

SEMBA 2025

2025 Symposium on Engineering,
Medicine, and Biology Applications

第十三屆生醫工程應用研討會

頒獎典禮

主辦單位



承辦單位



指導單位



Excellent Poster Award

論文編號	姓名	論文題目
0068	王宣文, 孫暉翔, 沈仕傑, 黃少甫, 林峻立	Biomechanical evaluation of new hybrid manufactured titanium cervical spine expandable corpectomy cage and FDA-compliant static/dynamic testing
0053	Wen-Yu Kang, Wen-Hung Wang, Chun-Ming Wang, Ya-Yu Chiang, Ling-Shang Yu	RPA-CRISPR/Cas12a-Based SlipChip Platform with AI-Assisted Fluorescence Image Analysis for Multiplexed Detection of Antibiotic Resistance Genes
0054	Hsin-Ying Ho, Ling-Shan Yu	Development of a CRISPR/Cas13a-mediated Aptasensor with Aptamer-Locker Design for Precise Detection of Non-Nucleic Acid Biomarker
0077	Jing-Wei Wang, Advaita Ghosh, Kuan-Lin Chen, Yen-Fu Lin, Shu-Ping lin	Van der Waals Heterostructures for Neuromorphic Devices: Mimicking Synaptic Plasticity and Sensory Adaptation

Best Poster Award

論文編號	姓名	論文題目
0059	Rajat Subhra Karmaker, Hsin-Fu Lin, Jih-Fong Huang, Jui-I Chao, Ying-Chih Liao, Yen-Wen Lul	Patterned pentagon-knot origami tactile sensor based on electrical contact resistance (ECR) for monitoring physical exercise
0089	Po-Yuan Wang, Chia-Chun Hsu, Po-Wen Lin, Che-Wei Lin	A Transformer-Enhanced Quartz Crystal Microbalance Electronic Nose for Non-Invasive Screening of Colorectal Cancer
0017	Guan-Yu Chou, Yu-Hsiang Lee	Development of Perfluorocarbon Exosomes Encapsulated With Camptothecin & Indocyanine Green for Targeting Photochemotherapy of Colorectal Cancer
0033	Tzung-Je Lee, Ji-Hau Chiou	A 1.91 fJ/conversion-step 10-bit Asynchronous SAR ADC for Applications of Implantable Biomedical Pressure Measuring

Excellent Oral Paper Award

論文編號	姓名	論文題目
0079	Chih-Yang Chen, Shin-Yan Chiou and Hao-Li Liu	Synchronization of 3D CT/MRI and Real-Time Ultrasonography with Augmented Reality using HoloLens 2
0058	蔡東霖, 洪健中, 鄭幸文, 楊晶安	A Transformer Approach Using Unbiased Hematology Analyzer Impedance Data for Early Identification of Bacteremia in Emergency Department
0013	Lei Li, Dar-Jen Hsieh, Kuan-Chang Chang	Integration of Biomaterials and Electronics: New Era of Energy-Efficient Bioelectronics
0025	Yi-Wen Lian and Hung-Wei Yang	High-performance SERS nanosensor based on self-signal amplification of gold nanostars for label-free detection of microRNA in ovarian cancer
0082	Ting-Yu Cheng, Li-Chan Chang, Sz-Syuan Wu, Yu-Cheng Chin, Ya-Jyun Chen, Zi-Chun Chia, Wen-Pin Su and Chih-Chia Huang	Synergistic Photodynamic and Metabolic ROS Modulation of Glycosylated Au Nanoparticles: A Breakthrough Strategy in Macrophage Reprogramming for Cancer Immunotherapy
0067	Kongpop Treerattanavanich, Kanyanut Surakiat, Ponpatcharee Nipattanon, and Lin Che-Wei	Event-Based Sleep Apnea Detection using Single-Lead Electrocardiogram Spectrograms with DETR and EfficientDet models

Best Oral Paper Award

論文編號	姓名	論文題目
0007	Cliff Christsandy, Lyu-Siang Lin, Yi-Ru Chen, Chia-Min Cheng, Mu-Yao Wang, Hao-Ming Hsiao	Roles of Retriever Design Parameters for Enhancement of Blood Clot Retrieval
0069	Ting So Chang, MD, Chen-you, Liu, Ren-Guey Lee, Ph D	Improving OSA Diagnosis: An AI-Powered Approach for Analyzing DISE Videos to Assess Obstruction Severity and Location
0018	Chia-Tse Hung, Wei Chang, Chiuan-Chian Chiou and Yen-Heng Lin	Rapid Quantitative PCR Enabled by Oscillating Flow Control in Microchannel
0024	An-Yu Huang, Mu-Hua Wang, Liang-Wei Huang, Bo-Hung Chen, Hsing-Hao Wang, Chao-Hung Kuo, Shao-Wei Lu, Yu-Chun Lo, and You-Yin Chen	Spatiotemporal Cortical-Synergy Connectivity in the Gait Cycle
0039	Hsiao-Yi Chen, Tien-Hsin Cheng, Yu-Shen Cheng and Hui-Min David Wang	A Biomimetic Micropillar Wound Dressing with Flavone and Polyphenol Control Release in Vitro and in Vivo
0055	Chia-Ling Ho, Yi-Li Tseng	Optimized Modularity Framework for EEG-Based Neural Connectivity Analysis During Cooperative Gameplay

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感謝您的參與，我們明年見！