

June 11, Saturday

Opening remarks; 9:00-9:10 Hitoshi Tamiaki (Chairman, *Ritsumeikan Univ.*)

PL-1 9:10-10:10 (Chairperson: H. Tamiaki, *Ritsumeikan Univ.*)
Efficient Luminescence from Supramolecular Nanoaggregates
Ben Zhong Tang
Hong Kong Univ. Sci. Tech, Hong Kong

O-1 10:10-10:40 (H. Tamiaki)
Unique Photochemical Property of Dyes in Inorganic Nano-Space
Tatsuto Yui, Katsuhiko Takagi, Osamu Ishitani
Tokyo Inst. Tech., Tokyo, Japan; KAST, Kawasaki, Japan

Coffee break: 10:40-11:00

O-2 11:00-11:30 (Chairperson: M. Chen, *Univ. Sydney*)
New Ring-Contracted Porphyrinoids: [14]Triphyrin(2.1.1) and Its Metal
Complexes
Zhaoli Xue, Daiki Kuzuhara, Hiroko Yamada
Nara Inst. Sci. Tech., Ikoma, Japan

S-1 11:30-11:37 (M. Chen)
(P31) Magneto-Chiral Dichroism and Circular Dichroism Studies of Chiral J-Aggregates
Based on Porphyrins
Yuichi Kitagawa, Hiroshi Segawa, Kazuyuki Ishii
Univ. Tokyo, Tokyo, Japan

S-2 11:37-11:44 (M. Chen)
(P33) Construction of Artificial Chlorosomal Antenna from a Synthetic
Bacteriochlorophyll-*d* Analog and Observation of Their Photocurrents
Sunao Shoji, Takeshi Hashishin, Hitoshi Tamiaki
Ritsumeikan Univ., Kusatsu, Japan

S-3 11:44-11:51 (M. Chen)
(P34) Novel Supramolecular Assembling System by Using Microfluidic Devices
Munenori Numata, Momoko Takayama, Hitoshi Tamiaki
Kyoto Pref. Univ., Kyoto, Japan; Ritsumeikan Univ., Kusatsu, Japan

S-4 11:51-11:58 (M. Chen)
(P36) Formation of Soft Materials Based on π -Conjugated Anion-Responsive Molecules
Yoshitaka Terashima, Hiromitsu Maeda
Ritsumeikan Univ., Kusatsu, Japan

Lunch: 12:00-13:00

Poster session: 13:00-14:30 (K304 and K305. Odd number poster presenters, please stand by during 13:00-13:45. Even number poster presenters, please stand by during 13:45 - 14:30.)

- O-3** 14:30-15:10 (Chairperson: B. Z. Tang, *HKUST*)
Expanding the Photosynthetic Spectrum Using Red-Shifted Chlorophylls
Min Chen
Univ. Sydney, Sydney, Australia
- O-4** 15:10-15:50 (B. Z. Tang)
Red-Shifted Chlorophylls in Cyanobacteria Isolated from Lake Biwa
Hideaki Miyashita, Satoshi Ohkubo
Kyoto Univ., Kyoto, Japan
- O-5** 15:50-16:10 (B. Z. Tang)
Production of a Novel Chlorophyll Species *in vivo*: Application of the Transformation System for Chlorophyll *d*-Dominated Cyanobacterium
Tohru Tsuchiya
Kyoto Univ., Kyoto, Japan
- O-6** 16:10-16:20 (B. Z. Tang)
Facile conversion from Chlorophyll-*a* to Chlorophyll-*d* *in vitro*
Toru Oba, Yuki Uda, Kohei Matsuda, Takanori Fukusumi, Satoshi Ito, Kazuhisa Hiratani, Hitoshi Tamiaki
Utsunomiya Univ., Utsunomiya, Japan; Ritsumeikan Univ., Kusatsu, Japan

Coffee break: 16:20-16:40

- O-7** 16:40-17:10 (Chairperson: H. Maeda, *Ritsumeikan Univ.*)
Mimicking Multipass Transmembrane Proteins: Folding and Assembly of Alternating Amphiphilic Multiblock Molecules in Liposomal Membranes
Takahiro Muraoka
Tohoku Univ., Sendai, Japan
- O-8** 17:10-17:40 (H. Maeda)
Molecular Hula-Hoop: Observations of Rotary Movement of a Rotor
Yoshinori Takashima, Akira Harada
Osaka Univ., Osaka, Japan
- O-9** 17:40-18:00 (H. Maeda)
Cation-Dependent Supramolecular Assemblies Consisting of π -Conjugated Acyclic Anion Receptors
Bin Dong, Hiromitsu Maeda
Ritsumeikan Univ., Kusatsu, Japan

Closing remarks; 18:00-18:10 Hiromitsu Maeda (*Ritsumeikan Univ.*)

Banquet: 18:30- (K309)

Poster Session (K304 and K305)

Please mount your poster by the noon of June 11 and stand by it during the following time: odd number, 13:00-13:45; even number, 13:45-14:30.

- P1** Metal-Driven Formation of π -Space Based on Acyclic Ligands Arranged in Acute Angles
Hiromitsu Maeda, Ryo Akuta
Ritsumeikan Univ., Kusatsu, Japan
- P2** Library of Anion-Responsive Pyrrole-Based π -Conjugated Molecules Toward Tunable Chiroptical Properties
Yuya Bando, Masanobu Naito, Hiromitsu Maeda
Ritsumeikan Univ., Kusatsu, Japan; Nara Inst. Sci. Tech., Ikoma, Japan
- P3** Soft Materials Based on [2 + 2]-Type Planar Assemblies Consisting of Protonated Dipyrrrolylpyrazoles and Anions
Hiromitsu Maeda, Kengo Chigusa
Ritsumeikan Univ., Kusatsu, Japan
- P4** Effects of Aggregation Structures on Emission Behavior of Cyclic Trinuclear Gold Complexes
Kaori Fujisawa, Masakazu Tamaru, Yuichi Izumi, Kenjiro Uno, Osamu Tsutsumi
Ritsumeikan Univ., Kusatsu, Japan
- P5** Formation of Supramolecular Assemblies Comprising Planar Charged Species
Yohei Haketa, Hiromitsu Maeda
Ritsumeikan Univ., Kusatsu, Japan
- P6** Optical and Electrochemical Properties of Chlorophyll Derivatives
Tomohiro, Miyatake, Masato Hieda, Megumi Kasuno
Ryukoku Univ., Otsu, Japan
- P7** P-N Junction Effect of Multi-Walled Carbon Nanotubes Modified with TiO₂ Nanoparticles for NO₂ Detection
Hidehiro Ikenoko, Takeshi Hashishin, Kazuo Kojima, Jun Tamaki
Ritsumeikan Univ., Kusatsu, Japan
- P8** Synthesis of Amino Acids Possessing Chlorin Moiety and Application to Fmoc Solid-Phase Synthesis of Functional Peptides
Yoshitaka Saga, Yumi Ikeji, Tateaki Wakamiya
Kinki Univ., Higashi-Osaka, Japan
- P9** Cancelled

- P10** 13²,17³-Cyclophosphoride *a* Enol: An Elusive and Abundant Chlorophyll *a* Derivative in Aquatic Environments
Yuichiro Kashiya, Hisami Suga, Akiko Yokoyama, Isao Inoue, Hideaki Miyashita, Kanako Ishikawa, Yusuke Kinoshita, Keisuke Aoki, Koichi Fujita, Daiki Fujinuma, Masami Kobayashi, Tadashi Mizoguchi, Hitoshi Tamiaki
Ritsumeikan Univ., Kusatsu, Japan; JAMSTEC, Yokosuka, Japan; Tsukuba Univ., Tsukuba, Japan; Kyoto Univ., Kyoto, Japan; LBERI, Otsu, Japan
- P11** Photoinduced Energy Transfer from Photoexcited Chlorosomal Zinc Porphyrin Self-Aggregates to a Bacteriochlorin or Chlorin Monomer
Yumiko Kataoka, Yutaka Shibata, Hitoshi Tamiaki
Nara Women's Univ., Nara, Japan; Ritsumeikan Univ., Kusatsu, Japan; Nagoya Univ., Nagoya, Japan
- P12** Optical Properties of *meso*-Hexakis(pentafluorophenyl)-Substituted Hexaphyrin(1.1.1.1.1.1) with Acid and Base
Sho Katsumata, Yoshiya Ikawa, Hiroyuki Furuta
Kyushu Univ., Fukuoka, Japan
- P13** Synthesis and Modifications of α -Linked Oligopyrroles
 Hiromitsu Maeda, Yuto Kawasaki
Ritsumeikan Univ., Kusatsu, Japan
- P14** β -Diketonated Metal Complexes Connected with Chlorophyll Derivatives
Yusuke Kinoshita, Youhei Yamamoto, Hitoshi Tamiaki
Ritsumeikan Univ., Kusatsu, Japan
- P15** New Dipyrrolyl Ligands: Formation of Fused Dipyrrolyl Dimers and Metal Coordination Polymers
 Hiromitsu Maeda, Hiroaki Kobayashi
Ritsumeikan Univ., Kusatsu, Japan
- P16** Aggregation Structures of Gold Nanoparticles Controlled by Surface Anchoring Effects of Liquid Crystal Molecules on Solid Surfaces
Asuna Kuranari, Kouji Ota, Yasunori Yoshioka, Keitarou Yamamoto, Osamu Tsutsumi
Ritsumeikan Univ., Kusatsu, Japan
- P17** Synthesis of 3-Substituted Chlorophyll Derivatives and Their Chemical and Physical Properties
Shinnosuke Machida, Norihisa Hagio, Hitoshi Tamiaki
Ritsumeikan Univ., Kusatsu, Japan
- P18** Conversion of the Peripheral Substituent of Tetrapyrroles with Thiol
 Toru Oba, Kohei Matsuda, Satoshi Ito, Kazuhisa Hiratani, Hitoshi Tamiaki
Utsunomiya Univ., Utsunomiya, Japan; Ritsumeikan Univ., Kusatsu, Japan

- P19** The Stereochemistry of Porphyrinoid Chlorophylls-*c*: The (13²*R*)-Enantiomers are Exclusively Selected as the Photosynthetically Active Pigments in Chromophyte Algae
Tadashi Mizoguchi, Yuki Kimura, Taichi Yoshitomi, Hitoshi Tamiaki
Ritsumeikan Univ., Kusatsu, Japan
- P20** Synthesis and Properties of Sulfur-Containing Chlorophyll Derivatives
Toru Oba, Misaki Morioka, Satoshi Ito, Kazuhisa Hiratani, Mari Yoshizato, Shin-ichi Sasaki, Hitoshi Tamiaki
Utsunomiya Univ., Utsunomiya, Japan; Ritsumeikan Univ., Kusatsu, Japan; Nagahama Bio-Sci. Tech., Nagahama, Japan
- P21** Formation and Control of Metal-Driven Helical π -Conjugated Systems
Hiromitsu Maeda, Takuma Nishimura
Ritsumeikan Univ., Kusatsu, Japan
- P22** Formation of Metal-Bridged Assemblies Comprising Linearly Arranged Oligomers of π -Conjugated Acyclic Ligands
Hiromitsu Maeda, Yuki Nishimura
Ritsumeikan Univ., Kusatsu, Japan
- P23** Self-assemblies of Chlorophyll Derivatives Bonded to Polymers
Tomohiro Miyatake, Kazuma Okada
Ryukoku Univ., Otsu, Japan
- P24** Supramolecular Gels Prepared with Amphiphilic Zinc Chlorins Possessing an Oligooxyethylene Group
Tomohiro Miyatake, Masayuki Takeda, Shuntaro Tanigawa, Ryoji Hirai, Syuusaku Kato, Hitoshi Tamiaki
Ryukoku Univ., Otsu, Japan; Ritsumeikan Univ., Kusatsu, Japan
- P25** Optical Properties of a Dumbbell-Type [26] Hexaphyrin
Yuichi Takenoshita, Yoshiya Ikawa, Hiroyuki Furuta
Kyushu Univ., Fukuoka, Japan
- P26** Coordination and Aggregation of Chlorophylls in Photosynthetic Proteins
Toru Oba, Hitoshi Tamiaki
Utsunomiya Univ., Utsunomiya, Japan; Ritsumeikan Univ., Kusatsu, Japan
- P27** Direct Growth of Vertically Aligned Multi-Walled Carbon Nanotubes on Micro Gap of Interdigitated Au Electrodes by Plasma-Enhanced Chemical Vapor Deposition
Masaki Omae, Takeshi Hashishin, Kazuo Kojima, Jun Tamaki
Ritsumeikan Univ., Kusatsu, Japan

- P28** Physicochemical Properties of Formyl Groups in Natural Chlorophylls: Kinetic and Spectroscopic Analyses
Kana Sadaoka, Yoshitaka Saga
Kinki Univ., Osaka, Japan
- P29** Photoisomerization of Azobenzene Gel by ns and ps Pulsed Laser Irradiation
Kingo Uchida, Shintaro Yamaguchi, Shingo Sakiyama, Tetsuro Katayama,
Yukihide Ishibashi, Hiroshi Miyasaka
Ryukoku Univ., Otsu, Japan; Osaka Univ., Osaka, Japan
- P30** Construction of Chlorophyll Tetramer via Dimerization of Chlorin-Dyad in a Solution
Shin-ichi Sasaki, Keisuke Mizutani, Michio Kunieda, Hitoshi Tamiaki
Nagahama Bio-Sci. Tech., Nagahama, Japan; Ritsumeikan Univ., Kusatsu, Japan
- P31** Magneto-Chiral Dichroism and Circular Dichroism Studies of Chiral J-Aggregates Based on Porphyrins
Yuichi Kitagawa, Hiroshi Segawa, Kazuyuki Ishii
Tokyo Univ., Tokyo, Japan
- P32** Anion-Driven 3D Clusters Based on Cyclic Receptor Oligomers
Hiromitsu Maeda, Tomohiro Shirai
Ritsumeikan Univ., Kusatsu, Japan
- P33** Construction of Artificial Chlorosomal Antenna from a Synthetic Bacteriochlorophyll-*d* Analog and Observation of Their Photocurrents
Sunao Shoji, Takeshi Hashishin, Hitoshi Tamiaki
Ritsumeikan Univ., Kusatsu, Japan
- P34** Novel Supramolecular Assembling System by Using Microfluidic Devices
Momoko Takayama, Munenori Numata, Hitoshi Tamiaki
Kyoto Pref. Univ., Kyoto, Japan; Ritsumeikan Univ., Kusatsu, Japan
- P35** Creation of Hierarchical Polysaccharide Strand: Supramolecular Spinning of Nanofibers by Microfluidic Device
Yusuke Takigami, Munenori Numata, Momoko Takayama
Kyoto Pref. Univ., Kyoto, Japan
- P36** Formation of Soft Materials Based on π -Conjugated Anion-Responsive Molecules
Yoshitaka Terashima, Hiromitsu Maeda
Ritsumeikan Univ., Kusatsu, Japan

- P37** Ordered Inorganic-Organic Hybrid Thin Films Composed of Giant Ring-Shaped Polyoxomolybdates and Liquid-Crystalline Organic Molecules
Kenjiro Uno, Makoto Muto, Sho Wakana, Osamu Tsutsumi
Ritsumeikan Univ., Kusatsu, Japan
- P38** Self-Aggregates of Zinc Chlorins Possessing a Quaternary Ammonium Group in Aqueous Polypeptide Solutions
Tomohiro Miyatake, Mikiya Watanabe, Yumi Mukai
Ryukoku Univ., Otsu, Japan
- P39** *Cis-* and *Trans-*Forms of Chlorophyll Dimers Connected with a Pt(II) Bis-Acetylide Complex
Youhei Yamamoto, Hitoshi Tamiaki
Ritsumeikan Univ., Kusatsu, Japan
- P40** Temperature- and Time-Dependent Changes in the Structure and Composition of Glycolipids in the Green Sulfur Photosynthetic Bacterium *Chlorobium tepidum*
Taichi Yoshitomi, Tadashi Mizoguchi, Hitoshi Tamiaki
Ritsumeikan Univ., Kusatsu, Japan