**Schedule of Presentations: Oral Session**

**Biomaterials/Nanomedicine**

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| **Nov. 1 (Friday) 15:10 – 16 :30 2F Room 36206**  **Chair：Prof. Chih-Kuang Chen 陳致光教授**  (Department of Materials and Optoelectronic Science, National Sun Yat-sen University)  **Invited Speaker：Prof. Hsing-Ying Lin 林幸瑩教授**  (Institute of Biomedical Engineering, National Tsing Hua University)  **Development of Affordable Sensing Technologies in Liquid Biopsy Diagnostics** | | |
| **Paper NO.** | **Presenter** | **Title** |
| G6-001 | **Wei-Ling Chen**  National Cheng Kung University Hospital | Spindle-Shaped Nanozymes: A Novel Approach To Enhance Pulmonary Hypertension Therapy |
| G6-014 | **Si-Ting Xu**  Chang Gung University | Aminated Hyaluronan-Doped Nanoceria As Drug Delivery System For Corneal Alkali Burn Therapy |
| G6-035 | **Hsi-Chen Tung**  National Cheng Kung University | Dugout-Like Microneedles For On-Site Loading Of Irisin And Fibroblast Cells To Accelerate The Healing Of Chronic Wounds |
| G6-051 | **Hsin-Mei Lee**  National Tsing Hua University | Enhanced And Prolonged STING Activation Via Hydrogel-Based In-Situ Vaccination For Cancer Immunotherapy |
| G6-082 | **陳家梓**  Taipei Medical University | Development Of Silica Nanocarriers Capable Of Overcoming Biological Barriers For Efficient Nucleic Acid Delivery |
| G6-086 | **Wan-Chi Pan**  National Tsing Hua University | Wireless Magnetoelectric-Driven Gene Therapy Targeting miR6236 Downregulation-Mediated by Conductive Porous Hydrogel for Nerve Regeneration after Traumatic Brain Injury |

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| **Nov. 2 (Saturday) 11:10 – 12 :30 1F Room 36106**  **Chair：Prof. Cheng-An Lin林政鞍教授**  (Department of Biomedical Engineering, Chung Yuan Christian University)  **Invited Speaker：Prof. Ren-Jei Chung鍾仁傑教授**  (Department of Chemical Engineering and Biotechnology, National Taipei University of  Technology**)**  **Biomedical applications of organic-inorganic hybrid materials** | | |
| **Paper NO.** | **Presenter** | **Title** |
| G6-008 | **Chia-Jung Yang**  Chang Gung University | Ph-Sensitive Polymer-Functionalized Nanocarriers For The Treatment Of Chemical Eye Injuries |
| G6-040 | **Pei-shin Hung**  National Cheng Kung University | ICG/Mno2-Coated Virus-Like Particles With Synergistic Therapeutic Effects And Remodeled Tumor Microenvironment For Enhanced Glioblastoma Treatment |
| G6-041 | **Huynh Thuy Vy Do**  National Cheng Kung University | Phenotypic Response Surface-Based Optimization Of Metastatic Breast Cancer Drug Screening |
| G6-052 | **Yu-Chi Pan**  Kaohsiung Medical University | Irisin-Loaded Dissolving Microneedles Promote Rapid Wound Healing |
| G6-060 | **Long YI Chan**  China Medical University | Messenger RNA Medicine Delivered By Block Copolymer Self-Assembled As Polyplex Nanomicelle For Administration Route Evaluation |
| G6-078 | **Hsuan Wen Lai**  Taipei Medical University | Platalet Derived-Extracellular Vesicles For Dry Eye Treatment |

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| **Nov. 2 (Saturday) 15:40 – 17 :30 1F Room 36106**  **Chair：Prof.** **Yi-Ju Ho 何奕儒教授**  (Department of Biological Science and Technology, National Yang Ming Chiao Tung University)  **Invited Speaker**：**Prof. Ying-Chieh Chen 陳盈潔教授**  (Department of Materials Science and Engineering, National Tsing Hua University)  **Engineering Vascularized Nerve Tissue Construct for Volumetric Muscle Loss**  **Repair** | | |
| **Paper NO.** | **Presenter** | **Title** |
| G6-002 | **Yan-Jye Shyong**  National Cheng Kung University | BMSC Loaded Photo-Crosslinked Hydrogel Incorporating FG4592 For Enhanced Cell Proliferation And Nucleus Pulposus Differentiation |
| G6-011 | **Tuyet-Nhi Do**  National Cheng Kung University | Assessing The Efficacy Of Ketorolac-USPIO And Curcumin-PLGA Conjugation In Treating Chronic Inflammatory Pain In ICR Mice: A Proof-Of-Concept Study On An Innovative Pain Relief Method |
| G6-044 | **Hong-Wei Zhang**  National Cheng Kung University | Fabricating And Developing Complex Microfluidic Devices Through Stereolithography |
| G6-057 | **E-Ping Tsai**  National Central University | Single-Molecule Mirna Diagnostics Enhanced By Image Processing And Digital PCR On Track-Etched Membrane |
| G6-072 | **Min-Hua Yu**  China Medical University | Harnessing The Multifunctional Of Modified-Adipose-Derived Stem Cell-Derived Extracellular Vesicles For Accelerating Healing Of Diabetic Chronic Wounds |
| G6-089 | **Suprava Das**  Chang Gung University | CPP Modified Tsls Facilitating Co-Release Of Manganese-Based Photosensitizer And Quercetin For Enhanced PDT/PTT/CT |

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| **Nov. 3 (Sunday)** **11:20~12:40 1F Room 36106**  **Chair：Prof. Yan-Jye Shyong 熊彥傑教授**  (School of Pharmacy, National Cheng Kung University)  **Invited Speaker**：**Prof. Tse-Ying Liu 劉澤英教授**  (Department of Biomedical Engineering, National Yang Ming Chiao Tung University)  **Lanthanide-containing materials for inhibiting cancer metastasis** | | |
| **Paper NO.** | **Presenter** | **Title** |
| G6-013 | **Bill Cheng**  National Chung Hsing University | Monocyte-Mediate Drug Carriers for Anti-Cancer Drug Delivery |
| G6-062 | **Yen-Hong Lin**  China Medical University | Biofabrication of dECM-integrated auxetic hydrogels with enhanced mechanical properties for cartilage regeneration through cyclic tensile stimulation and YAP-mediated chondrogenesis |
| G6-066 | **郭庭佑**  China Medical University | Lithium-Doped Calcium Silicate Scaffolds Regulates The Immune Microenvironment And Promotes M2 Macrophage Polarization For Enhancing Bone Regeneration |
| G6-067 | **Yu- Hsuan Yang**  China Medical University Hospital | Advanced Bone Regeneration: Harnessing Astragalus-Calcium Silicate/Poly-Ε-Caprolactone Scaffolds For Targeted Modulation Of Inflammatory And Osteogenic Gene Expression |
| G6-075 | **Shao-Chieh Hsu**  National Taiwan University | Design Of Composite Membranes For Dual Piezoelectric And Thermoelectric Catalysis: Enhanced Reactive Oxygen Species Generation And Antibacterial Efficacy |
| G6-090 | **Thejas Pandaraparambil Premji**  Chang Gung University | A Multifunctional Nanoreactor Based On Graphene Oxide Quantum Dot Involving Starvation/ Chemodynamic/ Photothermal Therapies |