

Session D: Biotechnology & Chemical and Materials Engineering

4-1 Green Chemical Process and Circular Economy

4-2 Chemical Materials

4-3 Bioprocess and Bioengineering

4-4 Biological Functional Assessment

4-5 Biotechnology of Health Care

October 4 (Thursday) / Venue : E1301				
Time	ID	Speaker	Title and Affiliation	Page
14:30 – 15:00	D1-I-01	Oliver Brüggemann	Functional polymers for medical and industrial applications Johannes Kepler University Linz	D1-01
15:00 – 15:30	D1-I-02	Bing-Hung Chen	Study on Heterogeneously Catalyzed Oligomerization of Glycerol over Alumina Supported Ca/Sr Mixed Oxides National Cheng Kung University	D1-02
15:30 – 16:00	D2-I-01	Chih-Hsin Hung	Using bacteriophage and lysin to control Extended-Spectrum Drug-resistant Acinetobacter baumannii Infection I-Shou University	D2-01
16:00 – 16:30	<u>Coffee Break</u>			
16:30 – 17:00	D2-O-01	Ying-Chen Yi and I-Son Ng	Establishment of Constitutive and Inducible Recombinant Expression System by Shewanella oneidensis MR-1 NCKU	D2-03
	D2-O-02	Shih-I Tan and I-Son Ng	Development of Genetic Circuit Platform (GCP) as a High Sensitivity Biosensor in E. coli NCKU	D2-04
	D2-O-03	Han Yun Wu	In vitro co-biosynthesis of 3-hydroxypropionic acid and 1,3-propanediol from glycerol through cell surface biocatalysis National Yunlin University of Science and Technology	D2-05

17:00 – 17:30	D2-O-04	Ren Fang Yang	Encapsulation of oil within polysaccharides extracted from the seeds of Ficus pumila var. awkeotsang using a milli-fluidic device National Yunlin University of Science and Technology	D2-06
	D2-O-05	Wai Leng Carmen Loh, John Chi-Wei Lan and Hui Suan Ng.	Production of microbial carotenoids by Gordonia terrae TWRH01: cultivation and medium optimization UCSI University	D2-07
	D2-O-06	Jing-Hua Huang and John Chi-Wei Lan.	Fabrication of Polyhydroxybutyrate-cellulose Based Matrix for Protein Recovery YuanZe University	D2-08
17:30 – 17:50	D2-O-07	Man-Chun Chuang, Szu- Yu Chen and Mei-Chin Chen	Potential of using Chitosan/poly-gamma-glutamic acid nanoparticles as nanocarriers to improve antigen immunogenicity NCKU	D2-09
	D2-O-08	Yi Hu, Rei Ming Guo and Mei Jywan Syu	Towards the Fabrication and Development of A Modified Sensor for Detection of Creatinine Concentration NCKU	D2-10

October 5 (Friday) / Venue : E1301

Time	ID	Speaker	Title and Affiliation	Page
09:00 – 09:30	D1-I-03	Yern Chee Ching	Nanocellulose reinforced Biopolymer Based hydrogel for Drug Loading and Delivery University of Malaya	D1-03
09:30 – 10:00	D2-I-02	Hui-Suan Ng	Extractive Disruption Of Gordonia terrae For Recovery Of Carotenoids With Alcohol/Salt Aqueous Biphasic System UCSI University	D2-02
10:00 – 10:20	<u>Coffee Break</u>			
10:20 – 11:20	D1-O-01	Thuy-Vi Vo, Pei-Tzu Yang and Bing-	Preparation and characterization of Alkyl polyglucosides/Tea Tree Oil/Water microemulsion	D1-04

		Hung Chen		
D1-O-02		Ru-Xue Guo, Yan-Lin Wang and Mei- Jywan Syu	Preparation of Copper-Organic Framework Packed Column for Adsorption and Electrocatalysis of Carbon Dioxide	D1-05
D1-O-03		Chen Yi- Ching, Chen Meng-Chen and Chang Chien-Hsiang	A study on Interfacial behavior of cationic vesicle-forming materials	D1-06
D1-O-04		Yen-Ju Chen and Bing- Hung Chen	Study on Optimization of Surfactant Enhanced Extraction of Tea Tree Oil using Response Surface Methodology	D1-07
D1-O-05		Aleksandr Spivakov, Yu- Chuan Chang, Chin-Lin Pan, Yaw-Teng Tseng and Chun-Rong Lin	Influence of the reaction temperature on the phase-purity of carbon-coated wustite nanoparticles	D1-08