

2022 年 12 月 15 日

財團法人張榮發基金會 1006

Material Science

Time	Speaker	Topic	Affiliation
13:50-14:05 (250238)	Min-Ren Chiang, Wei-Ting Shen, Pin-Xuan Huang, Shang-Hsiu Hu	Combining Metal Organic Framework (MOF) Nanocatalysts and Immunotherapy to Enhance Cytotoxic T Lymphocytes Infiltration Ability	Department of Biomedical Engineering and Environmental Sciences, National Tsing Hua University
14:05-14:20 (250274)	Cheng-Ping Yu, Yan-Jye Shyong	Stearic acid modified hydroxyapatite as a sustained release carrier for tariquidar to improve brain penetration of temozolomide	School of Pharmacy and Institute of Clinical Pharmacy and Pharmaceutical Sciences, National Cheng Kung University
14:20-14:35 (250196)	Yong-Heng Lin, Yu-Chuan Chiu, Yung-Te Hou	Development of a decellularized liver matrix-based nanomedicine for liver regeneration	Department of Biomechanics Engineering, National Taiwan University
14:35-14:50 (250208)	Yi-Lian Li ¹ , Cheng-Li Lin ² , Jui-Chen Tsai ¹ , Yan-Jye Shyong ¹	Sebacoyl Dinalbuphine Ester-Loaded Nanostructured Lipid Carriers in Gel for Postoperative Pain on Spine Surgery	¹ School of Pharmacy and Institute of Clinical Pharmacy and Pharmaceutical Sciences, National Cheng Kung University. ² Department of Orthopedics, National Cheng Kung University Hospital
14:50-15:05 (250186)	Wan Lou Lei ¹ , Tzu-Ya Cheng ¹ , Chih-Wei Peng ² , Huai-En Lu ³ , Wei-Chen Huang ⁴	Degradable Biohybrid Hydrogel Neural Interfaces	¹ Department of Biomedical Engineering, National Yang Ming Chiao Tung University. ² Department of Biomedical Engineering, Taipei Medical University. ³ Food Industry Research and Development Institute. ⁴ Department of Electrical and Computer Engineering, Yang Ming Chiao Tung University
15:05-15:20 (250259)	Kang-Li Wang, Cheng-Han Li, Shang-Hsiu Hu	M1 Macrophage Membrane-coated Porous Magnetic Nanocubes for Reversing Immune-deficient TME of Lung-metastatic Colorectal Cancer	Department of Biomedical Engineering and Environmental Sciences, National Tsing Hua University
15:20-16:20	Coffee break		
16:20:16:35 (250305)	Yu-Chung Liu, Tzu-Wei Wang	A Structure-Anatomy-Function Biomimetic Ligament Scaffold using Interfacial Polyelectrolyte Complexation Spinning	Department of materials science and engineering, National Tsing Hua University

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		with Mineralization Gradient	
16:35-16:50 (250352)	Szu-Ying Li ¹ , Yen-Ting Wu ¹ , Wie-Yun Li ¹ , Yu- Chun Lo ² , Ta- Chung Liu ¹ , and You-Yin Chen ^{1,2,3}	Fabless manufacturing neural probe for in vivo neural recording	¹ Department of Biomedical Engineering, National Yang Ming Chiao Tung University. ² PhD Program in Medical Neuroscience, College of Medical Science and Technology. ³ Medical Device Innovation and Translation Center, National Yang Ming Chiao Tung University
16:50-17:05 (250364)	Sanskruti Swain ¹ , Ting-Yi Lin ¹ , Hua-En Chueh ¹ , I-Hsuan Chou ² , Hsing-Ying Lin ² , Chen-Han Huang ¹	Photo-regulated emissive oxidase-like nanozyme based sensor for evaluation of the total antioxidant capacity from human saliva	¹ Department of Biomedical Sciences and Engineering, National Central University. ² Institute of Biomedical Engineering, National Tsing Hua University
17:05-17:20 (250114)	Po-Sheng Hu ¹ , Hsiu-Jen Chou ¹ , Chi-An Chen ¹ , Po-Yi Wu ¹ , Kai- Hsien Hsiao ¹ , Yu- Min Kuo ²	Devising hyperthermia dose of NIR-irradiated Cs _{0.33} WO ₃ hyperthermia dose of NIR-irradiated Cs _{0.33} WO ₃ nanoparticles for HepG2 hepatic cancer cells	¹ College of Photonics, National Yang Ming Chiao Tung University. ² Department of Cell Biology and Anatomy, College of Medicine, National Cheng Kung University
17:20-17:35 (250133)	Shang-Chi Chien ¹ , Jung-Chih Chen ²	P-tau Dephosphorylation Measurement on the Basis of Biomimetic Electrochemical-polymerized Thin Film Modified EQCM	¹ Department of Electronics and Electrical Engineering, National Yang Ming Chiao Tung University. ² Institute of Biomedical Engineering, National Yang Ming Chiao Tung University
17:35-17:50 (250169)	Chun-Ting Lin ¹ , Lester U. Vinzons ² , Shu- Ping Lin ¹	Modulation of Schwann cell behaviors by micro-and nanopatterned polyurethane substrates	¹ Graduate Institute of Biomedical Engineering, National Chung Hsing University. ² Ph.D. Program in Tissue Engineering and Regenerative Medicine, National Chung Hsing University

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Time	Speaker	Topic	Affiliation
08:30-09:00	Tse-Ying Liu	Study on nanomedicines for tumor cell-targeting radiotherapy	Department of Biomedical Engineering, National Yang Ming Chiao Tung University
09:00-09:30	Yung Chang	Bio-inspired Zwitterionic Material System: Molecular Design and Medical Applications	R&D Center for Membrane Technology, Department of Chemical Engineering, Chung Yuan Christian University
09:30-10:00	Jui-Yang Lai	Functional Biomaterial Design for Glaucoma Pharmacotherapy	Department of Biomedical Engineering, Chang Gung University
10:00-10:20	Coffee break		
10:20-10:35 (250300)	Yi-Hsuan Wen ¹ , Jui-Chen Tsai ¹ , Chian-Wei Chen ² , Yan-Jye Shyong ¹	Remdesivir and Dexamethasone loaded Nanostructured Lipid Carrier for pulmonary delivery	¹ Institute of Clinical Pharmacy and Pharmaceutical Sciences, School of Pharmacy, College of Medicine, National Cheng Kung University. ² Department of Internal Medicine, National Cheng Kung University Hospital, College of Medicine, National Cheng Kung University
10:35-10:50 (250328)	Min-Hua Chen ^{1,2} , Chun-Hung Lee ^{1,2} , Hsiang-Kuang Liang ³ , Su-Chin Huang ² , Jui-Ping Li ² , Cheng-An J. Lin ¹ , Jen-Kun Chen ²	Integrating the microneedles with radiosensitizers to enhance the therapeutic effect of radiotherapy for skin cancers	¹ Department of Biomedical Engineering, Chung Yuan Christian University. ² Institute of Biomedical Engineering and Nanomedicine, National Health Research Institutes. ³ Department of Biomedical Engineering, National Taiwan University National Taiwan University
10:50-11:05 (250338)	Najim Akhtar, Chuan Lin Chen, Surojit Chattopadhyay	Radiolabelled Upconversion nanoformulation for multimodal image guided cancer therapy	Institute of Biophotonics, National Yang Ming Chiao Tung University
11:05-11:20 (250339)	Yu-Fang Lin, Wen-Tyng Li	Preparation of polyethyleneimine coated magnetic nanoparticles conjugated with folic acid for hyperthermia application	Department of Biomedical Engineering, Chung Yuan Christian University
11:20-11:35 (250472)	Wei-Chih Lien ¹ , Pei-Yuan Lee ² , Feng-Huei Lin ³ , Hui-Min David	Long-term therapeutic potential of nanoceria in urological chronic pelvic pain syndrome:	¹ Department of Physical Medicine and Rehabilitation, National Cheng Kung University Hospital, College of Medicine,

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	Wang ⁴	immunomodulation via SerpinB2 downregulation	National Cheng Kung University. ² Department of Orthopedics, Changhua Show Chwan Memorial Hospital. ³ Institute of Biomedical Engineering, College of Medicine and College of Engineering, National Taiwan University. ⁴ Graduate of Biomedical Engineering, National Chung Hsing University
11:35-11:50 (250501)	Chia-Jung Yang, Jui-Yang Lai	Aminated chitosan-functionalized nano eye-drops for acute glaucoma treatment	Department of Biomedical Engineering, Chang Gung University