

June 10, Tuesday

Opening remarks; 9:30-9:40 Hitoshi Tamiaki (Chairman, *Ritsumeikan Univ.*)

PL-1 9:40-10:40 (Chairperson: H. Tamiaki, *Ritsumeikan Univ.*)
Self-Assembly of Rod Amphiphiles into Aqueous Nanostructures
Myongsoo Lee
Yonsei Univ., Seoul, Korea

Coffee break: 10:40-11:00

O-1 11:00-11:30 (Chairperson: H. Tamiaki, *Ritsumeikan Univ.*)
Assembled Structures and Photo-Functions of Liquid-Crystalline Materials Based
on Triaryl Derivatives
Tsukasa Hatano
Ritsumeikan Univ., Kusatsu, Japan

S-1 11:30-11:40 (H. Tamiaki, *Ritsumeikan Univ.*)
(P7) Anion-Driven Helical Structures Based on Acyclic Oligopyrroles
Yohei Haketa and Hiromitsu Maeda
Ritsumeikan Univ., Kusatsu, Japan; PRESTO, JST

S-2 11:40-11:50 (H. Tamiaki, *Ritsumeikan Univ.*)
(P23) Cyanurate-Guided Self-Assembly of Melamine-Appended Perylene Bisimides into
Distinct Supramolecular Architectures
Tomohiro Seki and Shiki Yagai
Chiba Univ., Chiba, Japan; PRESTO, JST

S-3 11:50-12:00 (H. Tamiaki, *Ritsumeikan Univ.*)
(P28) Synthesis and Characterization of *meso*-Aryl-Substituted Subchlorins
Eiji Tsurumaki, Yasuhide Inokuma and Atsuhiko Osuka
Kyoto Univ., Kyoto, Japan

Lunch: 12:00-13:00

Poster session: 13:00-14:30 (K304. 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-2** 14:30-15:00 (Chairperson: M. Lee, *Yonsei Univ.*)
Programmed Pigments Towards Gelation and Function
Norifumi Fujita
Univ. Tokyo, Tokyo, Japan
- O-3** 15:00-15:30 (M. Lee, *Yonsei Univ.*)
Functional Micro Space Regulated by Supramolecular Fibers
Masato Ikeda and Itaru Hamachi
Kyoto Univ., Kyoto, Japan
- O-4** 15:30-16:00 (M. Lee, *Yonsei Univ.*)
Controlled Self-Assembly of Functional Dyes by Multiple Hydrogen Bonds
Shiki Yagai
Chiba Univ., Chiba, Japan; PRESTO, JST
- Coffee break: 16:00-16:30
- O-5** 16:30-17:00 (Chairperson: M. Senge, *Trinity College Dublin*)
Functional Cavities within Self-Assembled Coordination Cages
Michito Yoshizawa
Tokyo Inst. Tech., Yokohama, Japan; PRESTO, JST
- O-6** 17:00-17:30 (M. Senge, *Trinity College Dublin*)
Design and Supramolecular Assembly of Conjugated Multinuclear Schiff-Base
Complexes
Tomoya Ishizuka, Yukiko Isono and Dong-Lin Jiang
Inst. Mol. Sci., Okazaki, Japan; PRESTO, JST
- O-7** 17:30-18:00 (M. Senge, *Trinity College Dublin*)
Self-Assembly of π -Electronic Chromophores via an Amphiphilic Design Strategy
Kentaro Tashiro
Nat. Inst. Mater. Sci., Tsukuba, Japan

Break: 18:00-18:30

Banquet: 18:30- (2F)

June 11, Wednesday

PL-2 9:30-10:30 (Chairperson: H. Maeda, *Ritsumeikan Univ.*)
Synthesis and Optical Properties of Unsymmetrically Substituted Porphyrins
Mathias O. Senge
Trinity College Dublin, Dublin, Ireland

Coffee break: 10:30-10:50

O-8 10:50-11:20 (Chairperson: H. Maeda, *Ritsumeikan Univ.*)
Porphyrin Assemblies in Solution and on Surface
Joe Otsuki
Nihon Univ., Tokyo, Japan

O-9 11:20-11:50 (H. Maeda, *Ritsumeikan Univ.*)
A Self-Assembled Nanotube of Cyclic Porphyrin Dimers and Its Inclusion of C₆₀
in a Linear Arrangement Affording
Supramolecular Peapod
Fumito Tani, Hirofumi Nobukuni, Yuichi Shimazaki and Yoshinori Naruta
Kyushu Univ., Fukuoka, Japan; Ibaraki Univ., Mito, Japan

Closing remarks; 11:50-12:00 Hiromitsu Maeda (*Ritsumeikan Univ.*)

Poster Session (K304)

Please mount your poster by the noon of June 10 and stand by it during the following time: odd number, 13:00-13:45; even number, 13:45-14:30.

- P1** Synthesis and Properties of π -Fused Acyclic Anion Receptors
Hiromitsu Maeda and Yuya Bando
Ritsumeikan Univ., Kusatsu, Japan; PRESTO, JST
- P2** Photoresponsive Dithienylethene-Urea-Based Organogels with Reversed Behavior
Masako Akazawa, Kingo Uchida, Yurie Chaki, Jaap J. D. de Jong, Jetsuda
Areephong, Marc Stuart, Giuseppe Caroli, Wesley R. Browne and
Ben L. Feringa
Ryukoku Univ., Otsu, Japan; Univ. Groningen, Groningen, The Netherlands
- P3** Synthesis and Properties of Trisdipyrin-Coupled Benzenes
Hiromitsu Maeda, Kota Doi, Kenichi Tsukamoto and Masahiro Hasegawa
Ritsumeikan Univ., Kusatsu, Japan; PRESTO, JST
- P4** Synthesis and Supramolecular Assemblies of Alkoxy-Substituted Acyclic Anion
Receptors
Hiromitsu Maeda and Nazuki Eifuku
Ritsumeikan Univ., Kusatsu, Japan; PRESTO, JST
- P5** Diol-Substituted Boron Complexes of Dipyrrolydiketones and Covalently Linked
“Pivotal” Dimers as Anion Receptors
Hiromitsu Maeda, Yasunobu Fujii, Konomi Shimomura and Yuta Mihashi
Ritsumeikan Univ., Kusatsu, Japan; PRESTO, JST
- P6** Methanol-Locked Conformers in Zinc Chlorophyll Dimers as Models of
Oligomeric Chlorophylls in Photosynthetic Apparatus
Hitoshi Tamiaki, Kazuhiro Fukai and Michio Kunieda
Ritsumeikan Univ., Kusatsu, Japan
- P7** Anion-Driven Helical Structures Based on Acyclic Oligopyrroles
Yohei Haketa and Hiromitsu Maeda
Ritsumeikan Univ., Kusatsu, Japan; PRESTO, JST
- P8** Functional Analysis of Geranylgeranyl Reductase Gene, *CT2256*, Involved in
Biosynthetic Pathways of Both Phytolated BChl *a* and $\Delta 2,4$ -Phytadienylated
Chl *a* in *Chlorobium tepidum*
Jiro Harada, Shohei Miyago, Tadashi Mizoguchi, Shunsuke Takahashi, Chihiro
Azai, Kazuhito Inoue, Hitoshi Tamiaki and Hirozo Oh-oka
*Ritsumeikan Univ., Kusatsu, Japan; Osaka Univ., Toyonaka, Japan; Kanagawa
Univ., Hiratsuka, Japan*

- P9** Topological Control in Coordination Nanorings by Bond Formation
Takashi Hashimoto and Hiromitsu Maeda
Ritsumeikan Univ., Kusatsu, Japan; PRESTO, JST
- P10** Cl⁻ Anion-Responsive Luminescent Tripode – Eu³⁺ Complex: Ligand Tuning of Complex Stoichiometry and Anion Sensing Selectivity
Yumiko Kataoka, Dharam Paul, Satoshi Shinoda, Hiroyuki Miyake and Hiroshi Tsukube
Ritsumeikan Univ., Kusatsu, Japan; Osaka City Univ., Osaka, Japan
- P11** Self-Aggregative Zinc Porphyrins Derived from Chlorophyll-*a*. Effect of 13- and/or 15-C=O Group for *J*-Aggregation
Michio Kunieda and Hitoshi Tamiaki
Ritsumeikan Univ., Kusatsu, Japan
- P12** Syntheses and Self-Assembling of *meso*-Azaindolyl and Triazolyl Zn(II) Porphyrins
Chihiro Maeda, Hiroshi Shinokubo and Atsuhiko Osuka
Kyoto Univ., Kyoto, Japan
- P13** Formation of Anion-Responsive Acyclic Oligopyrroles and Their Organized Structures
Hiromitsu Maeda, Yoshihiro Ito and Yohei Haketa
Ritsumeikan Univ., Kusatsu, Japan; PRESTO, JST
- P14** Photoresponsive Rolling and Bending of Thin Crystals of Chiral Diarylethenes
Kingo Uchida, Shin-ichiro Sukata, Yuji Matsuzawa, Masako Akazawa, Akiko Morikawa, Jaap J. D. de Jong, Nathalie Katsonis, Yuko Kozima, Shinichiro Nakamura, Jetsuda Areephong, Auke Meetsma and Ben L. Feringa
Ryukoku Univ., Otsu, Japan; Univ. Groningen, Groningen, The Netherlands
- P15** Synthesis and Properties of C₃-Bridged Oligopyrroles with Heteroaryl Moieties as Potential Building Subunits of Anion-Responsive π -Conjugated Oligomers
Hiromitsu Maeda, Yuta Mihashi and Yohei Haketa
Ritsumeikan Univ., Kusatsu, Japan; PRESTO, JST
- P16** Synthesis and Optical Property of Ethynylated Chlorophyll Derivatives at the C3 Position
Hitoshi Tamiaki, Keisuke Mizutani, Michio Kunieda and Shin-ichi Sasaki
Ritsumeikan Univ., Kusatsu, Japan; Nagahama Inst. Bio-Sci. Tech., Nagahama, Japan
- P17** Synthesis of Amphiphilic Zinc Chlorins and Their Complexation with Polypeptides
Tomohiro Miyatake and Yumi Mukai
Ryukoku Univ., Otsu, Japan

- P18** Creation of Novel Soft-Materials through Self-Organization of Semi-Artificial β -1,3-Glucan/Polymer Composites
Munenori Numtata, Kouta Sugikawa and Seiji Shinkai
Kyoto Pref. Univ., Kyoto, Japan; Kyushu Univ., Fukuoka, Japan; Sojo Univ., Kumamoto, Japan
- P19** Self-Organization and Tunable Optical Properties of Cholesterol-Appended Merocyanine Dyes
Shiki Yagai and Hikaru Saito
Chiba Univ., Chiba, Japan; PRESTO, JST
- P20** Topology Control of Free-Base [32]Heptaphyrin(1.1.1.1.1.1.1), Leading to Strong Möbius Aromaticity
Shohei Saito and Atsuhiko Osuka
Kyoto Univ., Kyoto, Japan
- P21** Flavor Sensing with Fluorogenic Vesicles and Cell Penetrative Polycations
Tomohiro Miyatake, Yasuhiko Saitoh, Svetlana Litvinchuk and Stefan Matile
Ryukoku Univ., Otsu, Japan; Univ. Geneva, Geneva, Switzerland
- P22** Temperature-Dependent Spectral Changes of Self-Assembly of Zinc Chlorophyll Derivatives Esterified by Linear Alcohols at the 17-Propionate: Effect of Hydrophobic Interaction among Esterifying Chains
Yoshitaka Saga, Yuichi Nakai and Hitoshi Tamiaki
Kinki Univ., Higashi-Osaka, Japan; Ritsumeikan Univ., Kusatsu, Japan
- P23** Cyanurate-Guided Self-Assembly of Melamine-Appended Perylene Bisimides into Distinct Supramolecular Architectures
Tomohiro Seki and Shiki Yagai
Chiba Univ., Chiba, Japan; PRESTO, JST
- P24** *In-Vitro* Enzymatic Methylation at the C-20 Position of Chlorophylls: Substrate Specificity of BchU and Its Methylation Mechanism Explored by the Site-Directed Mutagenesis and Synthetic Substrates
Hitoshi Tamiaki, Shunsuke Takahashi, Jiro Harada and Hirozo Oh-oka
Ritsumeikan Univ., Kusatsu, Japan; Osaka Univ., Toyonaka, Japan
- P25** Two Dimensionally Extended Porphyrin Tapes: Shape-Dependent Study of Two-Photon Absorption Properties
Takayuki Tanaka, Yasuyuki Nakamura, Naoki Aratani, So Young Jang, Jon Min Lim, Kil Suk Kim, Dongho Kim and Atsuhiko Osuka
Kyoto Univ., Kyoto, Japan; Yonsei Univ., Seoul, Korea
- P26** Self-Organized Structures of π -Conjugated Acyclic Anion Receptors
Hiromitsu Maeda, Yoshitaka Terashima, Yohei Haketa, Masahiro Shimizu, Hidetomo Mukai and Kazuchika Ohta
Ritsumeikan Univ., Kusatsu, Japan; PRESTO, JST; Shinshu Univ., Ueda, Japan

- P27** Effect of the Fifth Ligand on Demetallation of Chlorophylls
Toru Oba, Kanae Togo, Satoshi Ito and Kazuhisa Hiratani
Utsunomiya Univ., Utsunomiya, Japan
- P28** Synthesis and Characterization of *meso*-Aryl-Substituted Subchlorins
Eiji Tsurumaki, Yasuhide Inokuma and Atsuhiko Osuka
Kyoto Univ., Kyoto, Japan
- P29** Formation of Nanorings by Hydrogen-Bonded Rosettes Featuring
Oligo(*p*-phenyleneethynylene) Rigid Rods
Shiki Yagai and Kanako Unoike
Chiba Univ., Chiba, Japan; PRESTO, JST
- P30** Binding Constant of Analogues of the Amino Acid Residues to Chlorophylls
Toru Oba, Yoshimi Yoshioka, Satoshi Ito and Kazuhisa Hiratani
Utsunomiya Univ., Utsunomiya, Japan
- P31** Optical Properties of Synthetic Chlorophyll Derivatives Possessing Various
Substituents at the C3 and C13 Positions
Hitoshi Tamiaki, Mari Yoshizato, Michio Kunieda and Shin-ichi Sasaki
*Ritsumeikan Univ., Kusatsu, Japan; Nagahama Inst. Bio-Sci. Tech., Nagahama,
Japan*
- P32** Highly Efficient and Selective Quenching of a Luminescent Europium Complex
with Fluoride Ion
QianMing Wang and Hitoshi Tamiaki
Ritsumeikan Univ., Kusatsu, Japan