



SIBBM 2024 • Frontiers in Molecular Biology

*The time of Molecular Biology:
development, homeostasis and aging*

Trento, Italy • 17-19 June 2024

Preliminary Programme

MON
17 JUN

TUE
18 JUN

WED
19 JUN

**LIST OF
POSTERS**

SESSION IV - STEM CELLS AND ORGANOIDS FOR DEVELOPMENT AND DISEASE

(JOINT SESSION WITH ASSOCIAZIONE DI BIOLOGIA CELLULARE E DEL DIFFERENZIAMENTO - ABCD)

CHAIRS: MASSIMO GULISANO (UNIVERSITY OF CATANIA AND SCRB, HARVARD UNIVERSITY, CAMBRIDGE, MA, USA) AND ALESSANDRO FIORENTINO (CNR INSTITUTE OF GENETICS AND BIOPHYSICS, NAPLES)

8:30-8:50

Rossella Di Giaimo (*Max Planck Institute of Psychiatry, Munich, Germany, University of Naples Federico II, Ludwig-Maximilians-University, Munich, Germany*)

Deciphering pathological mechanisms in a neurodevelopmental disease model: insights from extracellular vesicles

8:50-9:10

Desirèe Valente (*University Magna Graecia, Catanzaro, Italy*)

iPSCs-derived mosaic midbrain organoids (mMOs) reproduce neuropathological-relevant features of progressive supranuclear palsy (PSP)

- 9:10-9:30 **Martina Bertocchi** (*University of Milan, Italy*)
2D and 3D iPSC-derived neuronal models for the study of the role of lncRNA *PHOX2B-AS1* in the pathogenesis of Congenital Central Hypoventilation Syndrome
- 9:30-9:50 **Stefano Biressi** (*University of Trento, Italy*)
A mesenchymal signature identifies distinct fractions of muscle stem cells with different modalities of activation and quiescence maintenance
- 9:50-10:00 **Emma Di Capua** (*AHSI Biotechnology*)
Measure what's Important to your Cell: Agilent Seahorse XF Analysis opens up live-cell kinetic windows into cell function
- 10:00-10:40 **Coffee break**
- 10:40-11:10 **Irene Faravelli** (*Harvard University, Cambridge, MA, USA*)
Brain Cortical Chimeroids to explore human development and disease
- 11:10-11:40 **Graziano Martello** (*University of Padua, Italy*)
Dissecting early human embryonic development with a 3D *in vitro* epiblast model
- 11:40-11:50 Introduction to the Riccardo Cortese Lecture
- 11:50-12:20 **Riccardo Cortese Lecture**
Gabriella Minchiotti (*CNR Institute of Genetics and Biophysics, Naples, Italy*)
Stem cell-based embryo models: challenges and opportunities for fundamental research and translation
- 12:20-13:00 **Prizes and wrap-up**

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