

Schedule for the 2nd CRL International Forum
‘Tokyo Tech-HHU Düsseldorf Joint Symposium
on Photosynthesis as a New Chemical Resource’

Tokyo Tech Campus Innovation Center

March 4-5, 2015

March 4 9:30~ 4 talks, 13:30~ 5 talks, poster session, banquet

March 5 10:00~ 3 talks, 13:30~ 4 talks

25 min talk and 5 min discussion

Invited speakers: 35 min talk and 10 min discussion

(Updated January 30)

March 4 (Wednesday), 2015 (day 1)

9:30- 9:35 **Toru Hisabori (Vice-Director of CRL, Tokyo Institute of Technology)**

Opening Remarks

Session I Chair: Toru Hisabori (CRL, Tokyo Institute of Technology)

9:35-10:05 **Masato Nakai (Osaka University)**

Evolution of the Chloroplast Protein Import System

10:05-11:00 **Peter Westhoff (HHU Düsseldorf)**

Evolution of C4 photosynthesis – Lessons for Improving the Carbon Use Efficiency of C3 Crops

11:00-11:10 Coffee Break

Session II Chair: Peter Westhoff (HHU Düsseldorf)

11:10-11:40 **Satoru Watanabe (Tokyo University of Agriculture)**

DNA Replication of Cyanobacterial Multi-Copy Chromosomes

11:40-12:10 **Yukako Hihara (Saitama University)**

Photosynthesis-Dependent Transcriptional Regulation in Cyanobacteria

12:10-13:30 Lunch Break

Session III **Chair: Sousuke Imamura (CRL, Tokyo Institute of Technology)**

13:30-14:00 **Yoshitaka Nishiyama (Saitama University)**

Redox Regulation of Protein Synthesis in Photosynthetic Organisms

14:00-14:45 **Georg Groth (HHU Düsseldorf)**

Selective Inhibitors for C4 Enzymes: A Structural-Based Approach to Weed Control

14:45 -16:40 Poster Session

Session IV **Chair: Marion Eisenhut (HHU Düsseldorf)**

16:40-17:10 **Kazuhito Inoue (Kanagawa University)**

Photobiological Hydrogen Production Using Nitrogenase of Filamentous Cyanobacteria

17:10-17:40 **Shigeki Ehira (Tokyo Metropolitan University)**

Cell-Specific Metabolic Engineering of Filamentous Cyanobacteria for Biofuel Production

17:40-18:10 **Hiroyuki Ohta (SBB, Tokyo Institute of Technology)**

Lipid Remodeling Under Nutrient Starvation in Microalgae and Higher Plants and Its Application for Oil Production

18:30 - 20:30 Banquet

March 5 (Thursday), 2015 (day 2)

Session V **Chair: Kan Tanaka (CRL, Tokyo Institute of Technology)**

10:00-10:30 **Sousuke Imamura (CRL, Tokyo Institute of Technology)**

Regulation of Nitrogen Assimilation in the Unicellular Red Alga *Cyanidioschyzon merolae*

10:30-11:15 **Marion Eisenhut (HHU Düsseldorf)**

Giving Function to the Unknown – the Novel Protein Family MNX Facilitates Manganese Export in Oxygenic Photosynthetic Organisms

11:15-11:45 **Keisuke Yoshida (CRL, Tokyo Institute of Technology)**
Toward the Elucidation of Chloroplast Redox Network for Supporting
Photosynthesis

11:45-13:15 Lunch Break

Session VI **Chair: Georg Groth (HHU Düsseldorf)**
13:15-13:45 **Mitsumasa Hanaoka (Chiba University)**
Light Sensing in Chloroplasts
13:45-14:30 **Jun Minagawa (National Institute of Basic Biology)**
Dissipation of Excess Light Energy in *Chlamydomonas reinhardtii*

14:30-14:40 Coffee Break

Session VII **Chair: Jun Minagawa (National Institute of Basic Biology)**
14:40-15:10 **Yuki Kobayashi (CRL, Tokyo Institute of Technology)**
Tetrapyrrole Signaling in Abscisic Acid Response
15:10-15:40 **Shinji Masuda (SBB, Tokyo Institute of Technology)**
The Plastidial Stringent Response Regulates Plant Growth Under Starvation
Conditions
15:40-15:45 **Peter Westhoff (Vice-President of Research, HHU Düsseldorf)**
Closing Remarks