

Session B: Metabolic Engineering and Synthetic Biology

June 24 (Saturday), Room MA102, 1st floor Management Building I

Chair: Prof. Yun-Peng Chao and Prof. Shen-Long Tsai

- 10:50** B-1: Using CRISPRi-mediated genes regulation in *Chlamydomonas reinhardtii* for biorefinery
*Pei-Hsun Kao and I-Son Ng**, National Cheng Kung University, Tainan, Taiwan
- 11:08** B-2: Self-regulated 1-butanol production in *Escherichia coli* based on the endogenous fermentative control
*Rex C. Wen and Claire R. Shen**, National Tsing Hua University, Hsinchu, Taiwan
- 11:26** B-4: CRISPR-Cas9 for the genome engineering of cyanobacteria and succinate Production
*Hung Li, Claire R. Shen, Chun-Hung Huang, Li-Yu Sung, Meng-Ying Wu, Mu-En Chung, I-Hsin Yeh and Yu-Chen Hu**, National Tsing Hua University, Hsinchu, Taiwan
- 11:44** B-5: Expression of a metabolic loop enables simultaneous growth and 3-hydroxybutyrate biosynthesis in cyanobacteria
*Jason T. Ku and Ethan I. Lan**, National Chiao Tung University, Hsinchu, Taiwan
- 12:02** B-6: Selection of an endogenous 2,3-butanediol pathway in *Escherichia coli* by fermentative redox balance
*Keming Liang and Claire R. Shen **, National Tsing Hua University, Hsinchu, Taiwan