



MU-OU:CRS

Osaka University - Advanced Seminar in Bioscience and Biotechnology

19 December 2019

Room K546 Faculty of Science, Mahidol University, Thailand

13:15-13:30 **Registration**

Session I: Microbial and Enzyme Biotechnology

13:30-13:50 **Metabolic engineering of lactic acid bacteria for production of optically pure lactic acid**
Asst. Prof. Kenji Okano (Synthetic Bioengineering Lab)

13:50-14:10 **Protein engineering and applications of enzymes from extremophiles**
Assoc. Prof. Yuichi Koga (Industrial Biochemical and Cellular Engineering Lab)

14:10-14:30 **Antibiotic discovery by activation of cryptic secondary metabolism in actinomycetes**
Assoc. Prof. Shigeru Kitani (Molecular Microbiology Lab)

14:30-14:50 **Adaptation mechanism to high-temperature stress in *Saccharomyces cerevisiae* SPY3**
Assoc. Prof. Minetaka Sugiyama (Macromolecular Biotechnology Lab)

14:50-15:00 **Break**

Session II: Plant and Animal Cell Biotechnology

15:00-15:20 **Elucidation of biosynthesis mechanism of plant-derived biopolymers and its utilization**
Asst. Prof. Hiroyuki Kajiura (Applied Microbiology Lab)

15:20-15:40 **Application of genome editing technology to reduce toxic steroidal glycoalkaloids in potato**
Asst. Prof. Shuhei Yasumoto (Cell Technology Lab)

15:40-16:00 **Design of stable cell production system for regenerative therapy**
Asst. Prof. Ikki Horiguchi (BioProcess Systems Engineering Lab)

16:00-16:30 **Discussion for future collaboration**

Pre-registration:

please contact Ms. Monludée Phianlertloy

Tel: 0-2201-5920 monludée.phianlertloy@mahidol.ac.th