TENTATIVE PROGRAM

Timeline	Program
	DAY 1: 24 July 2025
	VENUE: Furama Resort Danang
7:30 - 8:30	Reception
8:30 - 9:00	Opening remark and welcome speech
	HUST: Prof. Huynh Quyet Thang, President of HUST, Vietnam
	UD: Assoc. Prof. Nguyen Ngoc Vu, President of UD, Vietnam
	AVSE: Prof. Nguyen Duc Khuong, President of AVSE Global
	Group Photo
9:00 - 11:00	**PLENARY SESSION** **Chair: Prof. Thanh Nguyen, University of Connecticut, USA**
9:00 - 9:30	**Prof. Samir Mitragotri, Harvard University, USA** Title: ***A Hitchhiker's and Backpacker's Approach to Drug Delivery***
9:30 - 10:00	**Prof. Kam W. Leong, Columbia University, USA** Title: ***Multiscale Therapeutic Biomaterials for Inflammatory and Regenerative Applications***
10:00 - 10:30	Discussion
10:30 - 11:00	**COFFEE BREAK**
11:00 - 12:00	**KEYNOTE SESSION** **Chair: Prof. Samir Mitragotri, Harvard University, USA**

11:00 - 11:30	**Prof. Yadong Wang, Cornell University, USA** Title: ***Biomaterials design: biomimicry or not?***
11:30 - 12:00	**Prof. Thanh Nguyen, University of Connecticut, USA** Title: ***Smart biodegradable polymers at nano and micro-scales for medical application***
12:00 - 14:00	**LUNCH**
14:00 - 15:00	**KEYNOTE SESSION** **Chair: Prof. Kam W. Leong, Columbia University, USA**
14:00 -14:30	**Prof. Hala Zreiqat, University of Sydney, Australia** Title: ***Nanostructured bioceramics for bone healing and ageing-related regenerative***
14:30 -15:00	**Prof. Vladislav Yakovlev, Texas A&M University, USA** Title: ***When light meets medicine: Unleashing synergy against superbugs***
15:00 – 16:00	**SCIENTIFIC SESSION** **Chair: Prof. Yadong Wang, Cornell University, USA**
15:00 -15:30	**Invited speaker: Dr. Minh Le, National University of Singapore, Singapore** Title: ***Novel immunotherapy based on natural extracellular vesicles***
15:30 - 16:00	**Invited speaker: Assoc. Prof. Thuy Ngo, Oregon Health and Science University, USA** Title: ***Developing blood-based methods for cancer management through early detection and tumor subtyping***
16:00 - 16:30	**COFFEE BREAK**
16:30 – 17:30	**SCIENTIFIC SESSION** **Chair: Prof. Hala Zreiqat, University of Sydney, Australia**
16:30 – 17:00	**Invited speaker: Assoc. Prof. Vi Khanh Truong, Khalifa University, UAE** Title: ***Gallium liquid metal: The terminator of infections and a vanguard in antimicrobial tactics***
17:00 - 17:30	**Premnath Mandalapu – Cytiva Commercial General Manager, ASEAN** Title: ***Advancing future therapeutics***
18:30-21:00	**GALA DINER**

DAY 2: 25 July 2025				
	VENUE: The University of Da Nang, 41 Le Duan		**VENUE: University of Science and Technology, The University of Da Nang, 54 Nguyen Luong Bang**	
8:15 - 8:30	**Welcome and Introduction of Leader, VN-UK Institute for Research and Executive Education, School of Medicine and Pharmacy, The University of Da Nang**		**Welcome and Introduction of Leader, University of Science and Technology, The University of Da Nang**	
8:30 - 12:00	**SCIENTIFIC SESSION**			
	Session 02: Biomaterials and Drug Delivery **Chair: Prof. Vladislav Yakovlev,** Texas A&M University, USA **Co-chair: Dr. Dang Duc Long,** The University of Danang - VN-UK Institute for Research and Executive Education, Vietnam	**Session 03: Biological and Medical Science** **Chair: Dr. Minh Le,** National University of Singapore **Co-Chair: Dr. Tran Van Khue,** The University of Danang - VN-UK Institute for Research and Executive Education, Vietnam	**Session 01: Bio-Sensing Technology and Medical Devices** **Chair: Assoc. Prof. Thuy Ngo,** Oregon Health and Science University, USA **Co-chair: Dr. Liu Yang,** Peking University School of Stomatology, China	**Session 04: AI and Data Science for Health** **Chair: Assoc. Prof. Vu Duy Hai,** Hanoi University of Science and Technology, Vietnam **Co-chair: Dr. Quy Vo-Reinhard,** Genorare B.V., Switzerland
8:30 -8:50	**Invited speaker: Assoc. Prof. Wai Hong Lo, University of Connecticut Health Center, USA** Title: Innovative Approaches to Bone Regeneration: Harnessing Small Molecules and Cutting-Edge Biomaterials	**Invited speaker: Dr. Le Thi Hue, Kobe University, Japan** Title: Sorbitol-responsive in-situ adhesive hydrogel for cardiovascular regeneration	**Invited speaker: Dr. Liu Yang, Peking University, China** Title: Biodegradable piezoelectric joint implant: big to small	**Invited speaker: Dr. Quy Vo-Reinhard, Genorare B.V., Switzerland** Title: Privacy-preserving rare disease diagnosis via integrated AI and fully homomorphic encryption
8:50 - 9:05	**FS2-0350:** Influence of acid etching on the surface characteristics and cell	**FS3-0011:** A pilot study on the efficacy of Zingiber officinale and Houttuynia cordata in balancing Yang	**FS1-0047:** EEG-based Epilepsy Detection using Liquid State Machine	**FS4-1502:** Development of an EfficientNetV2L and YOLO Model for Lung Anomaly Detection

	attachment of titanium implants	Deficiency and Damp-Heat constitutions among medical university students		
9:05 - 9:20	**FS2-1938:** Multifunctional 2D MXene Nanosheets for Biomedical Applications	**FS3-1443:** Evaluating the Impact of Skip Connections in Efficient Multi-Stage Feedback Attention Networks for Colorectal Polyp Segmentation	**FS1-0160:** Correlation between surface temperature at neck acupoints and cervical spine range-of-motion: A study using novel ROMIX system	**FS4-1558:** Multimodal Deep Learning for Breast Ultrasound Lesion Classification
9:20 – 9:35	**FS2-3745**: Construction of conductive hydrogels to promote cells migration through electrical stimulation for rapid wound healing	**FS3-2524:** In Silico Screening of BCL-2 Inhibitors Using Machine Learning, Molecular Docking, and Molecular Dynamics Approaches	**FS1-0822:** Non-contact Breathing Rate Monitoring Using an RGB Camera	**FS4-2500:** Machine Learning-Based Assessment of Traumatic Brain Injury Severity for Digital Health Applications
9:35 – 9:45	Q&A	Q&A	Q&A	Q&A
9:45 - 10:15	**COFFEE BREAK AND POSTER SESSION**			
10:15 - 10:35	**Invited speaker: Dr. Truong Xuan Vinh, Institute of Sustainability for Chemical, Energy and Environment, A*STAR, Singapore** Title: Programming biomaterials with visible light	**Invited speaker: Dr. Tram Dang, Nanyang Technological University, Singapore** Title: Biologically responsive drug delivery systems for management of chronic inflammation.	**Invited speaker: Assoc. Prof. Sung-Min Lee, Hanyang University, South Korea** Title: Biocompatible Light-Emitting Devices for Implantable Electronics	**FS4-0620: Dr. Phat Kim Huynh, North Carolina A&T State University, USA** Title: Retrieval-Verified Trust Envelopes: Hallucination-Safe Brain Tumor Classification with Frozen Large Language Models
10:35 – 10:50	**FS2-4633:** A Novel Drug Delivery Approach Using Magnetically Actuated Capsule Endoscope with Jet Injection for Precise Gastrointestinal Treatment	**AS3-5804:** A combined adjuvant and ferritin nanocage based mucosal vaccine against Streptococcus pneumoniae induces protective immune responses in a murine model	**FS1-1717:** Design and Development of a Low-Cost Velostat-Based Pressure Sensor for Flatfoot Detection	**FS4-4962:** Sparse Deep Neural Networks for Public Symphysis-Fetal Head Segmentation

10:50 - 11:05	**FS2-5248:** Facile Synthesis of Reduced Graphene Oxide Using L-Ascorbic Acid for Biomedical Applications	**FS3-6539:** Active surveillance of respiratory viruses in influenza-like illness and severe acute respiratory infection following the COVID-19 pandemic in Vietnam	**FS1-3884:** Characterizing Obstructive Sleep Apnea Endotypes using Wearable EEG Spectral Analysis	**FS4-5788:** CBSSNet: A Semi-Supervised Medical Image Segmenting Algorithm with Teacher-Student Binding via Cosine dissimilarity
11:05 - 11:20	**FS2-8907:** Composite Biomaterial for Laser-Assisted Tissue Adhesive Wound Healing	**FS3-8000:** Synthesized sgRNA databases with optimal GC-content as Davenport-Schinzel sequences	**FS1-4219:** Development of a Dynamic Lung Phantom for Real-Time Evaluation of Electrical Impedance Tomography Systems	**FS4-6947:** Comparative Analysis of Deep Neural Networks for Brain Tumor Classification in MRI Images
11:20 - 11:35	**FS3-4287:** Synthesis & Anticancer Activity Evaluation of Thiophene Derivatives	**FS3-9574:** MedXplain-VQA: Multi-Component Explainable Medical Visual Question Answering	**FS1-5980:** Development of a Circuit to Detect Drowsiness for Drivers by Measuring the EOG Signal	**FS4-6691:** CTM-PolypNet: A Unified Convolution-Transformer-Mamba Model for Polyp Segmentation
11:35 - 11:50		**FS1-4137:** Skin temperature at acupuncture points in the head and neck region across different age groups: A study using ATHERM infrared thermometer device	**FS1-6274:** Improving balance in stroke rehabilitation patients using Kinect camera combined with GCN model	
11:50 - 12:00	Q&A	Q&A	Q&A	Q&A
12:00 - 13:30	**LUNCH**			
14:00-20:00	**CITY TOUR**			

POSTER SESSION

VENUE: The University of Da Nang, 41 Le Duan		VENUE: University of Science and Technology, The University of Da Nang, 54 Nguyen Luong Bang	
Poster Session 02: Biomaterials and Drug Delivery	**Poster Session 03: Biological and Medical Science**	**Poster Session 01: Bio-Sensing Technology and Medical Devices**	**Poster Session 04: AI and Data Science for Health**
AS2-1149: Magnesium-doped baghdadite bioceramics with multi-target antibacterial activity and osteogenic potential for orthopedic implants	**FS3-2587:** Integrating computational chemistry and In vitro studies to screen anti-Bacillus cereus activity from Vietnamese Ganoderma sp.	**FS1-1551:** Automated Page-Turning System with AI for Printed Book	**FS4-0524:** Death Prediction of Heart Failure Patients using Machine Learning Techniques
AS2-1436: Gallium–silver liquid metal nanoparticles for the next generation of antibacterial hydroxyapatite implant coatings	**FS3-4287:** Synthesis & Anticancer Activity Evaluation of Thiophene Derivatives	**FS1-2813:** Baseline Wander Removal in Biomedical Signal Acquisition System for Heart Rate Monitoring	**FS4-0761:** Omnidirectional Camera-Based Fall Detection Using Deep Learning
FS2-2613: Study on synthesis of metal-organic framework MIL-53(Al)-NH2 and its ability of organic dyes removal in aqueous environment	**FS3-8521:** Arthroscopic reconstruction of the anterior talofibular and calcaneofibular ligaments for chronic ankle instability: Early outcomes from Military Hospital 175	**FS1-3009:** Evaluation of EEG channels related to Cognitive tasks: Concentration and Relaxation using Complex Morlet CWT and Pearson correlation	**FS4-0773:** A Deep Learning Approach for Skin Cancer Classification Using Vision Transformer and YOLOv8 Segmentation

FS2-4913: Green synthesis silver nanoparticles using extract of clitoria ternatea flowers and peristropheroxburghiana leaves for photocatalytic removal of congo red	**AS3-4766:** The status of single-use plastic waste generation and associated factors among lecturers and staff of two public universities in Danang city, Vietnam	**FS1-3196:** An Improvement on Class-imbalanced Cardiovascular Disease Classification using Spectrogram-based 12-lead ECG	**FS4-1516:** Based Data Source Classification for Skull Defect Reconstruction using AI
FS2_4950: Influence of support layer parameters on thinning behavior in multilayer hydroforming processes		**FS1-4266:** Development of IMU in Post-Stroke Rehabilitation Assessment	**FS4-3386:** Stress Detection Using Machine Learning: A Case Study on Human Mental States
FS2-7038: Development of novel metal-thiosemicarbazone complexes targeting HT-116 cell line using QSPR-based in silico modeling		**FS1-4566:** Development of a Upgraded Sarrus-Driven Mobile Robot for Height Adaptability and Environmental Functionality	**FS4-3822:** Developing an AI-Enhanced Individualized Prediction Tool for Psychopathological Symptoms in Vietnam: A Study Protocol
FS2-8744: Development of Ultrathin and Nanoporous π-Conjugated Polymer Films for Organic Field-Effect Transistor-Based Sensors in High-Performance Ammonia Detection at Human Breath Levels		**FS1-5261:** Vision Guided Robot Arm for Intelligent Shoe Sole Gluing Process Based on Yolov7	**FS4-7192:** AI Accelerator Based on Uniformly Segmented Linear Regression for Real-Time Diagnostics and Wearable Health Monitoring Systems
AS2-6406: Biophysical-inspired Engineered Collagen-Based Scaffolds for Artificial Lymph Node and Spleen Regeneration		**FS1-5435:** Evaluation and improvement of the design of mastectomy brafor breast cancer patients applying virtual try-on simulation	**FS4-7340:** Prediction of non-alcoholic fatty liver disease based on anthropometric and paraclinical laboratory data in the Vietnamese population
		FS1-6359: Research and fabrication of an electrochemical immunosensor based on gold-sputtered glass for protein detection	**FS4-7559:** Machine Learning-Based Classification of EEG Signals for Differentiating Between Stress and Relaxation States
		FS1-6805: Application of Simulation Modeling Methods in the Calculation and Design of Lower Limb Rehabilitation Equipment for Stroke Patients	**FS4-8103:** Classification of Fetal Health Status Based on application of Deep Learning and Support Vector Machine from Cardiotocogram Data.

		FS1-8011: A Study on Developing an Affordable 2-DoF Upper-Limb Rehabilitation Robot	**FS4-8769:** Generative Imputation and Graph-Neural-Network-based Classification to improve Mortality Prediction on Electronic Health Record Data
		FS1-9622: Emotion Recognition from Vietnamese Text Using PhoBERT and BiLSTM	**FS4-9402:** A Logistic Regression Analysis of the Association between Smoking, Vaping, and Respiratory Diseases
		FS1-9698: Integrating Dimensionality Reduction and Quantum Support Vector Machine (QSVM) for Cancer Diagnosis	

This event is sponsored by Vingroup Innovation Foundation (VINIF - VINBIGDATA)