



Student Workshop on Extremophile Biochemistry

March 5 (Tue), 2019

A2-304, Katsura Campus

- 10:20 **Opening remarks** by Professor Haruyuki Atomi
- 10:30 Elizabeth Rowland, University of Illinois at Urbana-Champaign, USA.
Characterization of virus-host interactions in *Sulfolobus islandicus*
- 11:00 Takahiro Shimosaka, Kyoto University, Japan.
Identification and characterization of a novel dephospho-CoA kinase in the hyperthermophilic archaeon *Thermococcus kodakarensis*
- 11:25 Kristen Farley, University of Illinois at Urbana-Champaign, USA.
Deciphering the role of putative methanol methyltransferase genes in the gut-associated hydrogenotrophic methanogen *Methanobrevibacter smithii*
- 11:55 Yosuke Toyotake, Kyoto University, Japan.
In vivo* characterization of novel lysophosphatidic acid acyltransferase homologs from *Shewanella livingstonensis* Ac10 and *Escherichia coli
- 12:10 **Lunch**
- 13:10 Masahiro Yamada, Kyoto University, Japan
Construction of a targeted gene disruption system of the hyperthermophilic archaeon, *Pyrococcus chitonophagus* (*Thermococcus chitonophagus*)
- 13:25 Alex Phillips, University of Illinois at Urbana-Champaign, USA.

Transposon mutagenesis highlights essential genes and genomic organization in *Sulfolobus islandicus*

13:55 Fumiaki Yokoyama, Kyoto University, Japan
Effects of the growing environment on membrane vesicle production by *Shewanella vesiculosa* HM13

14:10 Heidi Doden, University of Illinois at Urbana-Champaign, USA.
Characterization of oxo-bile acid metabolism and recombinant 12 α -hydroxysteroid dehydrogenases in human gut bacteria

14:40 Closing remarks

Lab tour, Facility tour

JGP Seminar

15:30 Isaac Cann, University of Illinois at Urbana-Champaign, USA.
Molecular analysis of arabinoxylan sensing and degradation by the human colonic bacterium *Bacteroides intestinalis*