



# **“1<sup>st</sup> International Workshop of Cyanofactory”**

**6<sup>th</sup> March – 7<sup>th</sup> March 2014**

**Tokyo University of Agriculture & Technology  
Green Hall, Koganei Campus**

## **Day 1; 6<sup>th</sup> March 2014**

**13:00 – 13:05      Opening remark**

**13:05 – 13:15      Welcome Address      Dr. Tadashi MATSUNAGA**

Professor, Research Supervisor “Creation of Basic Technology for Improved Bioenergy Production through Functional Analysis and Regulation of Algae and Other Aquatic Microorganisms”, JST President, Tokyo University of Agriculture & Technology

**13:15 – 13:30 Introduction      Dr. Koji SODE**

Principal Investigator, Cyanofactory, CREST, JST  
Professor, Department of Biotechnology and Life-science, Graduate School of Engineering  
Tokyo University of Agriculture & Technology

## **13:30 – 16:30      INVITED LECTURE**

**13:30 – 14:00      “Design, engineering, and construction of photosynthetic microbial cell factories for renewable solar fuel production”**

**Dr. Peter LINDBLAD**

Coordinator “CyanoFactory”, FP7 project  
Professor, Microbial Chemistry, Department of Chemistry – Ångström Laboratory  
Uppsala University, Sweden

**14:00 – 14:30      “Strategies to improve the robustness and functionality of a cyanobacterial chassis based on *Synechocystis* sp. PCC 6803”**

**Dr. Paula TAMAGNINI**

Associate Professor, Department of Biology, Faculty of Science, University of Porto, Portugal  
MicroBioSyn – Bioengineering and Synthetic Microbiology, IBMC (Institute for Molecular and Cell Biology)

**14:30 – 15:00 Coffee Break**



**15:00 – 15:30** “Metabolic engineering of cyanobacteria for the production of hydrogen from water”

**Dr. Matthias RÖGNER**

Professor, Chair, Department of Plant Biochemistry, Faculty of Biology and Biotechnology,  
Ruhr-Universität Bochum, Germany

**15:30 – 16:00** “Riboregulators to control gene expression in *Synechocystis* sp. PCC 6803”

**Dr. Koichi ABE**

Project Assistant Professor, Department of Biotechnology and Life-science, Graduate School of  
Engineering, Tokyo University of Agriculture & Technology  
CREST, JST

**16:00 – 16:30** “Ionic liquids for downstream processing in Cyanofactory”

**Dr. Nobuhumi NAKAMURA**

Professor, Department of Biotechnology and Life-science, Graduate School of Engineering  
Tokyo University of Agriculture & Technology  
CREST, JST

**17:00 – 19:30 Poster Session**

**<”Ellipse” 3<sup>rd</sup> auditorium >**



**Day 2; 7<sup>th</sup> March 2014**

**9:30 – 12:15 INVITED LECTURE**

**9:30 – 10:00 “Engineering RNA to control gene expression in living cells”**

**Dr. Yohei YOKOBAYASHI**

Associate Professor, Department of Biomedical Engineering, College of Engineering, University of California, Davis

**10:00 – 10:30 “Metabolic engineering of the eukaryotic diatom for enhanced biofuel production”**

**Dr. Tsuyoshi TANAKA**

Associate Professor, Department of Biotechnology and Life-science, Graduate School of Engineering, Institute of Engineering, Tokyo University of Agriculture & Technology  
JST, CREST

**10:30 – 11:00 Coffee Break**

**11:00 – 11:30 “Key transcription factors of light-harvesting and metabolic regulation in *Synechocystis* sp. PCC 6803”**

**Dr. Yukako HIHARA**

Associate Professor, Faculty of Science, Department of Biochemistry and Molecular Biology, Graduate School of Science and Engineering, Saitama University

**11:30 – 12:00 “Genetic engineering of the transcriptional regulators for bioplastic and hydrogen production in *Synechocystis* sp. PCC 6803”**

**Dr. Takashi OSANAI**

Visiting Scientist, Metabolic Systems Research Team, Metabolomics Research Group, RIKEN Center for Sustainable Resource Science

**12:00 – 12:15 Concluding Remarks**

