

WORKSHOP ON BIONICS

Organized by Bionics Innovation Center (Budapest)

Venue: Pázmány Péter Catholic University, Faculty of Information Technology and Bionics, Budapest 1083, Práter u. 50/a.

Date: Budapest, 21-23 October, 2014

21. October, 2014	
5.00-6.30 pm	Opening Remarks
5.00-5.15 pm	1. Sz. Szuromi: Welcome and Introductory Speech
5.15-5.30 pm	2. P. Kilpatrick
5.30-6.30 pm	Get together
22. October, 2014	
Scientific Program	
	Session I: University of Notre Dame, South Bend, USA
9.00-9.40 am	1. P. Kilpatrick – B. Bilgicer: Multicomponent Molecular Design for Therapeutic Applications
9.40-10.10 am	2. H.C. Chang: A New Turn-Key Point-of-Care diagnostic platform for low-concentration biomarkers
10.10-10.40 am	3. G. Niebur – R. Roeder: Overview of biomechanics and biomaterials research
10.40-11.00 am	Coffe break
	Session II: Bionics Innovation Center, Budapest
11.00-11.20 am	1. P. Mátyus: Bionics Innovation Center: Where are we and where are we going?
New diagnostic tools for microbiology: Challenges to development real-time methods to identify pathogens in food and human	
11.20-11.40 am	2. A. Maráz: Microbiological food safety
11.40 am-12.10 pm	3. K. Iván-A. Maráz: Development plans of a LOC device for food safety testing
12.10-12.40 pm	4. S. Valkai - A. Dér - D. Szabó: Microbiological application II.
12.40-2.00 pm	Lunch
Biomarkers in therapy and drug discovery	
2.00-2.25 pm	5. B. Vásárhelyi - G. Karvaly: Novel approaches to the evaluation of biomarkers to establish individualized therapies. From methodology to clinical application

2.25-2.45 pm	6. A. Patócs - K. Rácz: Genomics biomarkers in oncology: The challenge of developing and validating novel biomarkers
	Session III: Semmelweis University, Orthopedic Department
2.45-3.00 pm	1. G. Skaliczki: Serum albumin coating of human bone allografts enhances bone healing in a nonunion model.
3.00-3.15 pm	2. Zs. Lacza: Bone engineering with serum strategies
3.15-3.45 pm	Coffe break
	Session IV: Partners of Bionics Innovation Center
3.45-4.15 pm	B. Szabó: Point of Care Testing and LoC technology in the clinical diagnostics, 77 Elektronika Kft
4.15-4.45 pm	G. Németh - S. Hóbor: Multimodality preclinical imaging solutions (PET, SPECT, MRI, CT), Mediso Ltd
	Session V: Semmelweis University, Heart and Vascular Center
4.45-5.00 pm	Cs. Celeng: FFR-CT: Present and future
5.00-5.15 pm	M. Kolossváry: Inheritance of coronary artery geometry
5.15-5.30 pm	Coffe break
	Session VI: Jedlik Laboratory of Pázmány Péter Catholic University
5.30-5.45 pm	M. Radványi - K. Karacs - A. Stubendek - A. Horváth: Scene decomposition and interpretation in high level vision – algorithmization in visual understanding
5.45-6.00 pm	Z. Gáspári: Protein dynamics toward to understanding synaptic transmission
6.00-6.15 pm	M. Gyöngy et al.: Ultrasound for skin cancer diagnosis
6.15-6.30 pm	P. Szolgay et al.: Tactile sensors-tactile sensing
6.30-6.45 pm	N. Sárkány et al.: A multichannel biosignal measuring system for rehabilitation purposes
6.45-7.00 pm	S. Földi - F. Ziegler - Gy. Cserey: Computer aided Pulse diagnostic
23. October, 2014	
	Laboratory Presentations and demonstrations. Pázmány Péter Catholic University, FITB