

Monday, November 7, 2016

08:00 - 09:00	Registration	
Session M-1		Chair: Jonathan West
09:00 - 09:05	Opening and Welcome	
09:05 - 09:45	Invited Keynote Lecture: Christophe Vieu, INSA Toulouse, FR <i>Investigation of cell mechanics using Nanodevices and Nano-instruments: some examples</i>	p.1
09:45 - 10:05	Trung S.H. Tran, University of Lund, SE <i>Sorting breast cancer cells based on deformability</i>	p.3
10:05 - 10:25	Vahid Hosseini, ETH Zurich, CH <i>Stretchable Silver Nanowire Microelectrodes Integrated to Microfluidic Device for Combinatorial Cell Stimulations</i>	p.5
Coffee break		
Session M-2		Chair: Philippe Renaud
11:00 - 11:20	Karl Adolfsson, University of Lund, SE <i>Fluorescent heterostructure nanowires for biological applications</i>	p.7
11:20 - 11:40	Mitesh L. Rathod, Seoul National University, KR <i>Hybrid polymer based microfluidic platform for studying endothelial cell biology</i>	p.9
11:40 - 12:20	Poster snapshots, session A1 <i>15 snapshot presentations 2 min./poster</i>	
Lunch in the hotel (included in the registration)		
Session M-3		Chair: Séverine Le Gac
14:00 - 14:30	Invited: Natalie Picollet-D'hahan, CEA Grenoble, FR <i>From bioinspired 3D pluricellular architectures to prostate-on-a-chip</i>	p.11
14:30 - 14:50	Michal Chudy, Warsaw University of Technology, PL <i>Analysis of the efficiency of photodynamic therapy using a microfluidic Lab-on-a-Chip system for 3D spheroid culture</i>	p.13
14:50 - 15:10	Marianne Elias, LTM-CNRS, FR <i>Structural connectivity patterning of neural networks with microfluidics neuro-engineering</i>	p.15
Coffee break		
Session M-4		Chair: Jonas Tegenfeldt
16:00 - 16:30	Invited: Margarita Staykova, Durham University, UK <i>Lipid membranes on stretchable substrates – biological insights and applications</i>	p.17
16:30 - 17:10	Poster snapshots, session A2 <i>15 snapshot presentations 2 min./poster</i>	
17:10 - 18:30	Poster A Session in the poster area / Exhibition	(+ Sci committee meeting at 18h)
19:30	Gala Dinner at Hotel Eden Palace	

Tuesday, November 8 2016

Session T-1		Chair: Severine Le Gac
09:00 - 09:40	Invited Keynote Lecture: Jurriaan Huskens , University of Twente, NL <i>Multivalent Interactions: From Molecular Design to Biological Function</i>	p.19
9:40 - 10:00	Juliano Bertozzi Silva , University of Sheffield, UK <i>Tests of factors that influence bacterial synthesis of AuNPs: From reaction conditions to gene products</i>	p.21
10:00 - 10:20	Periklis Pantazis , ETH Zurich, CH <i>SHG nanoprobes: Advancing harmonic imaging in biology</i>	p.23
Coffee break		
Session T-2		Chair: Jonas Tegenfeldt
11:00 - 11:30	Invited: Walter Reisner , McGill University, CA <i>Strongly Non-equilibrium Dynamics of Nanochannel Confined DNA</i>	p.25
11:30 - 11:50	Jean Cacheux , University of Toulouse, FR <i>Fast single-nucleotide polymorphism (SNP) discrimination using a fluorescence-based nanofluidic platform</i>	p.27
11:50 - 12:10	Margherita Bassu , Max Planck Institut, DE <i>Scaling Up Nanofluidic Throughput With Microfluidic-Integrated Vertical Nanoslit Arrays</i>	p.29
12:10 - 12:50	Poster Session B1 + Industry talks <i>10 snapshot presentations 2 min./poster</i>	
Lunch in the hotel (included in the registration)		
Session T-3		Chair: Jonathan West
14:00 - 14:30	Invited: Huidan Zhang , Harvard University, US <i>Looking for major villains in cancers using high-throughput digital drop microfluidics</i>	p.31
14:30 - 14:50	Benoît Drogue , CNRS, FR <i>Microfluidic single-cell encapsulation as a new perspective for genome sequencing</i>	p.33
14:50 - 15:10	Iago Pereiro , Institut Curie, FR <i>Microfluidic extraction of circulating tumor DNA for the sensitive detection and quantification of rare mutations</i>	p.35
Coffee break		
Session T-4		Chair: Philippe Renaud
15:40 - 16:10	Invited keynote lecture: Martin Fischlechner , University of Southampton, UK <i>Open Hard- and Software Based Microfluidic Workstations</i>	p.37
16:10 - 16:50	Poster Session B2 <i>14 snapshot presentations 2 min./poster</i>	
Coffee break		
17:00 - 19:00	Poster B Session in the poster area / Exhibition Reception / drinks	

Wednesday, November 9 2016

Session W-1		Chair: Junghoon Lee
09:00 - 09:30	Invited: Wouter van der Wijngaart , KTH Royal Institute of Technology, SE <i>OSTEMers provide new opportunities for micro- and nanostructures</i>	p.39
09:30 - 09:50	Paul Holloway , University of Southampton, UK <i>Scaling inertial microfluidics for hierarchical blood fractionation</i>	p.41
09:50 - 10:10	Aditya Kashyap , IBM Research- Zurich, CH <i>Quantitative adaptive micro-immunohistochemistry for diagnostic pathology</i>	p.43
Coffee break		
Session W-2		Chair: Jonathan West
10:40 - 11:00	Indradumna Banerjee , KTH Royal Institute of Technology, SE <i>Slipdisc platform for smart phone based colorimetric detection of LDH</i>	p.45
11:00 - 11:20	Marco Serra , Institut Curie, FR <i>Integrated magnetic tweezers in a droplet microfluidic lab-on-a-chip for biochemical analysis</i>	p.47
11:20 - 12:00	Plenary Invited Closing Lecture: Andrew J. de Mello , ETH Zurich, CH <i>High-throughput experimentation drop-by-drop</i>	p.49
12:00 - 12:20	Award ceremony for Poster Prizes and closing of the conference	



Thanks for your participation :)