8:00- 9:00 **REGISTRATION**

Wednesday, March 12, 2014

9:00- 9:10 WELCOME ADDRESS

Professor Ryoichi NAGATOMI, Graduate School of Biomedical Engineering, Tohoku University
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Key Note Lecture I

Chair: Jaw-Lin Wang (National Taiwan University)

9:10-	9:50	Prof. Ryoichi Nagatomi	Tohoku University	
9:50-	10:00	COFFEE BREAK		
Biom	echar	nics I		Fong-Chin Su (National Cheng Kung Univerisity)
10:00-	10:15	Tien-Han Li	National Taiwan University	Effects of Lamina Expansion on Cervical Stability and Spinal Nerve Tension after Open-door Laminoplasty
10:15-	10:30	Shuo-Heng Chen	National Taiwan University	Loss of Cervical Deep Muscle Function Is Associated with An Increase in Cervical Kyphosis after Laminoplasty Surgery: In-Vitro Experimental Spine Model with Muscle Function Simulation
10:30-	10:45	Su-Ya Lee	National Cheng Kung University	Study of the Isokinetic Performance of the Wrist Extensor Muscles at Different Wrist Deviations
10:45-	11:00	Po-Tsun Chen	National Cheng Kung University	The Adjustment of Digit Force during Five-Digit Grasping in Patients with Carpal Tunnel Syndrome
11:00-	11:10	COFFEE BREAK		
Biom	echar	nics II	Chair:	Li-Chieh Kuo (National Cheng Kung Univerisity)
11:10-	11:25	Li-Yu Lin	National Taiwan University	The effects of Glycation and Enzymatic Digestion on Rheological Properties of Intervertebral Disc
11:25-	11:40	Yun-Chen Chiu	National Taiwan University	Estimation of altered dynamic mechanical properties of the intervertebral disc after injection-induced glycation and enzymatic digestion
11:40-	11:55	Hsiao-Feng Chieh	National Cheng Kung University	The impact of joint configuration on kinetics of the thumb trapeziometacarpal joint during lateral pinch
11:55-	12:10	Chien-Ju Lin	National Cheng Kung University	The in vivo analysis of joint contact pattern of the thumb trapeziometacarpal joint during lateral pinch
		LUNCH		
	edica neerin	I Devices/Neuro	Chair:	Ali Hasnain (National University of Singapore)
13:20-	13:35	Tomo Kinoshita	Tohoku University	Radiofrequency ablation of the adrenal gland: in vivo and ex vivo experiments with "bipolar" ablation system
13:35-	13:50	He Shuai	National University of Singapore	Optimization of Gold Nanostars for Probing Molecules by Surface Enhanced Raman Spectroscopy
13:50-	14:05	Koushik Kumar Nundy	National University of Singapore	Wearable Continuous Blood Pressure Monitoring and Measurement
14:05-	14:20	Aishwarya Bandla	National University of Singapore	A Multimodal Imaging Study of Hyperacute Stroke Neurorestorative Functions by Peri-Infarct Activations
		COFFEE BREAK		
Medi	cal Im	aging	Chair:	Yu-Chun Hsu (National Taiwan University)
14:30-	14:45	Nozomi Satani	Tohoku University	Non-contrast-enhanced MR adrenal venography for adrenal venous sampling: Comparison with CT angiography A Position Emission romographic (PET) Study to Consider the
14:45-	15:00	Akie Inami	Tohoku University	Working Mechanism of an Alternative Therapy on Neck Pain
15:00-	15:15	Rin Matsuda	Tohoku University	Effects of radiochemotherapy on cerebral metabolic change in esophagus cancer patients.
15:15-		Teppei Yamaki	Tohoku University	Study of diagnosis of lymph node metastasis by Micro-CT
		COFFEE BREAK		
Othe	rs		Chair:	Wen-Kai Chou (National Taiwan University)
15:40-	15:55	Daisuke Matsuki	Tohoku University	Study of drug delivery to secondary lymph nodes via sentinel lymph nodes
15:55-	16:10	Chia-Ching, Lin	National Taiwan University	Prognostic Values of Cervical Spine Morphology and Intersegment Range of Motion in Predicting Post-surgical Outcome for Cervical Spondylotic Myelopathy
16:10-	16:25	Zong-Xing, Chen	National Taiwan University	Patient with Cervical Spondylotic Myelopathy undergone laminoplasty demonstrated slower recovery in their range of motion compare to those with anterior cervical discectomy and fusion
16:25-	16:40	Chia-Hao Hsieh	National Taiwan University	Development of An Image-guided Navigation System for Hydrocephalus Ventricular Shunt Placement Procedure
19:00-	21:00	CONFERENCE BANQU	JET	

	Thursday, March 13, 2014							
Key Note Lecture II Chair: Yoshifumi Saijo (Tohoku University)								
9:00-	9:40	Prof. Pai-Chi Li	National Taiwan University					
9:40-	9:50	COFFEE BREAK	·					
Medical Ultrasound I			Chair	: Naoki Takeishi (Tohoku University)				
9:50-	10:05	Genta Masuno	Tohoku University	High Frame-Rate Estimation of Two-Dimensional Blood Flow Vector by Bidirectional Doppler Ultrasound with Parallel Beamforming				
10:05-	10:20	Yosuke Komatsu	Tohoku University	Basic study on "Sonosytometry"				
10:20-	10:35	Shigeki Kato	Tohoku University	Inhibition of tumor growth in lymph nodes by lymphatic administration of drugs and nano/micro bubbles with ultrasound exposure				
10:35-	10:50	Jun Yasuda	Tohoku University	Effects of Rose Bengal on Cavitation Inception in Gel Phantom Investigated by High-Speed Observation				
10:50-	11:00	COFFEE BREAK						
Medi	cal Ul	trasound II	Chair	: Ryo Nagaoka (Tohoku University)				
	11:15	Joe Shikama	Tohoku University	Development of Ultra-high Frequency Ultrasound microscope for imaging of a single cell				
11:15-	11:30	Mika Sato	Tohoku University	Development of Optical Resolution Photoacoustic Microscopy				
11:30-	11:45	Yukihiro Naganuma	Tohoku University	Ultrasound microscopic imaging of human caries dentin				
11:45-	12:00	COFFEE BREAK						
12:00-	12:00- 12:30 AWARD PRESENTATION & ADJOURNMENT							

Professor Takami YAMAGUCHI,

Graduate School of Biomedical Engineering, Tohoku University

12:30- 13:30 LUNCH

13:30-LABORATORY TOUR