



Centre de Recherche en
Neurosciences de Lyon

CRNL Workshop December 11, 2023

Spotlight on brain organoids : Why? What? How?



Program

- 09:00 - 09:30** **Registration - Welcome coffee**
- 09:30 - 09:40** **Welcome word** Laurent **BEZIN** CRNL Deputy Director
- Keynote lectures**
- 09:40 - 10:30** **Laura PELLEGRINI** MRC Laboratory of Molecular Biology, Cambridge UK
Cerebral Organoids: A New Window into Brain Development, Evolution, and Diseases
- 10:30 - 10:50** **Coffee break**
- 10:50 - 11:20** **Takuya ISOMURA** Riken Center for Brain Science, Saitama Japan
Experimental validation of the free-energy principle with in vitro neural networks
- 11:20 - 11:50** **Adrien BOTACCI** ADES, Aix-Marseille Université
Brain organoids: legal and ethical perspectives
- Feedback from local researchers**
- 11:50 - 12:05** **Bertrand PAIN** SBRI Stem Cell and Brain Research Institute, Lyon
From stem cells to cerebral organoids: to do what?
- 12:05 - 12:20** **Erika COSSET** CRCL Cancer Research Center of Lyon
How brain organoids can be used to model human diseases ?
- 12:20 - 12:35** **Marion DELOUS** CRNL Lyon Research Center of Neurosciences
Cortical organoids to decipher the cellular mechanisms leading to a rare microcephalic syndrome
- 12:35 - 12:40** **Sponsor talk : STEMCELL TECHNOLOGIES**
The Power of hPSCs-Derived Neural Models
- 12:40 - 14:00** **Lunch**
- Feedback from local researchers : organoid core facilities**
- 14:00 - 14:15** **Samantha BALLESTA** CRCL Cancer Research Center of Lyon
3D-ONCO facility : Human 3D models for oncology
- 14:15 - 14:30** **Bertrand PAIN** SBRI Stem Cell and Brain Research Institute, Lyon
'LYNOPLA - : LYon Neural Organoid Platform': a project for needs
- 14:30 - 14:50** **Coffee break**
- Keynote lectures**
- 14:50 - 15:20** **Bhuvaneish SELVARAJ** Dementia Research Institute, Edinburg UK
Human stem cell organoid models to study neurodegenerative diseases
- 15:20 - 15:50** **Emmanuele VILLA on behalf of G. TESTA** Human Technopole and University of Milan, Italy
Translating brain organoids endophenotypes: from mechanisms to scales
- 15:50 - 17:00** **Round-table** All speakers
- 17:00 - 17:10** **Closing remarks**

