

Neuro-Spring Symposium

Stem Cells and Reprogramming Methods for Neuroscience

May 20th, 2022 , Campus Bellvitge _ Aula de Graus

Program

9:00 – 9:10 **Welcome** (Paco Ciruela / Antonella Consiglio / Fernando Fernández-Aranda)

Session 1: Modelling brain development and neurodevelopmental disorders

Chairs: Sandra Acosta and Meritxell Rovira

9.10-9.35: Title: *TBD*

Stephanie Baulac (Paris Brain Institute, ICM)

9.35-10.00: *Deciphering human brain development: from genomes to functions*

Sandra Acosta (UB, IDIBELL)

10.00-10.25: *A multicellular human brain organoid model to study brain disease*

Ira Espuny (University Liege)

10.25-10.50: *COFFEE BREAK*

Session 2: Single cell genomics for deciphering functional changes in neurodegenerative diseases

Chairs: Antonella Consiglio and Jordi Guiu

10.50 -11.15: *Single-cell transcriptomics of iPSC-derived neurons reveals functional changes in Alzheimer's Disease*

Mireya Plass (IDIBELL, pCMRc)

11.15-11.40: *A new brain organoid model to study Parkinson's Disease.*

Veronica Testa (IDIBELL, SCN)

Session 3: In vitro models to mimic human diseases

Chairs: Alberto Ortega and Ester Aso

11.45-12.10: *Cell and non-cell autonomous contributors to ALS pathogenesis*

Alberto Ortega (UB, IDIBELL)

12.10-12.35 *Developing 3D blood-brain barrier models for malaria pathogenesis research*

Maria Bernabeu (EMBL)

12.35 – 12.50: *Mimic Neuron-Astrocyte Interactions in Parkinson's Disease using a Human iPSC-Based Technology*

Meritxell Pons (IDIBELL, SCN)

Session 4: From Disease modelling to translational research

Chairs: Paco Ciruela y Angel Raya

12:50 – 13:30 *Keynote invited talk: Engineering new interneurons for the cerebral cortex via lineage reprogramming*

Benedikt Berninger (King's College of London)

13:30 – 13:40 Concluding Remarks and discussion on the prospects on stem cells therapies

13.45-15:00 **LUNCH AND POSTER SESSION**

Submit your attendance and/or poster (title) submission interest by email to Neuroidibell@gmail.com before May 13th at 12 pm