

Sunday, November 12, 2023

18:00 - 20:00	- Opening of the conference desk. Distribution of badges and handbook - Welcome aperitif - Panels are ready for hanging posters
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Monday, November 13, 2023

Session M-1		Chair: Andrew deMello
9:00 - 09:05	Opening and Welcome	
9:05 - 09:45	Keynote Opening Lecture: Magnus Fontes , Roche Institute, Paris, FR <i>Challenging the status quo in Immunity state space</i>	
9:45 - 10:05	Stavros Stavrakis , ETH Zürich, CH <i>Viscoelastic Deformability Cytometry: Ultra-high Throughput Mechanical Phenotyping of Liquid and Solid Biopsies</i>	
10:05 - 10:25	Sebastian Cagigas , Eindhoven University of Technology, NL <i>Long-term continuous monitoring of biomarkers with single-molecule resolution: which molecular mechanisms are limiting?</i>	
Coffee break		
Session M-2		Chair: Charles Baroud
11:00 - 11:20	Massimo Mastrangeli , Delft University of Technology, NL <i>Towards fully-electric organs-on-chip</i>	
11:20 - 11:40	Zixu Wang , Pasteur, ENS, Paris, FR <i>Ovarian cancer migration is affected by fibronectin and TGF-β under microfluidic perfusion</i>	
11:40 - 12:00	Poster snapshots, session A	
Lunch buffet at the hotel, included in registration		
Session M-3		Chair: Yegan Erdem
14:00 - 14:20	Jed Harrison , University of Alberta, CA <i>Slip flow phenomena in nano-scale fluidic systems</i>	
14:20 - 14:40	Antoine Vian , Physics of Life, TU Dresden, DE <i>Double emulsion droplets as osmotic pressure sensors in biological systems</i>	
14:40 - 15:00	Max Hamedi , KTH Royal Institute of Technology, SE <i>Textile microfluidics for Molecular Diagnostics</i>	
Coffee break		
Session M-4		Chair: Yegan Erdem
15:50 - 16:30	Keynote Lecture : Anja Biosen , Technical University of Denmark, DK <i>Nano and microstructures for therapeutic drug monitoring and oral drug delivery</i>	
16:30 - 16:50	Hashim Alhמוד , Bilkent University, TR <i>Leveraging The Elastic Deformability of Polydimethylsiloxane Microfluidic Channels for Efficient Intracellular Delivery</i>	
16:50 - 17:10	Poster snapshots, session B	
17:20 - 19:00	Posters A presentations in poster area / Exhibition + Reception / drinks in lobby area	
19:30 - 22:00	Conference Dinner at Hotel Eurotel	

Tuesday, November 14, 2023

Session T-1		Chair: Philippe Renaud
9:00 - 9:30	Invited Speaker: Masatoshi Maeki, Hokkaido University, JP <i>Microfluidic devices for biomimetic nanoparticles</i>	
9:30 - 9:50	Julia Valderas Gutierrez, Lund University, SE <i>Light-guiding nanowires as a platform for highly sensitive detection of fluorescent biomolecules</i>	
9:50 - 10:10	Saeid Ansaryan, EPFL, CH <i>Plasmonic Single-cell Microarray for Spatiotemporal Secretion Monitoring</i>	
Coffee break		
Session T-2		Chair: Jonas Tegenfeldt
11:00 - 11:30	Invited speaker : Anna Herland, KTH Stockholm, SE <i>Functional neurovascular in vitro models – a combination of device and stem cell engineering</i>	
11:30 - 11:50	Tobias Ruff, ETH Zürich, CH <i>A microfluidic living biohybrid neural interface for synaptic deep brain stimulation</i>	
11:50 - 12:20	Poster snapshots, Session C <i>snapshot presentations 2 min/poster</i>	
Lunch buffet at the hotel, included in the registration		
Session T-3		Chair: Severine le Gac
14:00 - 14:30	Invited speaker : Paul Vulto, Mimetis, NL <i>From Lab to Organ: how microfluidics is changing drug research</i>	
14:30 - 14:50	Dorina Papanastasiou, University of Tokyo, JP <i>Versatile electrodes based on emerging nanomaterials: from lab-on-chip to on-skin applications</i>	
14:50 - 15:10	Elzbieta Jastrzebska, Warsaw University of Technology, PL <i>Advancing Cardiac Cell Modeling: From Nanofiber Scaffolds to Integrated Microsystems</i>	
Coffee break		
Session T-4		Chair: Jonathan West
15:40 - 16:00	Christoph Merten, EPFL, CH <i>Droplet Microfluidics in personalized cancer therapy and antibody discovery</i>	
16:00 - 16:20	John Molinski, Dartmouth College, USA <i>Rapid and scalable screening and drug loading within patient-derived exosomes towards autologous therapies</i>	
16:20 - 16:40	Poster snapshots, Session D <i>snapshot presentations 2 min/poster</i>	
16:40 - 16:50	Sponsors presentations	
17:00 - 19:00	Posters B presentations in poster area / Exhibition Reception / drinks in lobby area	

Wednesday, November 15, 2023

Session W-1		Chair: Charles Baroud
9:00 - 9:30	Invited speaker : <i>Lourdes Basabe-Desmots, University of the Basque Country, ES</i> <i>Microsystems for dynamic monitoring of cell affinity to substrates and toxic effects</i>	
9:30 - 9:50	<i>Camille Lambert, EPFL, CH</i> <i>Interconnected Robotic Imaging and Single-Cell RNA-seq (IRIS)</i>	
9:50 - 10:10	<i>Francesco Nalin, IChF, PL</i> <i>Tuna step: Tunable step emulsification for 3D printing of porously-graded functional materials</i>	
Coffee break		
Session W-2		Chair: Andrew de Mello
10:40 - 11:00	<i>Niklas Sandström, KTH Royal Institute of Technology, SE</i> <i>Single-use microwell chips for screening and high-resolution imaging of 2D and 3D immune cell cytotoxicity assays</i>	
11:00 - 11:20	<i>Sophia Belser, University of Cambridge, UK</i> <i>Multimodal quantum sensors for probing non-equilibrium thermodynamics of metabolism at the molecular scale</i>	
11:20 - 12:00	Keynote Closing Lecture : <i>Ellis Meng, University of Southern California, USA</i> <i>Enabling Scalable Polymer Implantable Electrode Interfaces for the Nervous System</i>	
12:00 - 12:15	<i>Award ceremony for Poster Prizes and closing of the conference</i>	