

Session F1: Bioprocess Technology and Engineering

June 23 (Friday), Room AC122, Room MA106, 1st floor Management Building I

16:40 Invited Speech

A conceptual and optimized process design of biomass-coal blends in a hybrid power plant with CO₂ capture

Prof. Wei Wu

Department of Chemical Engineering, National Cheng Kung University

17:05 F-1: A potential source of natural red colouring compounds – Betacyanin
Hui Yi Leong, C Pau Loke Show, John Chi-Wei Lan, Chien Wei Ooi and Advina Lizah Julkifle*, University of Nottingham Malaysia Campus, Selangor Darul Ehsan, Malaysia*

17:20 F-2: Enhancing protein production yield from CHO cells by CRISPR interference (CRISPRi)
Chih-Che Shen and Yu-Chen Hu, National Tsing Hua University, Hsinchu, Taiwan*

17:35 F-3: Improve the contamination of *Actinobacillus succinogenes* by carbon source in immobilized continuous fermentation with oleyl alcohol reflux
*Yu-Sheng Chiang and Si-Yu Li**, National Chung Hsing University, Taichung, Taiwan*

17:50 F-4: An approach of ectoine production by immobilized cell system
Po-Wei Chen and John Chi-Wei Lan, Yuan Ze University, Taoyuan, Taiwan*

Session F2: Bioprocess Technology and Engineering

June 24 (Saturday), Room MA106, 1st floor Management Building I

14:00 Invited Speech

Prof. Chartchai Khanongnuch

Division of Biotechnology, Chiang Mai University

14:25 F-5: Purification of Astaxanthin by Using a Seven-Zone Simulated Moving Bed
Ming-Tsai Liang, Xiao-Qing Bao, Ru-Chien Liang and Ly Sung, I Shou University, Kaohsiung, Taiwan*

14:40 F-6: Bioprocess engineering strategies for the enhanced lutein production with *Chlorella sorokiniana* MB-1-M12 under mixotrophic growth

*Jih-Heng Chen, Chun-Yen Chen and Jo-Shu Chang**, National Cheng Kung University, Tainan, Taiwan

14:55 F-7: Large-scale fermentation of PHB production by thermophilic *Caldimonas manganoxidans*

*Po-Jen Chuang and Si-Yu Li**, National Chung Hsin University, Taichung, Taiwan

15:10 F-8: Enhanced ectoine production with an indigenous isolate *Marinococcus* sp. strain

*Wei-Chuan Chen, Fang-Wei Yuan, John Chi-Wei Lan and Yu-Hong Wei**, Yuan Ze University, Taoyuan, Taiwan