

## Symposium

### High throughput microfluidic quantitative PCR from tissue to single cell genomics

Avec le soutien de :



- 8:45 Welcome and check -in
- 9:15 **Introduction – Bertrand Ducos**
- Session 1 : introduction to microfluidic qPCR – chair : *to be confirmed*
- 9:30 **Introduction to Fluidigm technology – Jordan Moore** (Fluidigm, Les Ulis, France)
- 10:00 **High throughput qPCR facility at the ENS : a free tour – Bertrand Ducos** (LPS-ENS, Paris)
- Session 2 : application to tissue analysis – chair : **Jordan Madic** (Institut Curie, Paris)
- 10:30 **Neuron-specific gene expression profiling during mouse brain development – Fekrije Selimi** (CIRB Collège de France, Paris)
- 11:00 *Coffee-Break*
- 11:20 **miRNA signature emphasizes misregulation of AMPA receptor as hallmark of Autism Spectrum Disorders – Lam Son Nguyen** (Institut Imagine, hôpital Necker, Paris)
- 11:50 **Ultrasensitive KRAS mutation detection in plasma of colorectal cancer patients by SPLITSEQ – Adrien Saliou** (Institut Curie, Paris)
- 12:20 **High throughput qPCR to characterize Enterohemorrhagic *E. coli* (EHEC) responsible of HUS and hemorrhagic colitis in humans – Sabine Delannoy** (ANSES, Maison Alfort)
- 12:50 *Lunch*
- Session 3 : application to single cell – chair : **Jean-José Maoret** (INSERM GenoToul, Toulouse)
- 14:15 **M-CSF instruct myeloid lineage fate in single haematopoietic stem cells – Noushine Mossadegh** (CIML, Marseille)
- 14:45 **Single-cell transcriptome and DNA sequencing using the C1™ Single-Cell Auto Prep System – Mark Lynch** (Fluidigm, Europe)
- 15:15 **Caracterisation of mammalian pluripotent cell subpopulations (human,rabbit and pig) using the Fluidigm technology – Hervé Acloque** (INRA, Toulouse)
- 15:45 *Coffee break*
- 16:00 **Modeling single cell variability in cancer progression and treatment – Marie-Ming Aynaud** (Institut Curie, Paris)
- Session 4 : novelties, application to proteomic – chair : **Bertrand Ducos** (LPS-ENS, Paris)
- 16:30 **High throughput protein profiling in 1 µL sample – introducing Proseek Multiplex – Gabriella Edfeldt** (Olink Bioscience, Uppsala, Sweden)
- 17:00 **Understanding biological heterogeneity through functional protein validation of genomics data with the CyTOF® 2 Mass Cytometry – Mark Lynch** (Fluidigm, Europe)
- 17:30 *Conclusion, end of the symposium*

# Map

## Amphithéâtre Jules Ferry

ENS - 29 rue d'Ulm - Paris 5<sup>ème</sup>

