

Monday, November 18, 2019

08:00 - 09:00 Registration

Session M-1		Chair: Jonas Tegenfeldt
09:00 - 09:05	Opening and Welcome	
09:05 - 09:45	Invited Keynote Opening Lecture: Oscar Ces, Imperial College London, UK <i>Artificial Cell and Cellular Bionics</i>	p.12
09:45 - 10:05	Petra Jusková, ETH Zurich, Switzerland <i>Living in a bubble: lipid vesicles as a new tool for microbial cultivation</i>	p.14
10:05 - 10:25	Bastien Venzac, Institut Curie, France <i>The sliding walls: a new toolbox for manually-operated microfluidics</i>	p.16

Coffee break

Session M-2		Chair: Jonathan Cottet
11:00 - 11:20	Nadya Ostromohov, IBM Zurich, Switzerland & Technion Institute of Technology, Israël <i>Electrokinetic Scanning Probe</i>	p.18
11:20 - 11:40	Iago Pereiro, IBM Zurich, Switzerland <i>Pick and place of adherent cells with shear-stress and chemically -controlled microenvironments created by a microfluidic probe</i>	p.20
11:40 - 12:20	Poster snapshots, session A1 and exhibitors' presentations 8 snapshot presentations 2 min/poster Exhibitors presentations 5 min max Emulseo - Fluigent - UniPix	

Lunch break at the hotel (included in the registration)

Session M-3		Chair: Jonathan West
14:00 - 14:30	Invited: Yannick Rondelez, ESPCI Paris, France <i>Processing molecular signals using DNA-based circuits</i>	p.22
14:30 - 14:50	Slawomir Jakiela, Warsaw University of Life Sciences, Poland <i>Hydrodynamic resistance of microdroplets as an indicator of biological and immunological reactions</i>	p.24
14:50 - 15:10	Yegan Erdem, Bilkent University, Turkey <i>Numerical Modeling of Water Droplet Motion on Textured Surfaces</i>	p.26

Coffee break

Session M-4		Chair: Philippe Renaud
16:00 - 16:30	Invited: Esther Amstad, EPFL, Switzerland <i>Drops: A tool to introduce structures into materials</i>	p.28
16:30 - 17:00	Poster snapshots, session A2 8 snapshot presentations 2 min/poster	
17:10 - 18:30	Poster A Session in the poster area / Exhibition Reception / drinks	

19:30

Conference Dinner at Hotel Eurotel (included in the registration)

Tuesday, November 19, 2019

Session T-1		Chair: Philippe Renaud
09:00 - 09:40	Invited Keynote Lecture: Paolo Netti , Istituto Italiano di Tecnologia, Italy <i>Programmable instructive surfaces to control and guide morphogenesis in vitro</i>	p.30
9:40 - 10:00	Carlo Alberto Paggi , University of Twente, The Netherlands <i>Cartilage-on-Chip: A model to study chondrocyte behavior during mechanical stimulation</i>	p.32
10:00 - 10:20	Salomé Gutiérrez-Ramos , Institut Pasteur & Polytechnique, France <i>Quantification of Vibrio cholerae indole-induced persister cells using microfluidics</i>	p.34

Coffee break

Session T-2		Chair: Yegan Erdem
11:00 - 11:30	Invited: Christopher Dunsby , Imperial college London, UK <i>High content 3-D light sheet microscopy: cancer cell morphology and invasiveness and spheroid-based assays for compound safety screening</i>	p.36
11:30 - 11:50	Maxime Mistretta , Institut Pasteur, France <i>Multiplexable Platform for Single-Cell Imaging: A Tool to Target Phenotypic Heterogeneity</i>	p.38
11:50 - 12:10	Emile Lakis , Institut Curie, France <i>HER2 - HER3 dimerization on Circulating Tumor Cells in breast cancer patients: an EPHESIA microfluidic approach</i>	p.40
12:10 - 12:40	Poster snapshots, Session B1 <i>8 snapshot presentations 2 min/poster</i>	

Lunch break at the hotel (included in the registration)

Session T-3		Chair: Jonas Tegenfeldt
14:00 - 14:30	Invited: Radha Boya , University of Manchester, UK <i>Angstrom scale capillaries - molecular transport</i>	p.42
14:30 - 14:50	Piotr Korczyk , Polish Academy of Sciences, Poland <i>New unexpected regime of droplets formation in microfluidic confinement</i>	p.44
14:50 - 15:10	Jonathan West , University of Southampton, UK <i>Evolving the Drop-Seq Analytical Pipeline and Beyond</i>	p.46

Coffee break

Session T-4		Chair: Séverine Le Gac
15:40 - 16:10	Invited Keynote Lecture: Hang Lu , Georgia Tech, USA <i>Using microfluidics to image deep and wide</i>	p.48
16:10 - 16:40	Poster snapshots, Session B2 <i>8 snapshot presentations 2 min/poster</i>	
17:00 - 19:00	Poster B Session in the poster area / Exhibition Reception / drinks	

Wednesday, November 20, 2019

Session W-1		Chair: Jonathan West
09:00 - 09:30	Invited : Ali Koşar, Sabanci University, Turkey <i>Biocoatings for Thermal-Fluids and Micro-Thermal Systems</i>	p.50
09:30 - 09:50	Benoît Desbiolles, EPFL, Switzerland <i>Intracellular recording of cardiomyocyte action potentials with nanopatterned microelectrode arrays</i>	p.52
09:50 - 10:10	Matthieu Rüegg, EPFL, Switzerland <i>Biodegradable Wireless Microheaters for Transient Biomedical Implants</i>	p.54
Coffee break		
Session W-2		Chair: Séverine Le Gac
10:40 - 11:00	Daniel García-Lojo, University of Vigo, Spain <i>Microfluidic SERS Sensor based on Plasmonic Supercrystal</i>	p.56
11:00 - 11:20	Ana Ortiz Pérez, University of Twente, The Netherlands <i>3D model of liver cancer in vitro as a tool to evaluate nanomedicines</i>	p.58
11:20 - 12:00	Invited Keynote Closing Lecture: Claire Wilhelm, University Paris Diderot, France <i>The use and intracellular fate of magnetic nanoparticles in combined cancer therapy and tissue engineering</i>	p.60
12:00 - 12:20	Award ceremony for Poster Prizes and closing of the conference	

Thanks for your participation! And hopefully, see you next year.



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