

June 7, Tuesday

Opening remarks: 9:15-9:20 Hitoshi Tamiaki (Chairman, *Ritsumeikan Univ.*)

O-1 9:20-10:10 (Chairperson: H. Tamiaki, *Ritsumeikan Univ.*)
Self-assembled Dye Architectures: Artificial Nanostructures Inspired by Nature
Frank Würthner
Universität Würzburg, Würzburg, Germany

O-2 10:10-10:40 (Tamiaki)
Photocontrollable Self-assembly
Shiki Yagai
Chiba Univ., Chiba, Japan

Coffee break: 10:40-11:00

O-3 11:00-11:30 (Chairperson: T. Mizoguchi, *Ritsumeikan Univ.*)
Nano-sized Supramolecular Aggregation of Cholesterol-bearing Alkali Metal Complexes
in Aqueous Media
Satoshi Shinoda
Osaka City Univ., Osaka, Japan

Short presentation: 11:30-12:00 (1-min talk for each poster presenter)

Poster session: 13:00-14:20 (Odd number poster presenters, please stand by during 13:00-13:40.
Even number poster presenters, please stand by during 13:40-14:20.)

O-4 14:30-15:20 (Chairperson: F. Würthner, *Universität Würzburg*)
Multimodality Agents for Tumor Imaging and Photodynamic Therapy
Suresh K. Pandey, Amy L. Gryshuk, Munawwar Sajjad, Xiang Zheng, Yihui Chen,
Mohei M. Abouzeid, Janet Morgan, Ivan Charamisinau, Hani A. Nabi, Allan Oseroff,
Ravindra K. Pandey
Roswell Park Cancer Inst., Buffalo, U.S.A.; SUNY, Buffalo, U.S.A.

O-5 15:20-15:40 (Würthner)
Self-aggregation of Synthetic Chlorosomal Chlorophylls Possessing Various Optical
Properties
Michio Kunieda, Hitoshi Tamiaki
Ritsumeikan Univ., Kusatsu, Japan

Coffee break: 15:40-16:00

O-6 16:00-16:40 (Chairperson: R. K. Pandey, *Roswell Park Cancer Inst.*)
Alignment of Conjugated Polymers by Porphyrin Oligomers: A Supramolecular Bundling
Approach
Masayuki Takeuchi, Yohei Kubo, Rie Wakabayashi, Chiaki Fujikoshi, Kenji Kaneko,
Seiji Shinkai
Kyushu Univ., Fukuoka, Japan

O-7 16:40-17:10 (Pandey)
Construction of Nano-structure of Porphyrin J-Aggregate LB Film
Hiroshi Segawa, Masaki Sakai, Shinsuke Okada, Noriko Horikawa, Jotaro Nakazaki
Univ. Tokyo, Tokyo, Japan

- O-8** 17:10-17:40 (Pandey)
Supramolecular Structure and Anion Binding Properties of Novel Oligopyrroles
Hiromitsu Maeda
Ritsumeikan Univ., Kusatsu, Japan

Banquet: 19:30-

June 8, Wednesday

- O-9** 9:15-9:45 (Chairperson: H. Segawa, *Univ. Tokyo*)
Dye-sensitized Solar Cells Using Chlorophyll *a* Derivative as the Sensitizer and Carotenoids Having Different Conjugation Lengths as Redox Spacers: The Mechanism Revealed by Subpicosecond Time-resolved Absorption Spectroscopy of Model System
Xiao-Feng Wang, Junfeng Xiang, Yoshinori Kakitani, Peng Wang, Yasushi Koyama, Shozo Yanagida, Yuji Wada, Kazunori Hamada, Shin-ichi Sasaki, Hitoshi Tamiaki
Kwansei Gakuin Univ., Sanda, Japan; Osaka Univ., Suita, Japan; Ritsumeikan Univ., Kusatsu, Japan

- O-10** 9:45-10:15 (Segawa)
Excited State of Bacteriochlorophyll-*c* Aggregate in Chlorosome Observed by Single Aggregate Fluorescence Spectroscopy
Yutaka Shibata, Yoshitaka Saga, Hitoshi Tamiaki, Shigeru Itoh
Nagoya Univ., Nagoya, Japan; Ritsumeikan Univ., Kusatsu, Japan

Coffee break: 10:15-10:35

- O-11** 10:35-11:15 (Chairperson: H. Ohtaki, *Ritsumeikan Univ.*)
Role of Bio-supermolecules for Epigenetic Information Storage and Inherit Program among Generations Measured by On-chip Single Cell Analysis System
Kenji Yasuda
Univ. Tokyo, Tokyo, Japan

- O-12** 11:15-11:55 (Ohtaki)
Biotransformation of Cholic Acid Using Different Fungi
Amal Al-Aboudi
Univ. Jordan, Amman, Jordan

Closing remarks: 11:55-12:00 Hitoshi Ohtaki (*Ritsumeikan Univ.*)

Business meeting: 13:00-14:00

Poster Session

Please mount your poster by the noon of June 7 and stand by it during the following time: odd number, 13:00-13:40; even number, 13:40-14:20.

- P1** Alignment of Conjugated Polymers by a Supramolecular Bundling Approach (3)
Chiaki Fujikoshi, Yohei Kubo, Kenji Kaneko, Masayuki Takeuchi, Seiji Shinkai
Kyushu Univ., Fukuoka, Japan
- P2** A Key Enzyme of Biosynthesis between Bacteriochlorophyll *c* and *d*, BchU, Derived from the Photosynthetic Green Sulfur Bacterium *Chlorobium tepidum*
Jiro Harada, Yoshitaka Saga, Shigeaki Osumi, Hirozo Oh-oka, Hitoshi Tamiaki
Ritsumeikan Univ., Kusatsu, Japan; Kinki Univ., Higashi-osaka, Japan; Osaka Univ., Toyonaka, Japan
- P3** Error Filtering Effect: Enantioselective Recognition of Chiral Dicarboxylicacids by a Ce(IV) Bis(porphyrinate)
Tomohiro Ikeda, Masato Ikeda, Masayuki Takeuchi, Seiji Shinkai
Kyushu Univ., Fukuoka, Japan
- P4** Synthesis and Anion Binding Properties of Fluorinated Dipyrrolyldiketone BF₂ Complex
Hiromitsu Maeda, Yoshihiro Ito, Yukio Kusunose
Ritsumeikan Univ., Kusatsu, Japan
- P5** Nanoparticle Formation of 3,4-Perylene Dicarboxylic Monoanhydride by Laser Ablation in Liquid Phase
Takuya Kakimoto, Satoru Nishio
Ritsumeikan Univ., Kusatsu, Japan
- P6** Calculation of Transition Dipole-transition Dipole Interactions for BChl *c* Assembly in Solid State
Yoshinori Kakitani, Hiroyoshi Nagae, Yasushi Koyama
Kwansei Gakuin Univ., Sanda, Japan; Kobe City Univ. Foreign Studies, Kobe, Japan
- P7** Function of the Plant Blue Light Receptor Phototropin in the Moss *Physcomitrella patens*
Masahiro Kasahara
Ritsumeikan Univ., Kusatsu, Japan
- P8** Crystal Structures and Luminescence Properties of Dinuclear Platinum(II) Complexes Containing Various Cyclometalating Ligands
Tamami Koshiyama, Mayuko Haruta, Kaori Saito, Yuji Hamada, Hisakazu Takahashi, Masako Kato
Nara Women's Univ., Nara, Japan; SANYO Electric Co., Osaka, Japan
- P9** An Efficient Hydrogen Evolution System Using Viologen-modified Platinum Clusters and 9-Mesityl-10-methylacridinium Ion
Hiroaki Kotani, Kei Ohkubo, Shunichi Fukuzumi
Osaka Univ., Suita, Japan
- P10** Alignment of Conjugated Polymers by a Supramolecular Bundling Approach (1)
Yohei Kubo, Rie Wakabayashi, Kenji Kaneko, Masayuki Takeuchi, Seiji Shinkai
Kyushu Univ., Fukuoka, Japan

- P11** Synthesis and Properties of Dipyrrolylpyrazole
Hiromitsu Maeda, Yukio Kusunose, Chikoto Fujimoto
Ritsumeikan Univ., Kusatsu, Japan
- P12** Dipyrrolyldiketone Difluoroboron Complexes: Novel Anion Sensors with
C-H...X Interactions
Hiromitsu Maeda, Yukio Kusunose
Ritsumeikan Univ., Kusatsu, Japan
- P13** Dipyririn Metal Complexes as Potential Scaffolds to Form Supramolecular Structures
Hiromitsu Maeda, Miki Ito, Masahiro Hasegawa, Takashi Hashimoto, Kaiyu Kubota
Ritsumeikan Univ., Kusatsu, Japan
- P14** Chirality Sensing of Anions in Aqueous Media by Nano-sized Aggregate of Lithium
Complexes.
Satoshi Shinoda, Miki Matsukura, Hiroshi Tsukube
Osaka City Univ., Osaka, Japan
- P15** Self-aggregation of a Synthetic Magnesium Chlorin as a Model for Chlorosomal Antennae
Tadashi Mizoguchi, Ayumi Shoji, Michio Kunieda, Hideaki Miyashita, Mamoru Mimuro,
Hitoshi Tamiaki
Ritsumeikan Univ., Kusatsu, Japan; Kyoto Univ., Kyoto, Japan
- P16** Synthesis of ¹⁸O-Labelled Bacteriochlorophyll-*d* Analogues at the 3¹- and/or 13¹-Positions
as Models of Self-aggregative Chlorosomal Chlorophylls
Hidetada Morishita, Hitoshi Tamiaki
Ritsumeikan Univ., Kusatsu, Japan
- P17** Extremely Long-lived Charge-separated States of Zinc Chlorin-C₆₀ Dyads
Kei Ohkubo, Guolin Li, Ravindra K. Pandey, Zhongping Ou, Hui Zhao, Karl M. Kadish,
Shunichi Fukuzumi
*Osaka Univ., Suita, Japan; Roswell Park Cancer Inst., Buffalo, U.S.A.; Univ. Houston,
Houston, U.S.A.*
- P18** Self-assembly of Amphiphilic Zinc Chlorins in an Aqueous Medium to a Model for
Chlorosome of Green Bacterium
Tomohiro Miyatake, Tamotsu Onishi, Syuusaku Kato, Manabu Fujiwara, Takayuki
Matsushita, Hitoshi Tamiaki
Ryukoku Univ., Otsu, Japan; Ritsumeikan Univ., Kusatsu, Japan
- P19** Synthesis and Self-aggregation of Zinc 3-Hydroxymethyl-bacteriopyrochlorophyll-*a*
Shin-ichi Sasaki, Hitoshi Tamiaki
Ritsumeikan Univ., Kusatsu, Japan
- P20** Self-aggregation of Synthetic Zinc Chlorophyll Derivative Possessing a Fluoroalkyl Group
in a Fluorinated Solvent
Reiko Shibata, Hitoshi Tamiaki
Ritsumeikan Univ., Kusatsu, Japan
- P21** Long-lived Charge-separated States Produced by Photoinduced Electron Transfer in
Supramolecular Complexes of a Bisporphyrin with Acridinium Ion
Makiko Tanaka, Kei Ohkubo, Claude P. Gros, Roger Guilard, Shunichi Fukuzumi
Osaka Univ., Suita, Japan; Université de Bourgogne, Dijon, France

- P22** Supramolecular Gels on Self-assembly of Amphiphilic Zinc Chlorins Possessing a Non-ionic Oxyethylene Chain
Tomohiro Miyatake, Shuntaro Tanigawa, Eiji Takenaka, Manabu Fujiwara, Takayuki Matsushita, Hitoshi Tamiaki
Ryukoku Univ., Otsu, Japan; Ritsumeikan Univ., Kusatsu, Japan
- P23** Alignment of Conjugated Polymers by a Supramolecular Bundling Approach (2)
Rie Wakabayashi, Yohei Kubo, Kenji Kaneko, Masayuki Takeuchi, Seiji Shinkai
Kyushu Univ., Fukuoka, Japan
- P24** Hydrogen-bonded Supramolecular Polymers Based on Triple Hydrogen Bonding Interaction
Shiki Yagai
Chiba Univ., Chiba, Japan