4th East Asian Pacific Student Workshop on Nano-Biomedical Engineering

December 15-16, 2010 National University of Singapore (NUS), Singapore

Time Number Title of Presentation Welcome Address Session 1: Biomaterials Chair: Davod Alizadehrad (Tohoku University) 08:45 - 09:00 OS1-1 Macroporous Cellulosic Hydrogel Scaffold as 3D Hepatocyte Culture Platform 09:00 - 09:15 OS1-2 Biodegradable Hyperbranched Hydrogel: A Mechano-responsive and Cell Encapsulation Study 09:15 - 09:30 OS1-3 Co-assembly of ECM-mimetic Peptide Amphiphiles into Hybrid Nanofibers 09:30 - 09:45 OS1-4 Fabrication and Characterization of the Gelatin, Chitooligosaccharide, and Demineralized Bone Powder Blended Scaffolds Applied for Bone Tissue Engineering Keynote Lecture 1 Chair: Poh Yong Cheng (National University of Sings O9:50 - 10:30 KL-1 Mechanics based microfluidic devices for disease detection & diagnosis Coffee Break & Poster Session Session 2: Biomedical Devices 1 Chair: Takashi Nakagawa (Nagoya Institute of Technol 11:15 - 11:30 OS2-1 Development of Double-sided Si Neural Probe for Deep Brain Stimulation 11:30 - 11:45 OS2-2 Development of Optical Waveguide on Si Neural Probe for Multiple Optical Stimulations of Neural Cell 11:45 - 12:00 OS2-3 Fish on Chip: A Microfluidic Platform for In Vivo Drug Studies in Developing Fish Embryo 12:00 - 12:15 OS2-4 Development of a Sensor System for Measuring a Contact Stimulus by Diapers Lunch Break	Chulalongkorn University Prof. C.T. Lim National University of Singapore Plogy Soichiro Kanno Tohoku University Akibiro Noriki
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12:30 - 13:30	Takuya Nomata Tohoku University
	Naoaki Yonezawa Tohoku University
Keynote Lecture II Chair: Zhu Jingling (National University of Singapore	1
13:30 - 14:10 KL-2 Medical Ultrasonic Applications of Nonlinear Nature of Microbubbles	Prof. Shin-ichiro Umemura Tohoku University
Session 3: Medical Imaging & Ultrasound Chair: Hisashi Kino (Tohoku University)	
14:15 - 14:30 OS3-1 Analysis on Cavitation Inception and Temperature Rise in Tissue Mimicking Gel	Tatsuya Moriyama Tohoku University
14:30 - 14:45 OS3-2 Analysis of Non-Uniform Vibration of Single-Element High Intensity Focused Ultrasound Transducer	Kenji Otsu Tohoku University
14:45 - 15:00 OS3-3 Basic Study on Accurate Estimation of Surface Roughness Using Ultrasonic RF Echo for Application to Luminal Surface of Arterial Wall	Kosuke Kitamura Tohoku University
15:00 - 15:15 OS3-4 Development of a Biomedical Photoacoustic Microscopy with Hollow Optical Fiber	Hideyuki Koike Tohoku University
15:15 - 15:30 OS3-5 Overlapping community structure of structural brain network in young healthy individuals	Kai Wu Tohoku University
15:30 - 16:15 Coffee Break & Poster Session	
Session 4: Drug Delivery Chair: Emiko Maseki (Tohoku University)	
16:15 - 16:30 OS4-1 Polymeric Gels: Drug Delivery Systems for Minimal Invasive Brain Cancer Chemo Therapy	Pinunta Nittayacharn Mahidol University
16:30 - 16:45 OS4-2 Polyethyleneimine-grafted poly(N-3-hydroxypropyl)-aspartamide as a biodegradable gene vector for efficient gene transfection	Yuan Ping National University of Singapore
16:45 - 17:00 OS4-3 Hydrogen bond-assisted self-assembly and formation of polymer vesicles for drug delivery	Jingling Zhu National University of Singapore
17:00 - 17:15 OS4-4 In vivo Real-time Tracking of Polymeric Micelles for DDS Visualization	Yohei Hamanaka Tohoku University
17:30 - 18:30 Lab. Tour (Division of Bioengineering, NUS)	
19:00 - Banquet	

		Thursday, December 16, 2010 Oral Presentations			
Time	Number	Title of Presentation	Speaker		
		Keynote Lecture III Chair: Kenji Otsu (Tohoku University)			
08:30 - 09:10	KL-3	Some Theoretical Issues on Measurement-Integrated Simulation	Prof. Toshiyuki Hayase Tohoku Universty		
		Session 5: Biomechanics Chair: Naoaki Yonezawa (Tohoku University)			
09:15 - 09:30	OS5-1	Observation of cell behavior on substrates with elasticity gradient	Takashi Nakagawa Nagoya Institute of Technology		
09:30 - 09:45	OS5-2	Real-time observation of microtubule dynamics in cultured vascular endothelial cells exposed to shear stress	Koki Oya Tohoku University		
09:45 - 10:00	OS5-3	Observation of velocity of Antibody-modified HL60 cells on glass plates using the inclined centrifuge microscope	Hiroki Sato Tohoku University		
10:00 - 10:15	OS5-4	Can Viscosupplement and Crosslinking Recover the Hydration of Nucleus Pulposus?	Ya-Wen Kuo National Taiwan University		
10:15 - 11:00		Coffee Break & Poster Session			
		Session 6: Biomedical Devices II Chair: Wen-Kai Chou (National Taiwan University)			
11:00 - 11:15	OS6-1	A Micro-fluidic Device for Bead and Cell-based Biosensors	Shashi Ranjan National University of Singapore		
11:15 - 11:30	OS6-2	Novel gel pad array for microbead based hybridization assay and immunoassay	Qingdi Zhu National University of Singapore		
11:30 - 11:45	OS6-3	Development of the Active Graft for the Total Cavopulmonary Connection with Shape-memory Alloy Fibers	Akihiro Yamada Tohoku University		
11:45 - 12:00	OS6-4	Evaluation of the Newly Designed Paediatric Pulmonary Heart Valve	Shota Yabe Tohoku University		
12:00 - 12:15	OS6-5	High Current Density Vertical MOSFET Technology for Non-volatile SpRAM Embedded in the Fully Implantable Retinal Prosthesis Chip	Hisashi Kino Tohoku University		
12:15 - 12:30	OS6-6	Staircase Voltage MOSFET Driver Circuit for Triggered HIFU Treatment	Keisuke Takada Tohoku University		
12:30 - 13:30		Lunch Break			
		Keynote Lecture IV Chair: Soneela Ankam (National University of Singapore)	ore)		
13:30 - 14:10	KL-4	Reconstructing the stem cell microenvironment by delegation – the liquid and the solid way	Assoc. Prof. Michael Raghunath National University of Singapore		
	Session 7: Tissue Engineering Chair: Wei-Yin Lin (National Cheng Kung University)				
14:15 - 14:30	OS7-1	Assessment of Physical Characterization of Vascular Scaffold from Thai Silk Fibroin	Piyanuch Thitiwuthikiat Chulalongkorn University		
14:30 - 14:45	OS7-2	Investigation of the Interaction Between Neuron and Glial Cell in Microenvironment	Yi-Lun Chiang National Cheng Kung University		
14:45 - 15:00	OS7-3	Annulus Fibrosus Tissue Engineering using Cell-Sheet Technology	Eugene Yong-shun See National University of Singapore		
15:00 - 15:15	OS7-4	Myofibroblasts: Pilot gene profile study and Epigenetics	Ariel B. Tan National University of Singapore		
15:15 - 16:00		Coffee Break & Poster Session			
		Session 8: Computational Bioengineering Chair: Ramesh Ramji (National University of Singapo	re)		
16:00 - 16:15	OS8-1	Blood Flow Analysis in the Left Atrium with/without Atrial Fibrillation	Ryo Koizumi Tohoku University		
16:15 - 16:30	OS8-2	Large-scale numerical simulation of blood flow in microvessels	Davod Alizadehrad Tohoku University		
16:30 - 16:45	OS8-3	Cellular Consequences of a Genetic Defect in the Gastrointestinal Tract	Yong Cheng Poh National University of Singapore		
		Session 9: Others Chair: Takuya Nomata (Tohoku University)			
16:50 - 17:05	OS9-1	Plastic Antibodies: Molecularly Imprinted Polymeric Nanoparticles for Recognition of Viruses	Niranjani Sankarakumar National University of Singapore		
17:05 - 17:20	OS9-2	Regulatory mechanism of the level of BRCA1/BARD1 expression following DNA damage	Emiko Maseki Tohoku University		
17:20 - 17:35	OS9-3	Fast and high-quality imaging of thick biological specimens using focal modulation microscopy with acousto-optical modulators	Shau Poh Chong National University of Singapore		
17:35 - 17:50	OS9-4	A Novel Microfluidic Approach for Layer-by-layer Encapsulation of Oil Microdroplets	Chaitanya Kantak National University of Singapore		
18:00 -		Awards Presentation & Closing Remarks			

	December 15-16, 2010 Poster Presentations	
Number	Title of Presentation	Presenter
P-1	Effects of wax on the adherence of wound dressings on full thickness and partial thickness wounds	Jutamas Rujisomnapa Chulalongkorn University
P-2	Effects of ethyl alcohol on the properties of silk sericin-PVA scaffold	Tippawan Siritientong Chulalongkorn University
P-3	Interaction between the native cardiovascular system and different models of centrifugal flow rotary blood pumps	Telma K. Sugai Tohoku University
P-4	An Effective Method to Modify Stent Shape Suitable for Clinical Manifestation	Daisuke Yoshino Tohoku University
P-5	Development of the Total Artificial Heart (TAH) by the Use of Helical Flow Pumps	Jiongxun Chen Tohoku University
P-6	Development of an Implantable Hypothermia Device for Atrial Defibrillation	Chihiro Koga Tohoku University
P-7	Preliminary study on the development of a new artificial papillary muscle (PM) using shape memory alloy (SMA) fibres	Hisashi Hashimoto Tohoku University
P-8	Development of Fine Sized Cu Through-Si Via Technology for Three-Dimensional Stacked Retinal Prosthesis Chip	Yuki Ohara
P-9	Sleep Behavioral Analysis System	Tohoku University Jetsada Arnin
P-10	EEG-based Neurofeedback Device	Mahidol University Supassorn Rodrak
P-11	Biodistribution of Novel Silica-Coated Nano-Particles for Fluorescence and CT Imaging in Tumor-Bearing Mice	Mahidol University Tomohiko Nakagawa
P-12	Sound Speed Measurement of Thermally Denatured Biological Tissue	Tohoku University Takashi Shishitani
P-13	High Resolution Ultrasound Imaging of Human Skin and its Relation to Biomechanical Properties	Tohoku University Kazutoshi Kumagai
P-13	Early Detection of Cervical Precancer <i>In Vivo</i> using NIR Raman Spectroscopy and Partial Least Square Discriminant	Tohoku University Shiyamala Duraipandian
P-14	Analysis	National University of Singapore Ryuichi Harada
P-15	Styrylbenzoxazole Derivatives for In Vivo Imaging of Alpha-synuclein Neuropathology	Tohoku University Yuta Shimazaki
P-16	3D Reconstruction of High Intensity Focused Ultrasound Pressure Field from Optical Measurement	Tohoku University
P-17	Stability Study of SN-38 Released from Polymeric Gels	Korbua Punyokun Mahidol University
P-18	Biocompatibility Study of Injectable Polymeric Gels in Rat Brains	Ketpat Vejjasilpa Mahidol University
P-19	Development of Lamellarin Encapsulated Nanoparticles using file sonication procedure	Hathaichanok Pungkom Mahidol University
P-20	$Lamellarin\ encapsulated\ Nanoparticles\ using\ Poly(\varepsilon\text{-}caprolactone)\ and\ Poly(D,L\text{-}lactide)\ as\ core\ materials$	Nattharin Swatdipakdi Mahidol University
P-21	Development of Nanoparticle-based Photodynamic Therapy as a Novel Anti-viral Strategy	Meng Earn Lim National University of Singapore
P-22	In Vivo Molecular Imaging of Vasculature in Ischemic Model Mice	Yoh Hamada Tohoku University
P-23	Experimental Validation of Ultrasonic-Measurement-Integrated Blood Flow Simulation Using Carotid Artery Models	Takayuki Sawao Tohoku University
P-24	Roles of Rho GTPases on Redistribution of Focal Adhesion in Endothelial Cells Exposed to Cyclic Stretch	Wenjing Huang Tohoku University
P-25	Motion Compensation of Adjacent Motion Segment Secondary to Dynamic Spine Stabilization	Wen-Kai Chou National Taiwan University
P-26	Why cells have different morphology — tensegrity model stimulation	Wei-Yin Lin National Cheng Kung University
P-27	A Computational Investigation of Gastric Electrical Stimulation	Aishwariya Kannan National University of Singapore
P-28	"Smart Capsules" as Bioprobes	Jianhao Bai National University of Singapore
P-29	A DC Component Based Blind Watermarking Scheme for Medical Images	Muhammad Imran Khan Petronas University of Technology
P-30	Contribution of oral intake of bacterial components to recovery of damaged skeletal muscle	Tomiaki T. Kawaoka Tohoku University
P-31	Response Inhibition in Patients with Instinctive Grasp Reaction	Eizaburo Suzuki Tohoku University
P-32	Effects of Thai Silk Fibroin/Gelatin on Human Cancellous Bone	Rungnapa Vorrapakdee Chulalongkorn University
P-33	Histamine Receptor H3 Regulates Insulin Secretion in Mouse Pancreatic β-cell Line MIN6 cells	Tadaho Nakamura Tohoku University
P-34	Identification of a novel BARD1-interacting protein and analyses of its function	Ayako Matsuzawa Tohoku University
P-35	Induction of stem cell differentiation using topographical cues	Soneela Ankam
<u> </u>		National University of Singapore