



From Glia Cell Functions to Brain Dysfunctions: Understanding the Cellular Roots of Brain Disorders

Venue
ICM - Auditorium
Institute for Brain and Spinal Cord

Organizer
Barbara Di Benedetto
RTN2174, University of Regensburg (Germany)

09h30 Introduction (Barbara Di Benedetto)

S1. Astrocyte-neuron interactions in brain physiology and pathology (Chair: Eugenia Vivi)

10h00 Nathalie Rouach (College de France, Paris, France)
Astrocytes: guardians of critical period plasticity in the visual cortex

10h30 Matthew Holt (VIB, Leuven, Belgium/i3S, Porto, Portugal)
Astrocytes: Master Regulators of inhibition and plasticity

11h00 Coffee break

11h15 Alexandre Charlet (CNRS, Strasbourg, France)
Astrocyte-neuron interactions in oxytocin-induced modulation of amygdala functions

Short talks

11h45 Daria Mozheiko (College de France, Paris, France)
Astrocytes regulate dopaminergic neurotransmission upon cocaine exposure

12h00 Laura Boi (RTN2174 – University of Regensburg, Germany)
Involvement of astrocytes in OXT-regulated behaviours in social fear

12h15 Lunch Break

S2. Astrocytes in emotion dysfunctions (Chair: Laura Boi)

13h30 Luisa Pinto (ICVS, University of Minho, Porto, Portugal)
Adult astrogliogenesis as a key mechanism underlying the pathophysiology of stress-induced depression

14h00 Barbara Di Benedetto (RTN2174 - University of Regensburg, Germany)
Signatures of astroglial dysfunctions in mood disorders

14h30 Joao Oliveira (ICVS, University of Minho, Porto, Portugal)
Astrocyte modulation of cortico-limbic circuits underlying cognition and emotional behavior

Short talks

15h00 Eugenia Vivi (RTN2174 – University of Regensburg, Germany)
Astrocyte-mediated phagocytosis in mood and depression-like disorders

15h15 Anna Huber (RTN2174 – University of Regensburg, Germany)
Regulation of mitochondrial dynamics in the nervous system: glial and neuronal functions of the mitoSPIRE1 actin nucleator

15h30 Coffee break

S3. Astrocyte programming/reprogramming in brain physiology and pathology (Chair: Anna Huber)

15h45 Antonella Consiglio (IBUB, University of Barcelona, Spain)
Investigating Glia Contribution during Parkinson's Disease Pathogenesis through a human iPSC-based disease model

16h15 Jovica Ninkovic (BMC, Ludwig-Maximilians-University Munich, Germany)
Plastic astrocytes for the brain repair-lessons from the trans-species comparisons

16h45 Federico Luzzati (NICO, University of Turin, Italy)
Birth, integration and death of astrocyte-generated neurons in the adult striatum

Short talks

17h15 Valentina Baruffi (IBUB, University of Barcelona, Spain)
Investigate the interplay between innate and adaptive immune system in Parkinson's disease using a human iPSC-based model

17h30 Marco Fogli (NICO, University of Turin, Italy)
Continuous turnover of astrocyte-derived niches supports widespread and long term striatal neurogenesis after excitotoxic lesion

17h45 **Aperitive/Bufferet**

Attendance free! Limited seats, register by writing to:

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Eugenia Vivi – Eugenia.Vivi@ukr.de

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