

# CONFERENCE PROGRAM

Monday, November 12th, 2012

08:00 - 09:00 Registration	
09:00 - 10:25 Session I-1	Chair: Philippe Renaud
09:00 - 09:05 <i>Opening and Welcome</i>	
09:05 - 09:45 <b>Invited Plenary Lecture:</b> <i>Sunghoon Kwon, Seoul National University, South Korea</i> <i>Partipetting and liquid microarray for ultraplex bioassay</i>	
09:45 - 10:05 <b>Fredrik Westerlund, Chalmers University of Technology, SE</b> <i>Nanofluidic tools for single DNA molecule analysis</i>	
10:05 - 10:25 <b>Jesper Glückstad, DTU, DK</b> <i>Structure-mediated nano-biophotonics</i>	
10:25-11:00 <i>Coffee break / Exhibition</i>	
11:00-11:50 Session I-2	Chair: Hywel Morgan
11:00 - 11:30 <b>Invited: Valérie Taly, University of Strasbourg, FR</b> <i>Detection of cancer biomarker in microdroplets</i>	
11:30 - 11:50 <b>Rogier Schoenmann, MESA+, University of Twente, NL</b> <i>Deterministic single cell encapsulation and droplet fusion, shrinkage and sorting in single microfluidic device</i>	
11:50 - 12:30 <b>Poster Session A - first part</b>	Chair: Harald van Lintel
<i>Snapshot poster presentations</i>	
12:50 - 14:00 <i>Lunch break / Exhibition</i>	
14:00 - 15:20 Session I-3	Chair: Severine Le Gac
14:00 - 14:40 <b>Invited plenary lecture:</b> <i>Jan Behrends, University of Freiburg, DE</i> <i>Electrophysiological high-resolution sensing with biological nanopores: an inquiry into basic mechanisms governing analyte-pore interaction</i>	
14:40 - 15:00 <b>Etienne Fradet, Polytechnique Paris, FR</b> <i>On demand reaction in microfluidic droplets</i>	
15:00 - 15:20 <b>Sara Coppola, INO, IT</b> <i>A novel platform for biotechnology nanosensor</i>	
15:20-16:00 <i>Coffee break / Exhibition</i>	
16:00 - 16:30 <b>Invited: Madhavi Krishnan, ETHZ, CH</b> <i>A nanoscale Millikan-type experiment to measure size and charge of single objects in fluids</i>	
16:30 - 17:10 <b>Poster Session A - second part</b>	Chair: Philippe Renaud
<i>Snapshot poster presentations</i>	
17:10 - 18:30 <b>Poster Session for all Posters in the poster area / Exhibition</b>	
19:30 <b>Gala Dinner at Hotel Eden Palace</b>	

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<b>9:00 - 10:20 Session II-1</b>		<b>Chair: Charles Baroud</b>
<b>09:00 - 09:40 Invited Plenary Lecture: Aaron Wheeler, University of Toronto, CA</b> <i>Digital Microfluidics for cell culture and Analysis</i>		
<b>09:40 - 10:00 Jeroen Lammertyn, University of Leuven, BE</b> <i>Digital microfluidic patterning of single superparamagnetic beads</i>		
<b>10:00 - 10:20 Pushant Puwar, Seoul National University, KR</b> <i>Physical cell cycle arrest with bacterial magnetic particle conjugate</i>		
<b>10:20 - 11:00 Coffee break / Exhibition</b>		
<b>11:00 - 12:00 Session II-2</b>		<b>Chair: Maurits de Planque</b>
<b>11:00 - 11:20 Frits Hulshof, University of Twente, NL</b> <i>High throughput screening of cell-material interactions using algorithm generated micro-topographies</i>		
<b>11:20 - 11:40 Jessica Koehne, NASA Ames Research Center, US</b> <i>A carbon nanofiber based biosensor for simultaneous detection of dopamine and serotonin in the presence of ascorbic acid</i>		
<b>11:40 - 12:00 Lorenz Jan Steinbock, EPFL, CH</b> <i>Glass Nanopores reveal folding state of single DNA molecules</i>		
<b>12:00 - 12:35 Poster Session B- first part</b> <i>Snapshot poster presentations</i>		<b>Chair: Séverine Le Gac</b>
<b>12:35 - 14:00 Lunch break</b>		
<b>14:00 - 15:10 Session II-2</b>		<b>Chair: Jonas Tegenfeldt</b>
<b>14:00 - 14:30 Invited: Ulrich Bockelmann, ESPCI, Paris, FR</b> <i>A transistor-based platform for multiplex genotyping of DNA</i>		
<b>14:30 - 14:50 Martin Hegner, Trinity College, Dublin, IE</b> <i>Quantitative Nanomechanical Diagnostics – Direct label free noncoding RNA detection from serum</i>		
<b>14:50 - 15:10 Sefan Harazim, IFW Dresden, DE</b> <i>on-chip integration of glass optofluidic ring resonators for label-free sensing applications</i>		
<b>15:10 - 15:40 Coffee break / Exhibition</b>		
<b>15:40 - 16:10 Invited: Peter Jönsson, University of Cambridge, UK</b> <i>Hydrodynamic Trapping and Manipulation of Molecules in Lipid Bilayers</i>		
<b>16:10 - 16:30 Poster Session B - second part</b> <i>Snapshot poster presentations</i>		<b>Chair: Junghoon Lee</b>
<b>16:30 - 16:40 Exhibitors Snapshot presentations</b>		
<b>16:40 - 18:00 Poster Session for all Posters at the poster area / Exhibition</b>		

# CONFERENCE PROGRAM

Wednesday, November 14th, 2012

<b>09:00 - 10:10 Session III-1</b>	<b>Chair: Junghoon Lee</b>
<b>09:00 - 09:30</b> <i>Invited: Emmanuel Delamarche, IBM Research, Zürich, CH</i> <i>Pumps, valves, bead traps and other functional microfluidic elements for capillary driven diagnostic chips</i>	
<b>09:30 - 09:50</b> <i>Susan Roefols, MESA+, University of Twente, NL</i> Characterization of Capacitive Deionization on a Chip for Mass Spectrometry Sample Preparation	
<b>09:50 - 10:10</b> <i>Petra Dittrich, ETH Zürich, CH</i> <i>A novel interface coupling droplet microfluidics with MALDI-mass spectrometry</i>	
<b>10:10 - 11:00 Coffee break / Exhibition</b>	
<b>11:00 - 12:00 Session III-2</b>	<b>Chair: Jonathan West</b>
<b>11:00 - 11:20</b> <i>Fleur van Rossem, MESA+, University of Twente, NL</i> Novel approach for measuring respiratory rates of mouse oocytes using short measurement times	
<b>11:20 - 11:40</b> <i>Andreas Vadsekis, EPFL, Lausanne, CH</i> <i>Optofluidic polymersome rupture for rapid single cell cytosolic delivery</i>	
<b>11:40 - 12:10</b> <i>Invited Closing Lecture: David Leigh, University of Edinburgh, UK</i> <i>Making the tiniest machines</i>	
<b>12:10</b>	<i>Award ceremony for Poster Prizes</i>