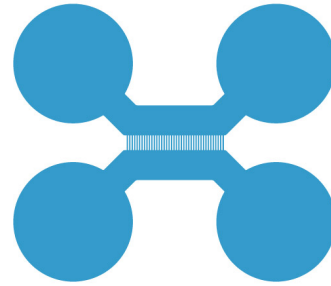


# neurofluidics 2019 conference



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## Preliminary Program

THURSDAY, NOVEMBER 28<sup>th</sup> 2019

**9h – 10h00 Welcoming / coffee – Poster setup**

**10h00-12h00 Session 1 – Cellular trafficking and cell-cell propagation**

10h – 10h40 *Invited Keynote Speaker* – **Noo LI JEON**, Seoul National University, Korea

10h50 – 11h10 **Audric JAN**, Institut Curie, France, Axonal Fasciculation and Growth Cone Dynamics in Confining Microchannels

11h15 – 11h35 **Martina BROFIGA**, U. Genova, Italy, Recreating in vitro the cortical-hippocampal system: towards a brain-on-a-chip

11h40 – 12 h **To be confirmed**

**12h00-14h00 Buffet / network / Poster session**

**14h00-15h30 Session 2 – Network level approaches**

14h – 14h40 *Invited Keynote Speaker* – **Paolo MASSOBRIO**, University of Genoa, Italy, On the road to achieving brain-on-a-chip: strategies, results, and applications using Multi-Electrode Arrays

14h50 – 15h10 **Teng PAN**, Institut Curie, In-mold Patterning for the control of synaptic connections

15h15 – 15h30 Industrial Session : **Emma DAVID**, MultiChannelSystems

**15h40-16h00 Coffee break**

**16h-17h30 Session 3 – Microfluidic MEA integration**

16h – 16h40 **Sophie GIRARDIN**, ETH Zurich, Switzerland, Electrical recording of iPSC-derived cortical neurons in PDMS microstructures

16h50 – 17h10 **Jelena STEVANOVIĆ** Forschungszentrum Jülich, Germany, Long-term recordings of cortico-striatal network connected via asymmetric microchannels in a microfluidic-MEA-hybrid system

17h15 – 17h35 **Nako NAKATSUKA**, ETH Zurich, Switzerland, Microfluidic Integration on Microelectrode Arrays to Monitor Neurochemical Flux

**19h – 21H Cocktail and dinner at La Gazette Café, Montpellier.**

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FRIDAY NOVEMBER 29<sup>th</sup> 2019

**9h – 10h Coffee welcome**

**10h-12h Session 4 – Pharmacotoxicology assays in devices**

10h – 10h40 *Invited Keynote Speaker* – **Sophie PAUTOT**, Synaxys, France

10h50 – 11h10 **Frederic SAUDOU**, GIN, France, Neurological disorders on chips, modulating intracellular dynamics and drug validation.

11h15 – 11h35 Industrial Session : **Thibault HONEGGER**, NETRI

**12h-14h Lunch / networking / Poster session**

**14h-15h Session 5 – Computational neuroscience advances using neurofluidics devices**

14h00-14h40 *Invited Keynote Speaker* – **Daniele POLI**, University of Pisa, Italy, Information coding and axonal transmission in living engineered networks co- cultured onto a multi-chamber PDMS device

14h40 – 15h **Emina IBRAHIMOVIC**, Elvsys Paris, France and University of Zürich, Switzerland, Binomial Model applied to the Neuromuscular Junction on Chip

**15h-15h30 Coffee break**

**15h30-16h30 Session 6 – Co-culture and organoids**

15h30 -15h50 **Eran PERLSON**, Tel Aviv University, Israel

15h55-16h15 **Pauline DUC**, IGMM IES, France, Modeling human NMJ-on-chip to recapitulate spinal muscular atrophy

16h15-16h35 **To be confirmed**

**16h35 Conference closing**

17h-18h Lab and cleanroom visit upon request.