

[S5-2] 생물공학 미래연구인재 연구동향 (Fresh Ph.D.)

October 10, 2019, 13:00–14:45 (Room 323)
Chair : Joo-Hyun Seo (Kookmin University)

S521

13:00-13:15



Novel *In Silico* Repetitive Sequence Analyses of Spider Silk Proteins: Coevolution with Species and Fiber Mechanical Properties

Dooyup JUNG, Yun Jung YANG, Hyung Joon CHA

Department of Chemical Engineering, Pohang University of Science and Technology, Pohang, Korea

S522

13:15-13:30



Advances in Adeno-associated Virus based Gene Delivery Systems for Biomedical Applications

Seung-Hyun KIM, Mira CHO, Jae-Hyung JANG

Department of Chemical and Biomolecular Engineering, Yonsei University, Seoul, Korea

S523

13:30-13:45



Development of Marine Mussel-inspired Nanofiber Conduit and Adhesive Hydrogel Sealant for Accelerated Nerve Regeneration

Hokyun CHEONG¹, Eun Young JEON¹, Young-Joon JUN², Jong In LEE³, Hyun Jun JO², Hae Yeon PARK³, Eunjin KIM², Kye Il JOO¹, Yoon Jung YANG¹, Jong Won RHIE², Hyung Joon CHA¹

¹Department of Chemical Engineering, Pohang University of Science and Technology, Pohang, Korea, ²Department of Plastic and Reconstructive Surgery, Seoul St. Mary's Hospital, The Catholic University of Korea, Seoul, Korea, ³Department of Rehabilitation Medicine, College of Medicine, Seoul St. Mary's Hospital, The Catholic University of Korea, Seoul, Korea

S524

13:45-14:00



Biochemical and Structural Analyses of L-fucose Isomerase for the Synthesis of L-fucose from L-fuculose

In Jung KIM, Do Hyoung KIM, Ki Hyun NAM, Kyoung Heon KIM

Department of Biotechnology, Graduate School, Korea University, Seoul, Korea

[S5-2] 생물공학 미래연구인재 연구동향 (Fresh Ph.D.)

S525

14:00-14:15



Engineering D-2-Hydroxy Acid Dehydrogenases for an Antibiotic and Drug Intermediate, D-3-Phenyllactic Acid

Hoe-Suk LEE¹, Jisu PARK², Wanseo LEE², Young Joo YEON²

¹Program of Bioengineering, Seoul National University, Seoul, Korea, ²Department of Biochemical Engineering, Gangneung-Wonju National University, Gangneung, Korea

S526

14:15-14:30



Host-Viral Interaction in Microfluidic Device at Single-cell Level

Reya GANGULY¹, Solib KANG¹, Byungjin LEE¹, Si Hyung JIN¹, Yohei YAMUCHI², Jaeseong KIM¹, Chang-Soo LEE¹

¹Chungnam National University, Korea, ²University of Bristol, United Kingdom

S527

14:30-14:45



Novel Crocin-glucosides Synthesized under High Hydrostatic Pressure Condition

Il Kyoon MOK¹, Thi Thanh Hanh NGUYEN¹, Dong Hoi KIM⁴, Jae Wook LEE^{3,4}, Doman KIM^{1,2}

¹Institute of Food industrialization, Institutes of Green Bio Science & Technology, Seoul National University, Pyeongchang, Korea. ²Graduate School of International Agricultural Technology, Seoul National University, Pyeongchang, Korea, ³Convergence Research Center for Dementia, KIST, Seoul, Korea, ⁴Natural Constituent Research Center, KIST Gangneung Institute of Natural Products, Gangneung, Korea