of neural activity and behavior control" Prof. Akihiro Yamanaka (Nagoya University)
Light-sensing	
11 : 25	1L07 "Tuning mechanisms underlying photoreceptor spectral sensitivity" Prof. Kentaro Arikawa (The Graduate University for Advanced Studies)
11 : 50	1L08 "Light signaling molecule in biological clocks and its role in clock oscillation" Prof. Yoshitaka Fukada (The University of Tokyo)
12 : 15	Closing Remark Prof. Sakiko Shiga (Osaka City University)
Symposium on Spin Photochemistry "New Frontiers in Spin Photochemistry: From Material Science to Biochemistry"	
13 : 20	Opening Remark Prof. Yasuhiro Kobori (Kobe University)
13 : 25	2L01 "Development of singlet oxygen probes based on laser-induced spin polarization" Prof. Akio Kawai (Tokyo Institute of Technology)
13 : 45	2L02 "Spin coherence transfer within photogenerated three-spin systems" Prof. Michael R. Wasielewski (Northwestern University, USA)
14 : 10	2L03 "Spin polarization in the lowest excited triplet state of thermally activated delayed fluorescent molecule" Prof. Tadaaki Ikoma (Niigata University)
14 : 30	2L04 "Highly sensitive detection of the magnetic field effects in flavin containing photochemical systems" Prof. Kiminori Maeda (Saitama University)
14 : 50	2L05 "Transient optical absorption and magnetic intensity modulation based microscopy of photochemical reaction intermediates in isolated flavins and cryptochromes" Prof. Jonathan R. Woodward (The University of Tokyo)
15 : 15	2L06 "Photoexcited triplet states of organic chromophores: teaching old dogs new tricks" Prof. Christopher W. M. Kay (University College London, UK)
Symposium on Artificial Photosynthesis "Artificial Photosynthesis for the Catalytic Transformation with Solar Energy"	
16 : 00	Opening Remark Prof. Yutaka Amai (Osaka City University)
16 : 10	3L01 "Photoreduction of CO ₂ by H ₂ O as an electron donor over all-solid-state photocatalysts" Prof. Kentaro Teramura (Kyoto University)
16 : 40	3L02 "Development of Z-scheme water splitting systems toward solar hydrogen production" Prof. Ryu Abe (Kyoto University)
17 : 10	3L03 "Design and applications of photocatalysts using nanoporous materials: Single-site, plasmonic, metal-organic photocatalysts" Prof. Hiromi Yamashita (Osaka University)
17 : 40	3L04 "Control of photoinduced electron transfer by highly-ordered nanostructures" Prof. Yuji Wada (Tokyo Institute of Technology)
18 : 10	Closing Remark