

## December 1, Saturday

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

**PL-1** 9:10-10:20 (Chairperson: H. Tamiaki, *Ritsumeikan Univ.*)  
Synthesis and Assembly of (Bacterio)chlorophylls in Green Bacteria  
Kajetan Vogl, Marcus Tank, Gregory S. Orf, Robert E. Blankenship, Donald A. Bryant  
*Pennsylvania State Univ., USA.; Washington Univ. St. Louis, USA.; Montana State Univ., USA*

Coffee break: 10:20-10:30

**O-1** 10:30-11:10 (Chairperson: D. A. Bryant, *Pennsylvania State Univ.*)  
Genetic Analysis of the Green Sulfur Bacterium *Chlorobaculum limnaeum*  
Jiro Harada, Tadashi Mizoguchi, Yusuke Tsukatani, Masato Noguchi, Hitoshi Tamiaki  
*Kurume Univ. Sch. Med., Fukuoka, Japan; Ritsumeikan Univ., Kusatsu, Japan; PRESTO, JST*

**ST-1** 11:10-11:20 (Bryant)  
Reconstruction of Self-Aggregates of Natural Bacteriochlorophyll-*c* Mixture and Their Microscopic Observation  
Sunao Shoji, Tadashi Mizoguchi, Hitoshi Tamiaki  
*Ritsumeikan Univ., Kusatsu, Japan*

**ST-2** 11:20-11:30 (Bryant)  
Chemistry of Porphyrinoid Chlorophylls-*c*  
Tadashi Mizoguchi, Hitoshi Tamiaki  
*Ritsumeikan Univ., Kusatsu, Japan*

**ST-3** 11:30-11:40 (Bryant)  
Structure-Dependent Pheophytinization Properties of Natural Chlorophylls and Their Synthetic Analogs  
Kana Sadaoka, Hitoshi Tamiaki, Yoshitaka Saga  
*Kinki Univ., Osaka, Japan; Ritsumeikan Univ., Kusatsu, Japan*

**ST-4** 11:40-11:50 (Bryant)  
Detoxification Catabolism of Chlorophyll Associated with Protistan Herbivory in Aquatic Ecosystems  
Yuichiro Kashiya, Akiko Yokoyama, Hitoshi Tamiaki  
*Ritsumeikan Univ., Kusatsu, Japan; PRESTO, JST; Univ. Tsukuba, Tsukuba, Japan*

**ST-5** 11:50-12:00 (Bryant)  
Characterization of Synthetic  $\beta$ -Diketonated Chlorophyll Derivatives  
Yusuke Kinoshita, Michio Kunieda, Yuji Mikata, Hitoshi Tamiaki  
*Ritsumeikan Univ., Kusatsu, Japan; Nara Women's Univ., Nara, Japan*

Lunch: 12:00-13:00

- O-2** 13:00-13:50 (Chairperson: J. Harada, *Kurume Univ.*)  
Seeking the True Function of Chlorophyllase After One Hundred Years of  
Discovery  
Ryouichi Tanaka  
*Hokkaido Univ., Sapporo, Japan*
- O-3** 13:50-14:30 (Harada)  
Chlorophyllide *a* Oxidoreductases, Important Nitrogenase-Like Enzymes with  
Versatile Functions  
Yusuke Tsukatani, Haruki Yamamoto, Jiro Harada, Tadashi Mizoguchi, Yuichi  
Fujita, Hitoshi Tamiaki  
*Ritsumeikan Univ., Kusatsu, Japan; PRESTO, JST; Nagoya Univ., Nagoya, Japan;  
Kurume Univ. Sch. Med., Fukuoka, Japan*

Coffee break: 14:30-15:00

- O-4** 15:00-15:50 (Chairperson: Y. Tsukatani, *Ritsumeikan Univ.*)  
Chlorophyll Biosynthesis under Anaerobic Conditions in Cyanobacteria  
Yuichi Fujita, Rina Aoki, Ryoma Tsujimoto  
*Nagoya Univ., Nagoya, Japan*
- O-5** 15:50-16:30 (Tsukatani)  
Alteration of the Chlorophyll Composition of the Chlorophyll *d*-Dominated  
Cyanobacterium *Acaryochloris marina*  
Tohru Tsuchiya  
*Kyoto Univ., Kyoto, Japan*

Closing remarks; 16:30-16:40 Kenji Nagashima (*Kanagawa Univ.*)

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