

International Workshop HITS 2009

Frontiers of Biomeasurement and Bionanotechnology toward Biomedical Engineering JSPS International Training Program (ITP), Eco-Bio Technology Symposium

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February 5th and 6th, 2009 Suzukake Hall Tokyo Institute of Technology

February 5 th (Thu)		
	10:00-10:10	Opening:
		Dr. Hisakazu Mihara (Tokyo Institute of Technology)
		[Biomeasurement Technology] Chair: Hisakazu Mihara
	10:10-10:30	Dr. Eun Kyu Lee (Hanyang University)
		"Cell-Based Imaging as a Tool for Evaluation of Apoptosis Kinetics and Nanoparticle Cytotoxity"
	10:30-10:50	Dr. Tony Cass (Imperial College London)
		"Odorant Binding Protein: A Versatile Sensing Molecule Revisited"
	10:50-11:10	Dr. Toshihisa Ishikawa (Tokyo Institute of Technology)
		"Genetic Polymorphisms in Human ABC Transporters: Emerging New Technologies
		for Pharmacogenomics Research"
		[Biomarker and Biomeasurement] Chair: Jin-Goo Park
	11:30-11:50	Dr. Ahmed Busnania (Northeastern University)
		"Nanoparticle-Based Multi-Biomarker Nano-Biosensor"
	11:50-12:10	Dr.Yasuto Akiyama (Shizuoka Cancer Center Research Institute)
		"Single Cell-Based Characterization of Cancer-Specific Immunobiomarker Genes"
	12:10-12:30	Dr. Jaebum Choo (Hanyang University)
		"Fast and Sensitive Immunoassay of Lung Cancer Markers using Bio-Functionalized Metal Nano Probes"
	12:30-12:40	Free Discussion
		[Bioimaging and Biosenisng] Chair: Eiry Kobatake
	14:00-14:20	Dr. Makio Tokunaga (Tokyo Institute of Technology)
		"Single Molecule Imaging in Living Cells and Force Detection of Molecular Interactions"
	14:20-14:40	Dr. Takashi Nagaoka (Shizuoka Cancer Center Research Institute)
		"Automated Melanoma Recognition using Hyperspectral Image Analysis"
	14:40-15:00	Dr. Joshua B. Edel (Imperial College London)
	1	"Probing Single Molecules on the Nanoscale"
	15:00-15:20	Dr. Bong Yong Yoo (Hanyang University)
		"Electrochemically Fabricated Ferromagnetic Nano-Gap Electrodes as Sensing Device"
	15 40 16 00	[Protein Science and Biomeasurement] Chair: Dany O'Hare
	15:40-16:00	Dr. Tim Albrecht (Imperial College London) "Electrochemical Change Transport on the Nanovale"
	16.00 16:20	"Electrochemical Charge Transport on the Nanoscale"
	16:00-16:20	Dr. Kohei Tsumoto (The University of Tokyo) "Arriving on a Versatile Descent for Handling Proteine"
	16:20-16:40	"Arginine as a Versatile Reagent for Handling Proteins" Dr. Seung Yong Hwang (Hanyang University)
	10.20-10.40	"Species Identification using DNA Microarray"
	16:40-17:00	Dr. Akihiko Kondo(Kobe University)
	10.40-17.00	"Construction of a Novel Detection System for Protein-Protein Interaction using Yeast"
	17:00-17:20	Free Discussion
	17.00 17.20	
February 6 th (Fri)		
[Bionano-Fabrication Technology] Chair: Tony Cass		
	10:00-10:20	Dr. Andrew de Mello (Imperial College London)
		"Droplets & Microfluidics: Novel Tools in Nanomaterial Synthesis"
	10:20-10:40	Dr. Jin-Goo Park (Hanyang University)
		"Fabrication of Nano Si Tips and Their Application to Nano-Array Chips"
	10:40-11:00	Dr. Jonathan Heddle (Tokyo Institute of Technology)
		"Engineering of Protein Rings and Associated Proteins for Use in Bionanotechnology and Therapeutics"
	11:00-11:20	Dr. Makoto Nakamura (Toyama University)
		"Micro- to Macro-Scaled 3D Biofabrication by Inkjet 3D Bioprinter"
		[Biomedical and Biophysical Engineering] Chair: Eun Kyu Lee
	11:40-12:00	Dr. Yong Woo Cho (Hanyang University)
		"pH-Sensitive Polymer Nanoparticles for Intracytoplasmic Drug Delivery"
	12:00-12:20	Dr. Minoru Sakurai (Tokyo Institute of Technology)
		"Physicochemical Study on the Mechanism of Anhydrobiosis in the Sleeping Chironomid,
		Polypedium vanderplanki"
	12:20-12:40	Dr. Dany O'Hare (Imperial College London)
	10 10 10 00	"Microfabricated Electrochemical Devices: New Sensors and New Applications"
	12:40-13:00	Free Discussion
	13:00-13:10	Closing:
		Dr. Hisakazu Mihara (Tokyo Institute of Technology), Dr. Eun Kyu Lee (Hanyang University)