

- October 11, 2019, 13:30–14:50 (Room 321)  
Chair: Hah Young Yoo (Sangmyung University)

**S661**

**13:30-13:50**



Enhanced Stress Tolerance of Diploid Microalgae: Better Option for Outdoor Cultivation

Won-Kun PARK<sup>1</sup>, Minsoo KWAK<sup>2</sup>, Byuong-ryool JEONG<sup>2</sup>, Yong Keun CHANG<sup>2,3</sup>

<sup>1</sup>Department of Chemistry and Energy Engineering, Sangmyung University, Seoul, Korea,

<sup>2</sup>Department of Chemical and Biomolecular Engineering, Korea Advanced Institute of Science and Technology, Daejeon, Korea, <sup>3</sup>Advanced Biomass R&D Center, Daejeon, Korea

**S662**

**13:50-14:02**

Engineering of Nannochloropsis Salina for Improved Growth and Lipid Biosynthesis Using FACS-based Screening

Ae Jin RYU<sup>1</sup>, Byeong-ryool JEONG<sup>2</sup>, Yong Keun CHANG<sup>1,2</sup>, Ki Jun JEONG<sup>1,3</sup>

<sup>1</sup>Department of Chemical and Biomolecular Engineering, Korea Advanced Institute of Science and Technology (KAIST), Daejeon, Korea, <sup>2</sup>Advanced Biomass R&D Center (ABC), KAIST, Daejeon, Korea, <sup>3</sup>Institute for the BioCentury, KAIST, Daejeon, Korea

**S663**

**14:02-14:14**

Effect of Light Conditions and Mixotrophic Cultivation in Green Microalgae

Jae Min JOUN, Anil Kumar PATEL, Sang Jun SIM

Department of Chemical and Biological Engineering, Korea University, Seoul, Korea

**S664**

**14:14-14:26**

An effect of Addition of Aqueous Phase Being a HTL Product on Microalgae Growth

Seong-Eun SUH, Jong-In WON

Department of Chemical Engineering, Hongik University, Seoul, Korea

**S665**

**14:26-14:38**

Enhancement of Biomass, Lipid, and Unsaturated Fatty Acid Production in *Porphyridium cruentum* Cultured in 14L LED Bioreactor Using a Combination of Wavelength and low pH in Second-phase Culture System

So Hee KIM, Gwi-Teak JEONG, Sung-Koo KIM

Department of Biotechnology, Pukyong National University, Busan, Korea

**S666**

**14:38-14:50**

A Novel Energy-Efficient Method to Harvest Microalgae Using Several Types of Sorbents, PEI-Cotton and PEI-AlgBF

Chorok JIN, Hoseon KIM, Yunhwan PARK, Sok KIM, Yoon-e CHOI

Department of Life science, Korea university, Seoul, Korea