

*Sunday, November 12, 2023*

<b>18:00 - 20:00</b>	- 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*

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

**Tuesday, November 14, 2023**

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

*Wednesday, November 15, 2023*

<b>Session W-1</b>		Chair: Charles Baroud
<b>9:00 - 9:30</b>	<b>Invited speaker :</b>  <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>	
<b>9:30 - 9:50</b>	<i>Camille Lambert, EPFL, CH</i> <i>Interconnected Robotic Imaging and Single-Cell RNA-seq (IRIS)</i>	
<b>9:50 - 10:10</b>	<i>Francesco Nalin, IChF, PL</i> <i>Tuna step: Tunable step emulsification for 3D printing of porously-graded functional materials</i>	
<b>Coffee break</b>		
<b>Session W-2</b>		Chair: Andrew de Mello
<b>10:40 - 11:00</b>	<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>	
<b>11:00 - 11:20</b>	<i>Sophia Belser, University of Cambridge, UK</i> <i>Multimodal quantum sensors for probing non-equilibrium thermodynamics of metabolism at the molecular scale</i>	
<b>11:20 - 12:00</b>	<b>Keynote Closing Lecture :</b>  <i>Ellis Meng, University of Southern California, USA</i> <i>Enabling Scalable Polymer Implantable Electrode Interfaces for the Nervous System</i>	
<b>12:00 - 12:15</b>	<i>Award ceremony for Poster Prizes and closing of the conference</i>	