Time	Index	Tuesday Dec 9, 2008 Oral Presentations Title of presentation	Speaker
Time	Inuex	Welcome address	GPBE GSC
		Opening Remarks	Takami Yamaguchi,
8:30 -	8.45	Opening Remarks	Tohoku University
8:45 -9:30	S1-KN	Keynote- The Development of Confocal Microscopy	Colin Sheppard, NUS
0.10 3.00	S1-O1	Reproduction of Pulse Waveform Measurement using One-	Tsutomu Nakanishi,
9:30-10:30		dimensional Mathematical Model for Validation of Pulse Diagnosis	Tohoku University
7.50 10.50	S1-O2	Measurement of Friction Characteristics of Neutrophils on MPC	Takashi Umimoto,
		Polymer with the Inclined Centrifuge Microscope	Tohoku University
	S1-O3	Plasmon Resonance: Contrast enhancement Mechanism for Optical	Kalpesh Mehta, NUS
	51 03	Coherence Tomography	raipesii Weita, 1005
10:30-	11:00	Tea break/ Poster viewing	
	S2-I	Invited- Fully Implantable Retinal Prosthesis with 3-Dimensionally	Tetsu Tanaka, Tohoku
11:00-11:20		Stacked LSI	University
	S2-O1	3D-Soluble Environments in a Microfluidic Channel based Cell-	Zhang Chi, IBN,
11:20-12:20		Culture for Drug Testing	A*STAR
	S2-O2	Anisotropic Hybrid Blood Vessel Model using Poly (Vinyl Alcohol)	Lei Liu, Tohoku
		Hydro Gel and Mesh Material	University
	S2-O3	Back and Forth Sample Contact Strategy via	Chaitanya Kantak , NUS
		Magnetic Planar Peristaltic Pump (MP3) for Enhanced DNA	
		Extraction	
12:20-1	T	Lunch break/Poster viewing	
	S3-KN	Keynote- Bionic Design of Tube Formation in the Integrated	Kazuo Tanishita, Keio
13:20-14:05		Cellular Structure	University
	S3-I	Invited- Functional Systems Biology and Engineering: a process-	Hanry Yu, NUS
14:05-14:30	~~ ~ .	centered approach to the solutions for liver diseases	
	S3-O1	Development of Newly Designed Bioassay System towards Single	Kiichiroh Mori, Tohoku
14:30-15:30	62.02	Cell Analysis	University
	S3-O2	Development of Poly (Vinyl Alcohol) Gel with in vivo Acoustic Properties	Osamu Yamashita, Tohoku University
15:30-	16:00	Tea break/ Poster viewing	Tolloku Olliversity
13.30-	S4-KN	Keynote- Computational Biomechanical Studies on Arterial	Takami Yamaguchi,
	D-IXIN	Diseases at the Micro and Macro Levels	Tohoku University
16:00-16:45		Discuses at the filtero and filterons	Tonona Oniversity
10.00 10.43	S4-O1	Formulation of Linearized Error Dynamics Equation of Measurement	Kentaro Imagawa,
16:45-17:45		Integrated Simulation	Tohoku University
	S4-O2	Effect of Vertical Distribution of Shear Stress Generated by Flow or	Manabu Saito, Tohoku
		Centrifugal Force on Orientation of Cultured Endothelial Cell	University
	S4-O3	Solute Concentration Gradients in a Hydrogel-assisted Gradient	Cherng-wen Tan, NUS
	2.05	Generator	
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Reception at Singapore flyers for all presenters, judges, keynote speakers, invited speakers, and onwards organizers hosted by GCOE NanoBME program (Transport from NUS will be arranged)

		Tuesday Dec 9, 2008 Poster Presentations	,
Time	Index	Title of Poster	Presenter
	P1	Anatomical Networks in the Human Brain Revealed by Regional	Kai Wu, Tohoku
		Gray Matter Volume with Japanese Brain MRI Database	University
	P2	CT Liver Tumor Segmentation	Li Bingnan, NUS
	Р3	Super-resolution along extended depth of focus with binary-phase filters	Liu Linbo, NUS
	P4	Cortical Hemispheric Surface Template Generation Using Multi- Manifold Diffeomorphic Metric Mapping	Zhong Jidan, NUS
	P5	Silica-coated Fluorescent Nano-particles by Sentinel Lymph Node Biopsy and Mapping Diagnostic	Liman Cong, Tohoku University
	P6	The study of interaction of hypericin and its pharmaceutical preparation by fluorescence techniques	Liu Jun, NUS
	P7	Numerical Simulation of Inspiratory and Expiratory Pulmonary Airflow using a Subject-specific Model	Takahito Miki, Tohoku University
	P8	The Electrospinning of Poly (ε-caprolactone)/Collagen (PCL/Col) Fibers For Improved Cellular Infiltration	Andrew K. Ekaputra, NUS
8:45 - 17:00	P9	PHBV Microspheres as Tissue Engineering Scaffold for Neurons	Chen Wenhui, NUS
	P10	The Evaluation of Hydrogels for Cartilage Repair	Ho Saey Tuan, NUS
	P11	Osteoblastic behaviour on nano-HA coated electrospun PLGA and PLGA/Col nanofibers	Michelle Ngiam, NUS
	P12	Hepatocyte Regeneration as a Therapy for Liver Fibrosis	Narmada B. C., NUS
	P13	Collagen-based Fibers for Stem Cell Encapsulation	Yow Soh Zeom, NUS
	P14	A Novel Hemodynamic Index for the Initiation of Cerebral Aneurysms: Focusing on Temporal Variation of Spatial Wall Shear	Yuji Shimogonya, Tohoku University
		Stress Gradient	
	P15	Vertical Electrical Stimulation to C2C12 Myotubes	Takeshi Ishibashi, Tohoku University
	P16	Behavior of a Red Blood Cell in a Simple Shear Flow Simulated by a Boundary Element Method	Toshihiro Omori, Tohoku University
	P17	Development of Si Neural Probe with Microfluidic Channel Fabricated by Using Wafer Direct Bonding Technique	Soichiro Kanno, Tohoku University
	P18	Transglutaminase as a Biological Tissue Adhesive	Tan Bing-Shi Ariel, NUS

		Wednesday Dec 10,2008 Oral Presentations	
Time	Index	Title of presentation	Speaker
8:30 -		Opening announcements	Organizers
8:45 -9:30	S5-KN	Keynote- Growth Factor Signaling in Vertebrate Developmental	Mike Jones, IMB
9:30-10:30	S5-O1	New Strategy for Rescue of Pendrin Mutants Causing Pendred Syndrome	Shuhei Okuyama, Tohoku University
9.30-10.30	S5-O2	Macromolecular Crowding enhances Microenvironment For the Adipogenesis Of Mesenchymal Stem Cells	Felicia Celeste Loe, NUS
	S5-O3	Development of an in vitro hepatotoxicity testing platform	Abhishek Ananthanarayanan, NUS
10:30-	11:00	Tea break/ Poster viewing	
11:00-11:20	S6-I	Invited- Beyond Transcription: Translational Control in Embryonic Stem Cells	Prabha Sampath, IMB
11:20-12:20	S6-O1	Docetaxel loaded PLA-TPGS/ F68 blend nanoparticles for controlled release & overcoming drug resistance	Deepak Choudhury, NUS
	S6-O2	Cellulosic Scaffold for 3D Hepatocyte Culture	Bramasta Nugraha, NUS
	S6-O3	Layer-by-layer (Lbl) technology for the sustained drug release applications	Shareef M. Ismail, NUS
12:20-1	13:20	Lunch break/Poster viewing	
13:20-14:05	S7-KN	Keynote- Revitalization of Japan's Medical Equipment Industry	Minoru Sakairi, Hitachi Ltd.
	S7-I	Invited- Fluid Shear Stress Suppresses Transendothelial	Naoya Sakamoto, Tohoku
14:05-14:30		Migration of Leukocytes in Coculture Model	University
14:30-15:30	S7-O1	Cochlear nucleus Stimulation by means of the Multi-channel Surface Microelectrodes	Kiyoshi Oda, Tohoku University
	S7-O2	Fabrication of Multichannel Neural Microelectrodes with Microfluidic Channels Based on Wafer Bonding Technology	Risato Kobayashi, Tohoku University
15:30-	16:00	Tea break/ Poster viewing	
16:00-16:45	S8-KN	Keynote- Shift-variant optics for 3D imaging	George Barbastathis, MIT
16:45-17:25	S8-O1	Quantitative imaging with differential interference contrast (DIC) microscope: role of coherence of illumination	Shalin Mehta, NUS
	S8-O2	Application of Random Rough Nonspherical Particles Mode in Light Scattering in Biological Cell	Si Ke, NUS
		Prize distribution	Takami Yamaguchi, Tohoku University/ Michael Raghunath, NUS
17:30-18:00		Valedictory	Yuji Shimogonya, Tohoku University / Michael Raghunath, NUS

Time	Index	Wednesday Dec 10,2008 Poster Presentations Posters	Presenter
	P19	Mutation-induced Enhancement of the Activity of Prestin, the Motor Protein in the Inner Ear	Shun Kumano, Tohoku University
	P20	Study of Retinal Prosthesis with Three-Dimensionally Stacked LSI	Keigo Sato, Tohoku
	P21	Material Evaluation of the Flexible Cable and Stimulus Electrodes	University Yoshiyuki Kaiho, Tohoku
		for Retinal Prosthesis System	University
	P22	Study of Electromagnetic Inductor for Power Delivery to Three- Dimensional Retinal Prosthesis System	WooCheol Jeong, Tohoku University
	P23	The Scar-in-a-Jar: Studying Antifibrotic Lead Compounds from the Epigenetic to the Extracellular Level in a Single Well	Clarice Chen, NUS
	P24	Molecular Insight of Lactate Metabolism in CHO Cell Culture	Lim U-Ming, NUS
	P25	Dual Oscillator Mechanism in the Circadian Clock System	Mark Chong, NUS
	P26	The Effect of Macromolecular Crowding on the Distribution & Mobility of Cell Membrane Receptors	Rafi Rashid, NUS
8:45 - 17:00	P27	A Bacteriorhodopsin/ATP Synthase Liposome System for Light- Driven ATP Production	Tan Wee Jin, NUS
	P28	Maintenance of Hepatocyte Polarity in Synthetic Sandwich Culture	Xia Lei, NUS
	P29	Porous Polymer Films for Bead-based Microarray Application	Cheng Jinting, NUS
	P30	Rapid Induction of Differentiation-like Morphology in Neural Stem Cells	Viknish K. Kutty, NUS
	P31	In Vitro Viscoelastic Test Apparatus for Cytoskeletal Bundles	Tsubasa Matsui, Tohoku University
	P32	Morphological Changes in Vascular Endothelial Cells Induced by Tension Transmitted through Intercellular Junctions	Yosuke Ueki, Tohoku University
	P33	Fabrication of hemispherical structures with double exposure photolithography	Lim Chee Tiong, NUS
	P34	Magnetically guided distribution of non-viral gene transfer vectors in the central nervous system	Yang Jingye, NUS
	P35	A Novel Biomimetic Approach to Nanostructured Biomaterials and Their Applications in Cellular and Tissue Engineering	Yu Haidong, NUS