TENTATIVE PROGRAM Venue: C2 Hall, Hanoi University of Science and Technology

Hanoi, December 28th-29th 2023

	DAY 1: 28 th December 2023 CONFERENCE DAY				
RECEPTION AND	O OPENING, <mark>C2 Hall</mark>				
7:30-8:30	Reception				
8:30-9:00	Opening remark and welcome speech				
	Prof. Huynh Quyet Thang, President of HUST				
	Group Photo				
9:00-10:30	PLENARY SESSION, C2 Hall				
	Chair: Prof. Nguyen Duc Thanh				
9:00-9:30	Prof. Robert S. Langer, Massachusetts Institute of Technology, USA				
	Title: From nanotechnology to mRNA	vaccines: How overcoming skepticism	led to new medical treatments and way	ys to tackle a global health challenge	
9:30-10:00	Prof. Cato T. Laurencin, University of Connecticut, USA				
	Title: Regenerative Engineering				
10:00-10:30	Prof. Kam W. Leong, Columbia University, USA				
	Title: Targeting Nucleic Acids to Combat Inflammation: A New Therapeutic Strategy				
10:30-11:00	Prof. Mark Prausnitz, Georgia Institute of Technology, USA				
	Title: Translation of drug delivery devices from lab to clinic				
11:00-11:30	COFFEE BREAK				
11:30-12:00	KEYNOTE SESSION, C2 Hall				
	Chair: Prof. Mark Prausnitz				
11:30-12:00	Prof. Thang Toan Phan, National University of Singapore, Singapore				
	Title: Translational Research in Cellular Therapy: Umbilical Cord Stem Cell 4.0 for Regenerative Medicine, Cellular and Gene Therapy and				
	Healthy Longevity				
12:00-12:30	Prof. Ho Ba Tho Marie-Christine, Université de Technologie de Compiègne, France				
	Title: Knowledge extraction from medical imaging for advanced patient specific musculoskeletal models				
12:30-14:00		LUNCH			
14:00-15:00		KEYNOTE SES			
		Chair: Prof	Bin Feng		
14:00-14:30	Prof. Yadong Wang, Cornell University,				
	Title: Design and application of bioelastomers				
14:30-15:00	Prof. Thanh Duc Nguyen, University of Connecticut, USA				
	Title: Smart biodegradable polymers at small scales for medical and healthcare applications				
	SCIENTIFIC SESSION				
15:05-17:30	Session 01: Bio-Sensing Technology	Session 02: Biomaterials and Drug	Session 03: Biological and Medical	Session 04: AI and Data Science for	
	and Medical Devices	Delivery	Science	Health	
	C2 Hall	C2 - 204	C2 Conference Room	C1 - 222	
	Chair: Prof. Nguyen Duc Thanh	Chair: Prof. Liu Yang	Chair: Prof. Yupeng Chen	Chair: Dr. Nam Sy Vo	

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15:05-15:20	Invited speaker: Prof. Bin Feng,	Invited speaker: Prof. Xu	Invited speaker: Dr. Dang Thuy	Invited speaker: Dr. Phat K.	
	University of Connecticut, USA	Chenjie, City University of Hong Kong, China	Tram , Nanyang Technological University, Singapore	Huynh, University of South Florida, USA	
	Title: How Does Mechanical Loading		Title: Immuno-modulatory	Title: Real-Time Monitoring and	
	Make Bone Microstructure	Title: Cryo-microneedles for Cell	biomaterials and therapeutic	Diagnosis of COVID-19 Using	
		Delivery	delivery systems	Magnetic Respiratory Sensing Technology and Machine Learning	
15:20-15:35	FS1-16: Challenges and Difficulties of	FS2-51: Medical Textile Coated by	FS3-11: Study of Neuronal Cell	FS4-32: Salient Features Selection	
	Multi-Spectral MRI Based Brain	Photocatalytic Titanium Dioxide	Morphology and Motility on	for Liver Disease Prediction using	
	Tumor Detection and Segmentation	Nanoparticles for Self-Cleaning Ability	Anisotropically Patterned Surfaces	Machine Learning	
15:35-15:50	FS1-25: A Novel Acoustic Reflection	FS2-53: Synthesis of Cu-Doped	FS3-59: Clinical and molecular	FS4-61: Improve Classification	
	Principle for Developing Tactile	ZNO nanoparticles by co-	surveillance of artemisinin resistance	Quality of Fetal Status from	
	Sensors Integrated with Catheters for Cardiac Ablation	precipitiation method for photocatalytic activity and	falciparum malaria in Central Highlands in Vietnam	Cardiotocogram Data by Using Machine Learning	
	Caldiac Ablation	antibacterial properties into		Machine Learning	
		nancellulose fiber			
15:50-16:00	Q&A	Q&A	Q&A	Q&A	
16:00-16:30	COFFEE BREAK AND POSTER SESSION				
16:30-16:45	FS1-26: Integration of IMU Sensors	FS2-71: Preliminary synthesis and	FS3-62: Molecular epidemiology of	Invited speaker: Dr. Nam Sy Vo,	
	with Fugl-Meyer Assessment for	characterization of poly(lactic	human respiratory syncytial virus in	GeneStory & Vingroup BigData	
	Evaluating Lower Limb Rehabilitation in Stroke Patients	acid)/chitosan/n-hydroxyapatite composite scaffolds for bone tissue	Viet Nam National Children's Hospital	Institute, Vietnam Title: Data Science and Machine	
	Kenabilitation in Stroke Fatients	engineering	Hospital	Learning Approaches to Decoding	
				Human Genomes at Scale	
16:45-17:00	FS1-44: Using EMG Sensor to	FS2-80: Solutions For Affordable	FS3-63: Computer-aided building of	FS4-65: Stress prediction using	
	Evaluate the Assistance Level of a	Plastination – An Initial Attempt on	pharmacophore and QSAR model of	machine-learning technique on	
	Developing Rehabilitation Device	Chicken Hearts	benzo-fused compounds applied for	physiological signal	
			screening of natural neolignans featuring anti-inflammation via		
			inhibiting NF-kB.		
17:00-17:15	FS1-47: The non-contact height	FS2-83: Study on the preparation and	FS3-67: Evaluation of New Insulin	FS4_116: Magnetic Bead Conjugated	
	measurement method using Mediapipe	investigation of structural and	Infusion Therapy with Potential	Lung Tumor Cell Binding Efficiency	
	and OpenCV in a 2D space	photocatalytic properties of ZnO	Variables for Diabetes Mellitus ICU	Assessment Based on Deep-Learning	
		nanostructure materials co-doped	Patients	Approach	
17:15-17:30	Q&A	with Co2+, Ni2+ Q&A	Q&A	Q&A	
18:30-21:00		DINER (Hotel du Parc Hanoi, 84 Tran M			
		DAY 2: 29 th December 20		/	
8:00-10:00	KEYNOTE SESSION, C2 Hall				
	Chair: Prof. Yadong Wang, Cornell University, USA				
8:30-9:00	Prof. Ankur Singh, Georgia Institute of Technology, USA Title: Multiscale Immune Technologies for Discovering and Meduleting Immune Processes				
9:00-9:30	Title: Multiscale Immune Technologies for Discovering and Modulating Immune Processes Prof. Xiang-Dong Edward Guo, Columbia University, USA				
7.00-7.30	Title: How Does Mechanical Loading Make Bone Microstructure				

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9:30-10:00	Prof. Levente Kovács, Óbuda University, Hungaria Title: Robust control of Cyber-Medical Systems SCIENTIFIC SESSION				
10:05-12:15					
	Session 01: Bio-Sensing Technology and Medical Devices C2 Hall Chair: Prof. Bin Feng	Session 02: Biomaterials and Drug Delivery C2 - 204 Chair: Prof. Xu Chenjie	Session 03: Biological and Medical Science C2 Conference Room Chair: Dr. Dang Thuy Tram	Session 04: AI and Data Science for Health C1 - 222 Chair: Prof. Hai Vu	
10:05-10:20	Invited speaker: Dr. Thien Nguyen, National Institute of Health, USA Title: Utilization of Near-Infrared Spectroscopy as a wearable technology to Monitor General and Pregnancy Health	Invited speaker: Prof. Liu Yang , Peking University School of Stomatology, China Title: Biodegradable piezoelectric scaffold for cartilage regeneration	Invited speaker: Prof. Yupeng Chen, University of Connecticut, USA Title: Janus Base Nanomaterials for Regenerative Engineering	FS4-121: Machine Learning–based Diagnosis of Autism Spectrum Disorder using Resting-state Functional Magnetic Resonance Imaging Data	
10:20-10:35	FS1-60: A novel breast insert design approach of mastectomy bra for breast cancer patients applying 3D scanning technology	FS2-110: Biomechanical Evaluation of Polyether Ether Ketone (PEEK) Cranial Implants with Different Thickness Using Finite Element Method	FS3-77: HosRev: A Comprehensive Aspect-Category Sentiment Analysis Dataset on Hospital Reviews in Vietnam	FS4-128: Identification of patients with Attention Deficit Hyperactivity Disorder from Electroencephalography Signals using Support Vector Machine Models and Linear Discriminant Analysis Algorithm	
10:35-10:50	FS1-74: A novel approach to protein detection utilizing the microfluidic preconcentrator based on the impedance measurement method	AS-04: A novel injectable piezoelectric hydrogel for osteoarthritis treatment	FS3-78: Lipidomic Analysis Reveals Biomarkers for Alzheimer's Disease	FS1-33 : Systematic evaluation of loss functions for ovarian tumors segmentation from ultrasound images	
10:50-11:20		COFFEE BREAK AN			
11:20-11:35	Invited speaker: Dr. Michinao Hashimoto, Singapore University of Technology and Design, Singapore Title: Direct Ink Writing 3D Printing for Fabricating MicROFLUIDIC Electronic Devices		Invited speaker: Prof. Thuy Ngo, Oregon Health and Science University, USA Title: De-mixing high-throughput measurements of circulating RNA and extracellular vesicles in the blood for cancer detection and treatment stratification	FS4-133: Melanoma Classification using Machine Learning and Deep Learning	
11:35-11:50	FS1-130: Novel Electrochemical Immunosensing Structure Based on a Functionalized Carbon Electrode with 11-MUA for NSE Protein Detection		FS3-104: Exploring novel plumbagin derivatives as potential inhibitors for HepG2 cell line using QSAR and molecular docking models	FS4-143: Application artificial intelligence to identifying and personalize lung cancer treatments	
11:50-12:05	FS4-123: Development of a smart necklace for stroke warning based on IoT and Convolutional Neural Network Deep Learning Techiniques		FS3-117: A novel complex impedance flow cytometry method for single-cell electrical characterization toward biomedical applications	Invited speaker: Prof. Marco Santello, Arizona State University, USA Title: NSF Industry-University Cooperative Research Centers: A successful model for supporting	

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				partnerships between industry and universities	
11:05-12:15	Q&A		Q&A	Q&A	
12:30-13:30		LUNCH			
14:00-17:00	ROUNTABLE: TH	ROUNTABLE: TRAINING AND RESEARCH ON HEALTH SCIENCE AND TECHNOLOGY IN VIETNAM			
		Room C1-222 (invited only)			
18:00		Dinner (invited only)			
DAY 3: 30 th December 2023					
Sightseeing, Trang An – Ninh Binh (Speakers and Registration)					