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

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

Wednesday, December 15, 2010 Oral Presentations					
Time	Number	Title of Presentation	Speaker		
08:30 - 08:45		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	Bramasta Nugraha National University of Singapore		
09:00 - 09:15	OS1-2	Biodegradable Hyperbranched Hydrogel: A Mechano-responsive and Cell Encapsulation Study	Zibiao Li National University of Singapore		
09:15 - 09:30	OS1-3	Co-assembly of ECM-mimetic Peptide Amphiphiles into Hybrid Nanofibers	Jingnan Luo National University of Singapore		
09:30 - 09:45	OS1-4	Fabrication and Characterization of the Gelatin, Chitooligosaccharide, and Demineralized Bone Powder- Blended Scaffolds Applied for Bone Tissue Engineering	Thakoon Thitiset Chulalongkorn University		
		Keynote Lecture I Chair: Poh Yong Cheng (National University of Singap	oore)		
09:50 - 10:30	KL-1	Mechanics based microfluidic devices for disease detection & diagnosis	Prof. C.T. Lim National University of Singapore		
10:30 - 11:15		Coffee Break & Poster Session			
		Session 2: Biomedical Devices I Chair: Takashi Nakagawa (Nagoya Institute of Technol	ogy)		
11:15 - 11:30	OS2-1	Development of Double-sided Si Neural Probe for Deep Brain Stimulation	Soichiro Kanno Tohoku University		
11:30 - 11:45	OS2-2	Development of Optical Waveguide on Si Neural Probe for Multiple Optical Stimulations of Neural Cells	Akihiro Noriki Tohoku University		
11:45 - 12:00	OS2-3	Fish on Chip: A Microfluidic Platform for In Vivo Drug Studies in Developing Fish Embryo	Deepak Choudhury National University of Singapore		
12:00 - 12:15	OS2-4	Development of a Sensor System for Measuring a Contact Stimulus by Diapers	Takuya Nomata Tohoku University		
12:15 - 12:30	OS2-5	Maneuver of a Vehicle with Nonholonomic Constraints	Naoaki Yonezawa Tohoku University		
12:30 - 13:30		Lunch Break			
		Keynote Lecture II     Chair: Zhu Jingling (National University of Singapore)			
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)			
19:30 -		Banquet			

09.30 - 09.45   OSS-2   Relevance observation of microtubule dynamics in cultured vascular endothelial cells exposed to abear access   Tabaka University     09.45 - 10.00   OSS-3   Microscope   Tabaka University     09.45 - 10.00   OSS-4   Can Viscosupplement and Crosslinking Recover the Hydration of Nucleus Pulposus?   Ya-Wen Kuo     10.00 - 10.15   OSS-4   Can Viscosupplement and Crosslinking Recover the Hydration of Nucleus Pulposus?   Ya-Wen Kuo     National Taiwan University     Service & Pauer Section     Service & Pauer Section     Service & Pauer Section     Service of Bead and Cell-based Biosensors     Shash Ranjan     National University of Singation 11:00     11:15 - 11:30   OS6-2     Novel gel pad array for microbad based hybridization assay and immunoassay   Mathan Yanada     Tabaka University     Tabaka Univ			Thursday, December 16, 2010 Oral Presentations	
88.39 - 09.10 K1-3 Some Theoretical Issues on Measurement-Integrated Simulation The TableAu Linversity   08.15 - 09.30 OS.5 Observation of cell behavior on substrates with elasticity gradient Tababi Natagava Nagoya Institute of Technolo   09.30 - 09.40 OS.5 Reservation of cell behavior on substrates with elasticity gradient Tababi Natagava Nagoya Institute of Technolo   09.45 - 10.60 OS.5 Reservation of cell behavior on substrates with elasticity gradient Tababi Natagava Nagoya Institute of Technolo   09.45 - 10.60 OS.5 Observation of vehecity of Autibudy-modified HL fot cells on glass place using the inclined centifiege Tito's Nagoya Institute of Technolo   10.60 - 10.11 OS.54 Can Visconsplaement and Constitution (Reserver the Hydration of Nachus Pulyosar? Namon Tabava University   11.50 - 11.10 OS.64 Norte Tababi Natagava Nagoya Institute of Singo Nataonal Linversity of Singo   11.50 - 11.10 OS.64 Norte Station of the Nexity Designed Pascificity Cultures (Nagoya Institute of Nago Singo) Nataonal Linversity of Singo   11.50 - 11.51 OS.64 Norte Station of the Nexity Designed Pascificity Cultures (Nagoya Institute of Nago Singo) Nataonal Linversity of Singo   11.50 - 12.10 OS.64 Ivaluation of the Nexity Designed Pascificity Cultures (Nagoya Cultu	Time	Number		Speaker
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0915 - 0930     OS5-1     Observation of cell behavior on substrates with elasticity gradient     Nagoya Institute of Technolo       0930 - 09-35     OS5-2     Real-time observation of microtabule dynamics in cultured vascular endubelial cells exposed to shear     Kel (Oya       0945 - 1060     OS5-3     Benefation of velocity of Antibody-modified III 60 cells on glass plates using the inclined centrifuge     Hinke Liniversity       1000 - 10.15     OS5-4     Can Viscosupplement and Crosslinking Recover the Hydration of Nucleus Pulpouss?     Ya-Wet Kuo       1015 - 1130     OS6-2     Notes and the internet of the control of the contr	08:30 - 09:10	KL-3		
(9):15.09.0     (05:3)     (05):evaluation of cell behavior on substrates with elasticity gradent     Nagony lastilia eoT (achono)       (9):30.09.4)     (05:3)     Real-error of velocity of Antibody-modified III 60 cells on glass plates using the inclined centrify     The black Triversity       (9):30.101.101     (05:5)     Can Viscosarplement and Crosslinking Recover the Hydration of Nucleus Pulpous?     Valer Kao       (1):101.101     (05:5)     Can Viscosarplement and Crosslinking Recover the Hydration of Nucleus Pulpous?     National Triversity       (1):101.101     (05:6)     Caffer Brack & Puster Session     National Triversity of Singa       (1):101.111     (05:6)     Altern-fluidic Device for Bead and Cell-based Biosensots     National Triversity of Singa       (1):101.111     (05:6)     Novel gel pad array for microbead based hydridization assay and immunoassay     National Triversity of Singa       (1):101.112     (05:6)     Poelopment of the Newly Designed Padiatic Palmonary Heart Valve     Shabit Ranja       (1):101.112     (05:6)     Valuation of the Newly Designed Padiatic Palmonary Heart Valve     Shabit Ranja       (1):101.112     (05:6)     Valuation of the Newly Designed Padiatic Palmonary Heart Valve     Shabit Nitro Yanda       (1):101.112     (05:6)     Valuation o			Session 5: Biomechanics Chair: Naoaki Yonezawa (Tohoku University)	Takashi Nakagawa
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09:35 - 10:30   05:35 microscope   Tobolau University     10:00 - 10:15   05:54   Can Viacosappilement and Crosslinking Recover the Hydration of Nucleus Pulposus?   YV-Wen Kais National Taiwan University     10:00 - 10:15   05:54   Caffee Break & Poster Session   Shashi Ranjian National University of Singa     11:00 - 11:15   05:61   A Micro-fluidie Device for Bead and Cell-based Biosensors   Shashi Ranjian National University of Singa     11:15 - 11:30   05:62   Novel gel pad array for microbead based hybridication assay and immunoassay   Oringd Zhu National University of Singa     11:15 - 11:30   05:62   Novel gel pad array for microbead based hybridication assay and immunoassay   Noingd Zhu National University of Singa     11:45 - 12:20   05:64   Fobiasi Carine Messity Designed Paediatic Pulmonary Icancetion with Shape-memory Aluy Histaki Kino Tobolau University   Shota Yabe Tobolau University     12:15 - 12:30   05:66   Staricase Voltage MOSFET Driver Circuit for Triggered HIFU Treatment   Kasee Porf Michael Rapha National University     13:30 - 14:10   K1-4   Reconstructing the stem cell microenvironment by delegation – the liquid and the sold way   Assoc Porf Michael Rapha National University     14:15 - 14:30   057:1   Assessment of Physical Characterization of Vascular Scaffold from Thai Silk Fibroin	09:30 - 09:45	OS5-2	stress	Tohoku University
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Solution     Chair: Wen-Kat Choir (National Taiwan University)       11:00 - 11:15     OS6-1     Alkiron-Liudic Device for Bead and Cell-based Biosensors     Shashi Ranjan National University of Singat       11:15 - 11:20     OS6-2     Novel gel pad array for microbead based hybridization assay and immunoassay     National University of Singat       11:30 - 11:45     OS6-2     Novel gel pad array for microbead based hybridization assay and immunoassay     National University of Singat       11:30 - 11:45     OS6-2     Novel gel pad array for microbead based hybridization assay and immunoassay     Akihiro Yamada       11:45 - 12:00     OS6-4     Evaluation of the Newly Designed Paediatric Pulmonary Heart Valve     Shota Value       12:00 - 12:15     OS6-5     High Current Density Vertical MOSFET Technology for Non-volatile SpRAM Embedded in the Fully     Hisashi Kino       12:15 - 12:23     OS6-6     Staticase Voltage MOSFET Driver Circuit for Triggered IIIFU Teatment     Kokou University       12:30 - 14:10     KL-4     Reconstructing the stem cell microenvironment by delegation – the liquid and the solid way     National University of Singat       13:30 - 14:10     OS7-1     Assessment of Physical Characterization of Vascular Seaffold from Thai Silk Fibroin     Pyrauch Thitwulhkiat       14:45 - 14:20     OS7-2	10:00 - 10:15	OS5-4	Can Viscosupplement and Crosslinking Recover the Hydration of Nucleus Pulposus?	
11:00 · 11:15 OS6-1 A Micro-fluidic Device for Bead and Cell-based Biosensors Shashi Ranjan National University of Singa   11:15 · 11:30 OS6-2 Novel gel pad array for microbead based hybridization assay and immunoassay Ongadi Zhu National University of Singa   11:30 · 11:45 OS6-3 Development of the Active Graft for the Total Cavopulmonary Connection with Shape-memory Alloy Febers. Akthiro Yanada Tohoku University   11:30 · 11:45 OS6-4 Evaluation of the Newly Designed Paediatric Pulmonary Heart Valve Shot Yabe Tohoku University   12:00 · 12:15 OS6-5 High Current Density Verical MOSFET Technology for Non-volatile SpRAM Embedded in the Fully Implantable Retinal Prosthesis Chip Hissaki Kno Tohoku University   12:15 · 12:30 OS6-6 Staircase Voltage MOSFET Driver Curcuit for Triggerd HIFU Treatment Keisuke Takada Tohoku University   12:30 · 13:30 <i>Lunch Break</i> Keisuke Takada Tohoku University Stairaal Valversity   13:30 · 14:10 KL-4 Reconstructing the stem cell microenvironment by delegation – the liquid and the solid way Assoc. Prof. Michael Rapha National University of Singa   14:15 · 14:30 OS7-1 Assessment of Physical Characterization of Vascular Scaffold from Thai Silk Fibroin Plyanuch Thatwuthkint Chalalongkorn University of Singa   15:10 · 16:30 OS7-2 Investigation of the Interaction Between Neuron and Glial Cell in Microenvironment Microal University of Singa	10:15 - 11:00		Coffee Break & Poster Session	
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11:30-11:43   OS6-3   Fibers   Toboku University     11:45-12:00   OS6-4   Evaluation of the Newly Designed Paediatric Pulmonary Heart Valve   Shota Yabe Toboku 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   Hisschi Kino     12:15-12:30   OS6-6   Staiccase Voltage MOSFET Driver Circuit for Triggered HIFU Treatment   Keisuke Takada Toboku University     12:30-13:30 <i>Lunch Break</i> KL-4   Reconstructing the stem cell microenvironment by delegation – the liquid and the solid way 	11:15 - 11:30	OS6-2	Novel gel pad array for microbead based hybridization assay and immunoassay	Qingdi Zhu National University of Singapore
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12:00-12:15   OS6-5   Implantable Retinal Prosthesis Chip   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: Soncela Ankam (National University of Singapore)     13:30-14:10     KL-4   Reconstructing the stem cell microenvironment by delegation – the liquid and the solid way   Assoc: Prof. Michael Raghu National University of Singapore)     14:15 - 14:30     OS7-1   Assessment of Physical Characterization of Vascular Scaffold from Thai Silk Fibroin   Plyanuch Thitiwuthikiat Chulalongkorn University     14:30 - 14:45   OS7-2   Investigation of the Interaction Between Neuron and Glial Cell in Microenvironment   Yi-Lun Chiang National University of Singa     14:45 - 15:00   OS7-3   Annulus Fibrosus Tissue Engineering using Cell-Sheet Technology   Stational University of Singa     15:15 - 16:00   Coffice Break & Poster Session   Ariel B. Tan National University of Singa     16:00 - 16:15   OS8-1   Blood Flow Analysis in the Left Atrium with/without Atrial Fibrillation   Ryo Koizami Tohoku University     16:30 - 16:45   OS8-3   Cellular Consequences of a Genetic Defect in the Gastrointestin	11:45 - 12:00	OS6-4	Evaluation of the Newly Designed Paediatric Pulmonary Heart Valve	
12:15 - 12:30   OS6-6   Starcase Voltage MOSFE1 Driver Circuit for Inggered HIPO Treatment   Tohoku University     12:30 - 13:30   Lunch Break   Assoc. Prof. Michael Raghu National University of Singa     13:30 - 14:10   KL-4   Reconstructing the stem cell microenvironment by delegation – the liquid and the solid way   Assoc. Prof. Michael Raghu National University of Singa     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   Phyanuch Thitiwuthikiat Chulalongkorn University     14:45 - 15:00   OS7-3   Annulus Fibrosus Tissue Engineering using Cell-Sheet Technology   Yie Lun Chiang National University of Singa     15:00 - 15:15   OS7-4   Myofibroblasts: Pilot gene profile study and Epigenetics   Ariel B. Tan National University of Singa     15:15 - 16:00   Coffee Break & Poster Session   Session 8: Computational Bioengineering Orbar: Ramesh Ramji (National University of Singa Tohoku University   Pavod Alizadehrad Tohoku University     16:00 - 16:15   OS8-1   Blood Flow Analysis in the Left Atrium with/without Atrial Fibrillation   Ryo Koizumi Tohoku University     16:30 - 16:45   OS8-2   Large-scale numerical simulation of blood flow in microvessels   Davod Alizadehrad Tohoku	12:00 - 12:15	OS6-5		
Keynote Lecture IV     Chair: Soneela Ankam (National University of Singapore)       13:30 - 14:10     KL-4     Reconstructing the stem cell microenvironment by delegation – the liquid and the solid way     Assoc. Prof. Michael Raghu National University of Singa       USESSION 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 Chainag National Cheng Kung Unive       14:45 - 15:00     OS7-3     Annulus Fibrosus Tissue Engineering using Cell-Sheet Technology     Eugene Yong-shun See National University of Singa       15:15 - 16:00     Coffee Break & Poster Session     Ariel B. Tan National University of Singa       16:00 - 16:15     OS8-1     Blood Flow Analysis in the Left Atrium with/without Atrial Fibrillation     Roy Koizumi Tohoku University       16:15 - 16:30     OS8-2     Large-scale numerical simulation of blood flow in microvessels     Davod Alizadehrad Tohoku University of Singa       16:50 - 17:05     OS9-4     Plastic Antibodies: Molecularly Imprinted Polymeric Nanoparticles for Recognition of Viruses     Nitanjani Sankarakumar National Un	12:15 - 12:30	OS6-6	Staircase Voltage MOSFET Driver Circuit for Triggered HIFU Treatment	
13:30 - 14:10   KL-4   Reconstructing the stem cell microenvironment by delegation – the liquid and the solid way   Assoc. Prof. Michael Raghu National University of Singa     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   Plyanuch Thitiwuthikiat Challangkom 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 Se National University of Singa     15:00 - 15:15   OS7-4   Myofibroblasts: Pilot gene profile study and Epigenetics   Ariel B. Tan National University of Singa     16:00 - 16:15   OS8-1   Blood Flow Analysis in the Left Atrium with/without Atrial Fibrillation   Roy Koizumi Tohoku University     16:15 - 16:30   OS8-2   Large-scale numerical simulation of blood flow in microvessels   Davod Alizadehrad Tohoku University of Singa     Session 9: Computerical simulation of blood flow in microvessels     Vog Chery     16:15 - 16:30   OS8-2   Large-scale numerical simulation of blood flow in microvessels   Davod Alizadehrad Tohoku University <t< td=""><td>12:30 - 13:30</td><td></td><td>Lunch Break</td><td></td></t<>	12:30 - 13:30		Lunch Break	
13:30 - 14:10   KL-4   Reconstructing the stem cell microenvironment by delegation – the hquid and the solid way   National University of Singa     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 Chinag 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 Singa     15:00 - 15:15   OS7-4   Myofibroblasts: Pilot gene profile study and Epigenetics   Ariel B. Tan National University of Singa     15:15 - 16:00 <i>Coffee Break &amp; Poster Session</i> Session 8: Computational Bioengineering   Chair: Ramesh Ramji (National University of Singaport)     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   OS8-1   Plastic Antibodies: Molecularly Imprinted Polymeric Nanoparticles for Recognition of Viruses   Niranjan		Γ	Keynote Lecture IV Chair: Soneela Ankam (National University of Singap	
14:15 - 14:30OS7-1Assessment of Physical Characterization of Vascular Scaffold from Thai Silk FibroinPiyanuch Thitiwuthikiat Chulalongkom University14:30 - 14:45OS7-2Investigation of the Interaction Between Neuron and Glial Cell in MicroenvironmentYi-Lun Chiang National Cheng Kung University14:30 - 14:45OS7-3Annulus Fibrosus Tissue Engineering using Cell-Sheet TechnologyEugene Yong-shun See National University of Singa15:00 - 15:15OS7-4Myofibroblasts: Pilot gene profile study and EpigeneticsAriel B. Tan National University of Singa15:15 - 16:00Coffee Break & Poster SessionCoffee Break & Poster SessionVession &: Conputational Bioengineering Chair: Ramesh Ramji (National University of Singa Davod Alizadehrad Tohoku University16:10 - 16:15OS8-1Blood Flow Analysis in the Left Atrium with/without Atrial FibrillationRyo Koizumi Tohoku University16:30 - 16:45OS8-3Cellular Consequences of a Genetic Defect in the Gastrointestinal TractYong Cheng Poh National University of Singa16:50 - 17:05OS9-1Plastic Antibodies: Molecularly Imprinted Polymeric Nanoparticles for Recognition of VirusesNiraijani Sankarakumar National University of Singa17:05 - 17:20OS9-2Regulatory mechanism of the level of BRCA1/BARD1 expression following DNA damageEmiko Maseki Tohoku University17:05 - 17:20OS9-3Fast and high-quality imaging of thick biological specimens using focal modulation microscopy withShau Poh Chong	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
14:15 - 14:30OS/-1Assessment of Physical Characterization of Vascular Scattfold from That Silk FibrionChulalongkorn University14:30 - 14:45OS7-2Investigation of the Interaction Between Neuron and Glial Cell in MicroenvironmentYi-Lun Chiang National Cheng Kung University14:45 - 15:00OS7-3Annulus Fibrosus Tissue Engineering using Cell-Sheet TechnologyEugene Yong-shun See National University of Singa15:00 - 15:15OS7-4Myofibroblasts: Pilot gene profile study and EpigeneticsAricel B. Tan National University of Singa15:15 - 16:00Coffee Break & Poster SessionSession 8: Computational Bioengineering Tohoku University16:00 - 16:15OS8-1Blood Flow Analysis in the Left Atrium with/without Atrial FibrillationRyo Koizumi Tohoku University16:15 - 16:30OS8-2Large-scale numerical simulation of blood flow in microvesselsDavod Alizadehrad Tohoku University16:30 - 16:45OS8-3Cellular Consequences of a Genetic Defect in the Gastrointestinal TractYong Cheng Poh National University of Singa16:50 - 17:05OS9-1Plastic Antibodies: Molecularly Imprinted Polymeric Nanoparticles for Recognition of VirusesNiranjani Sankarakumar National University of Singa17:05 - 17:20OS9-2Regulatory mechanism of the level of BRCA1/BARD1 expression following DNA damageEmiko Maseki Tohoku University17:20 - 17:35OS8-3Fast and high-quality imaging of thick biological specimens using focal modulation microscopy withShau Poh Chong			Session 7: Tissue Engineering Chair: Wei-Yin Lin (National Cheng Kung University	')
14:30 - 14:43   OS7-2   Intestigation of the Interaction Between Netition and Onlin Cent in Microenvironment   National Cheng Kung Univer     14:45 - 15:00   OS7-3   Annulus Fibrosus Tissue Engineering using Cell-Sheet Technology   Eugene Yong-shun See National University of Singa     15:00 - 15:15   OS7-4   Myofibroblasts: Pilot gene profile study and Epigenetics   Ariel B. Tan National University of Singa     15:15 - 16:00   Coffee Break & Poster Session   Session 8: Computational Bioengineering   Chair: Ramesh Ramji (National University of Singapore)     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 Singa     Version 9: Others     Version 9: Others     Chair: Takuya Nomata (Tohoku University)     Niranjani Sankarakumar National University of Singa     Tothers     Version 9: Others     Chair: Takuya Nomata (Tohoku University)     16:50 -	14:15 - 14:30	OS7-1	Assessment of Physical Characterization of Vascular Scaffold from Thai Silk Fibroin	Chulalongkorn University
14:45 - 15:00   OS/-3   Annulus Fibrosus Fisue Engineering using Cell-Sheet Technology   National University of Singa     15:00 - 15:15   OS7-4   Myofibroblasts: Pilot gene profile study and Epigenetics   Ariel B. Tan National University of Singa     15:15 - 16:00   Coffee Break & Poster Session   Session 8: Computational Bioengineering   Chair: Ramesh Ramji (National University of Singapore)     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   Vong Cheng Poh National University of Singa     16:50 - 17:05   OS9-1   Plastic Antibodies: Molecularly Imprinted Polymeric Nanoparticles for Recognition of Viruses   Niranjani Sankarakumar National University of Singa     17:05 - 17:20   OS9-2   Regulatory mechanism of the level of BRCA1/BARD1 expression following DNA damage   Emiko Maseki Tohoku University     17:05 - 17:35   OS8-3   Fast and high-quality imaging of thick biological specimens using focal modulation microscopy with   Shau Poh Chong	14:30 - 14:45	OS7-2	Investigation of the Interaction Between Neuron and Glial Cell in Microenvironment	Yi-Lun Chiang National Cheng Kung University
15:00 - 15:15   OS /-4   Myohibroblasts: Pilot gene profile study and Epigenetics   National University of Singa     15:15 - 16:00   Coffee Break & Poster Session   Session 8: Computational Bioengineering   Chair: Ramesh Ramji (National University of Singapore)     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 Singa     16:50 - 17:05   OS9-1   Plastic Antibodies: Molecularly Imprinted Polymeric Nanoparticles for Recognition of Viruses   Niranjani Sankarakumar National University of Singa     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   Shau Poh Chong	14:45 - 15:00	OS7-3	Annulus Fibrosus Tissue Engineering using Cell-Sheet Technology	Eugene Yong-shun See National University of Singapore
Image: Construction of biological spectrum of the level of BRCA1/BARD1 expression following DNA damage   Niranjani Sankarakumar National University     16:20 - 17:25   OS9-2   Regulatory mechanism of the level of BRCA1/BARD1 expression following DNA damage   Niranjani Sankarakumar National University	15:00 - 15:15	OS7-4	Myofibroblasts: Pilot gene profile study and Epigenetics	Ariel B. Tan National University of Singapore
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16:00 - 16:15   OS8-1   Blood Plow Analysis in the Left Atrium with/without Atrial Plorination   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 Singa     District 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 Singa     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   Shau Poh Chong			Session 8: Computational Bioengineering Chair: Ramesh Ramji (National University of Singapo	ore)
16:15 - 16:30   OS8-2   Large-scale numerical simulation of blood flow in microvessels   Tohoku University     16:30 - 16:45   OS8-3   Cellular Consequences of a Genetic Defect in the Gastrointestinal Tract   Yong Cheng Poh National University of Singa     05:0 - 17:05   OS9-1   Plastic Antibodies: Molecularly Imprinted Polymeric Nanoparticles for Recognition of Viruses   Niranjani Sankarakumar National University of Singa     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   Shau Poh Chong	16:00 - 16:15	OS8-1	Blood Flow Analysis in the Left Atrium with/without Atrial Fibrillation	-
16:50 - 16:45   OS8-3   Centular Consequences of a Genetic Defect in the Gastrointestinal Tract   National University of Singa <i>Session 9: Others</i> 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 Singa         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       Shau Poh Chong	16:15 - 16:30	OS8-2	Large-scale numerical simulation of blood flow in microvessels	
16:50 - 17:05   OS9-1   Plastic Antibodies: Molecularly Imprinted Polymeric Nanoparticles for Recognition of Viruses   Niranjani Sankarakumar National University of Singa     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   Shau Poh Chong	16:30 - 16:45	OS8-3	Cellular Consequences of a Genetic Defect in the Gastrointestinal Tract	Yong Cheng Poh National University of Singapore
16:50 - 17:05   OS9-1   Plastic Antibodies: Molecularly Imprinted Polymeric Nanoparticles for Recognition of Viruses   National University of Singa     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   Shau Poh Chong			Session 9: Others Chair: Takuya Nomata (Tohoku University)	
17:05 - 17:20   OS9-2   Regulatory mechanism of the level of BRCA1/BARD1 expression following DNA damage   Tohoku University     17:00 - 17:35   OS9-3   Fast and high-quality imaging of thick biological specimens using focal modulation microscopy with   Shau Poh Chong	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	
	17:20 - 17:35	OS9-3		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 Singa	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	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
P-7	Preliminary study on the development of a new artificial papillary muscle (PM) using shape memory alloy (SMA)	Tohoku University Hisashi Hashimoto
P-8	fibres Development of Fine Sized Cu Through-Si Via Technology for Three-Dimensional Stacked Retinal Prosthesis Chip	Tohoku University Yuki Ohara
P-9	Sleep Behavioral Analysis System	Tohoku University Jetsada Arnin
P-10	EEG-based Neurofeedback Device	Mahidol University Supassorn Rodrak
		Mahidol University Tomohiko Nakagawa
P-11	Biodistribution of Novel Silica-Coated Nano-Particles for Fluorescence and CT Imaging in Tumor-Bearing Mice	Tohoku University Takashi Shishitani
P-12	Sound Speed Measurement of Thermally Denatured Biological Tissue	Tohoku University
P-13	High Resolution Ultrasound Imaging of Human Skin and its Relation to Biomechanical Properties	Kazutoshi Kumagai Tohoku University
P-14	Early Detection of Cervical Precancer In Vivo using NIR Raman Spectroscopy and Partial Least Square Discriminant Analysis	Shiyamala Duraipandian National University of Singapore
P-15	Styrylbenzoxazole Derivatives for In Vivo Imaging of Alpha-synuclein Neuropathology	Ryuichi Harada Tohoku University
P-16	3D Reconstruction of High Intensity Focused Ultrasound Pressure Field from Optical Measurement	Yuta Shimazaki 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(e-caprolactone) and Poly(D,L-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
P-35	Induction of stem cell differentiation using topographical cues	Tohoku University Soneela Ankam
	- 1 - 1	National University of Singapore