



## RIKEN CSRS Workshop: Metabolomics to Better Understand Plant Specialized Metabolism

### Program Day 1

17thSep2013 (Room, C212)

- |          |   |
|----------|---|
| 10:20 AM | Kazuki Saito (RIKEN)<br>Opening remarks   |
| 10:35 AM | Wolfram Weckwerth (University of Vienna)<br>Plant metabolomics – digging in the 1001 metabolome                                     |
| 11:05 AM | Hirofumi Nakagami (RIKEN)<br>Shotguns for protein hunting   |
| 11:30 AM | Lunch   |
| 13:00 AM | Hitoshi Sakakibara (RIKEN)<br>Highly sensitive and high-throughput profiling of phytohormones and its application to gene discovery |
| 13:25 PM | Jun Kikuchi (RIKEN)<br>NMR technical advances for contributing to research on low-carbon society                                    |
| 1:50 PM  | Masanori Arita (The University of Tokyo)<br>How to share information among research groups  |
| 2:15 PM  | Yozo Okazaki (RIKEN)<br>Plant lipidomics using LC-MS and its application for discovery of a new functional plant lipid              |
| 2:35 PM  | Break   |



- 3:00 PM Ryo Nakabayashi (RIKEN)  
S-omics: comprehensive analysis for sulfur-containing metabolites  
by LC-FTICR-MS
- 3:20 PM Yuji Sawada (RIKEN)  
Integrated LC-MS/MS system for plant metabolomics
- 3:40 PM Akira Oikawa (Yamagata University)  
CE-MS metabolomics
- 4:00 PM Atsushi Fukushima (RIKEN)  
Development of metabolite profiling database for knock-out  
mutants in Arabidopsis (MeKO)
- 4:30 PM Lab tour
- 6:30 PM Dinner

## Program Day 2

18thSep2013 (Room, C206/208)

- 9:00 AM Oliver Team (University of California, Davis)
- 9:25 AM Lloyd Team (The Samuel Roberts Noble Foundation)
- 10:15 AM Break
- 10:35 AM Basil Nikolau (Iowa State University)  
NSF-JST metabolomics@ISU - deciphering novel fatty acid  
metabolic processes in Arabidopsis
- Lucas Showman (Iowa State University)  
High-resolution Mass Spectrometry Analysis of Acyl-acyl Carrier  
Protein Pools in an *E. coli* KASIII Mutant



Xin Guan (Iowa State University)

Mitochondrial FAS contributes to the synthesis of lipid A-like molecules in Arabidopsis

Alexis Campbell (Iowa State University)

The role of metabolomics in understanding gene redundancy in fatty acid metabolism: Case study of fatty acid elongase

11:35 AM

Closing

