

[S6-1] 부문위원회 및 학생세션 I: Biorefinery and Bioprocess Engineering (Part I)

● October 10, 2019, 13:00–14:28 (Room 322)

Chair: Jong Wook Hong (Hanyang University)

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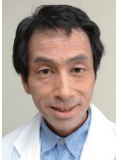
[SBJ Invited]

13:00-13:20

Regulation of Complex Microbial Communities to Develop a Sustainable and Healthy Society

Kengo SASAKI

Graduate School of Science, Technology and Innovation, Kobe University, Kobe, Japan



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[SBJ Invited]

13:20-13:40

A Pneumatic Pressure-Driven Microphysiological Systems for Multi-Throughput Microfluidic Circulation Culture

Shinji SUGIURA

National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Japan



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13:40-13:52

Comparison of Ethanol Yield Coefficient Using *Saccharomyces cerevisiae*, *Kluyveromyces marxianus*, and *Candida lusitanae* to High Concentration of Galactose with *Gracilaria verrucosa* as Substrate

Yurim PARK, In Yung SUNWOO, Gwi-Taek JEONG, Sung-Koo KIM

Department of Biotechnology, Pukyong National University, Busan, Korea

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13:52-14:04

Bio-succinic Acid Production from Methane Using a Type I Methanotroph, *Methylomonas* sp. DH-1

Azka Nur AFIFAH^{1,2}, Min Sik KIM²

¹University of Science and Technology, Daejeon, Korea, ²Gwangju Bio/Energy R&D Center, Korea Institute of Energy Research, Gwangju, Korea

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14:04-14:16

Controlling the D-Xylonic Acid Accumulation in Engineered *Escherichia coli* Using a CadC-derived pH Regulator

Angelo BAÑARES¹, Kris Niño VALDEHUESA¹, Teklebrahan WELDEMHRET¹, Grace NISOLA¹, Won-Keun LEE², Wook-Jin CHUNG¹

¹Department of Energy Science and Technology (DEST), Energy and Environment Fusion Technology Center (E2FTC), Myongji University, Yongin, Korea, ²Division of Bioscience and Bioinformatics, Myongji University, Yongin, Korea

S616 **14:16-14:28**

Production of Biofuel Derived from Fatty Acids by Metabolic Engineering of *Escherichia coli*

Kwan Woo MOON¹, Hyun Shik YUN¹, Jong Youn BAIK¹, Se Kyung KIM²

¹Department of Biological Engineering, Inha University, Incheon, Korea, ²Institute of Industrial Biotechnology, Inha University, Incheon, Korea