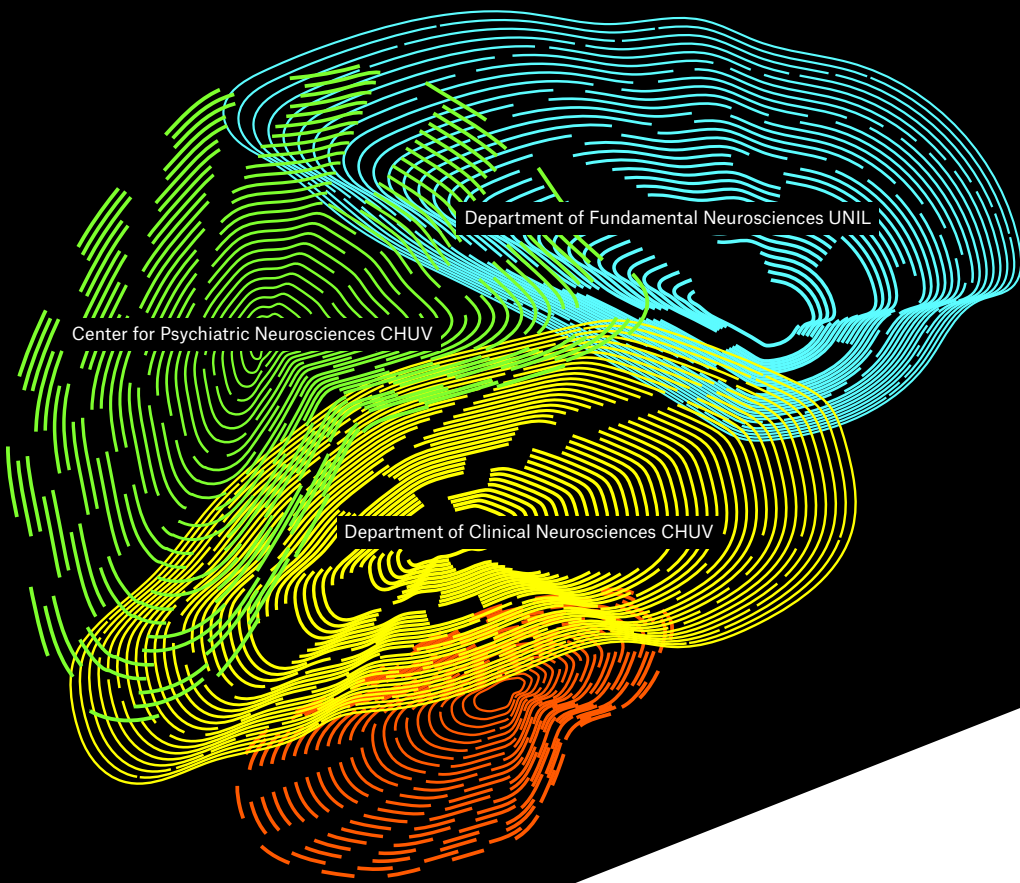


# 1<sup>st</sup> Stem Cells and Brain Organoids Training Course and Symposium



Department of Fundamental Neurosciences UNIL

Center for Psychiatric Neurosciences CHUV

Department of Clinical Neurosciences CHUV

4 April 2019

Venue:  
Centre Hospitalier  
Universitaire Vaudois (CHUV)  
Auditoire Jequier-Doge  
PMU level 8  
Rue du Bugnon 19  
1011 Lausanne

The advent of induced pluripotent stem (iPS) cells provides access to virtually limitless cells of any type, through a simple skin biopsy or blood sample.

Upon neuronal differentiation and growth in 3D matrix, these cells form organoids, which enable the study of brain development and diseases in vitro starting from patients' cells, thereby helping in bridging the gap between clinical and fundamental neuroscience.

For this first symposium, we have invited leaders in this field, who have considerably contributed to our understanding of human brain functions and dysfunctions through an outstanding research on stem cells.

This symposium will be preceded by the "Stem cells in Neuroscience" training course for the Lemanic Neuroscience Doctoral School.

No registration is required.

08:15-08:30	<b>OPENING REMARKS</b>
08:30-9:15	<b>DE HUMANI CORPORIS FABRICA: ORGANOID-BASED DECONVOLUTION OF NEUROPSYCHIATRIC DISORDERS AT SINGLE CELL RESOLUTION</b> Giuseppe Testa   University of Milan, Laboratory of Stem Cell Epigenetics, Italy
09:20-10:00	<b>MODELING RARE AND COMMON RISK FACTORS FOR SCHIZOPHRENIA USING STEM CELLS</b> Kristen Brennand   New York Stem Cell Foundation-Robertson Investigator, USA
COFFEE BREAK	
10:30-11:15	<b>USING STEM CELL MODELS TO STUDY BIPOLAR DISORDERS</b> Maria Marchetto   Salk institute, USA
11:15-12:00	<b>ACTIVE NEURONAL INTERFACING: CARBON BASED NANOMATERIALS FOR STIMULATING, REPLACING AND RE-DIRECTING AXON GROWTH</b> Laura Ballerini   International School for Advanced Studies, Trieste, Italy
LUNCH	
14:00-14:45	<b>DECIPHERING THE ROLE OF GLIA IN NEURODEGENERATIVE DISEASES USING PATIENTS IPSCS</b> Valentina Fossati   The New York Stem Cell Foundation, USA
14:45-15:10	<b>TEMPORAL FATE PLASTICITY IN NEOCORTICAL PROGENITORS</b> Denis Jabaudon   University of Geneva
15:45-16:05	<b>HUMAN INDUCED PLURIPOTENT STEM CELL-DERIVED ASTROCYTES ARE DIFFERENTIALLY ACTIVATED BY MULTIPLE SCLEROSIS-ASSOCIATED CYTOKINES</b> Sylvain Perriot   Neurology, University Hospital of Lausanne
COFFEE BREAK	
16:05-16:30	<b>REPRODUCIBLE IPSC-DERIVED BRAIN 3D MODEL TO STUDY OLIGODENDROCYTE AND MYELIN</b> David Pamies   Department of Physiology, University of Lausanne
16:30-16:55	<b>RETINAL CELLS DERIVED FROM IPSC TO TEST GENE TRANSFER AND DRUG ADMINISTRATION</b> Yvan arsenijevic   Ophthalmic Hospital, University Hospital of Lausanne
16:55-17:20	<b>GENERATION OF HYPOTHALAMIC OREXIN AND MCH NEURONS FROM MOUSE IPSCS</b> Ali Seifinejad   Department of Physiology, University of Lausanne
17:20-17:45	<b>DEVELOPMENTAL TRAJECTORY OF FRAGILE-X SYNDROME IPSCS</b> Giulia Cencelli   Department of Fundamental Neurosciences, University of Lausanne & Department of Biomedicine and Prevention, University of Rome Tor Vergata
17.45	<b>CLOSING REMARKS AND APERO</b>

# Organisers

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# Sponsors

FNRS, NCCR SYNAPSY, FBM

# Contact

The meeting will take place at:

Centre Hospitalier Universitaire Vaudois (CHUV)

Auditorium Jequier-Doge

PMU level 8

Rue du Bugnon 19

1011 Lausanne

# Map

[Plan des salles du BL08 \(PMU-CHUV\)](#)

# Additional information

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