



UNIMORE
UNIVERSITÀ DEGLI STUDI DI
MODENA E REGGIO EMILIA

PhD Program in Molecular and Regenerative Medicine

Molecular and Regenerative Medicine Seminar Series (MRMss)

Pluripotent stem cells: from fundamental biology to novel therapeutic approaches for neurodegenerative disorders

Prof. Graziano Martello, PhD

Thursday 4 December 2025, ore 12:00

Aula P2.1 – Ingegneria MO25 - Via Vivarelli 10/1, Modena

He is a Full Professor of Molecular Biology whose research focuses on the biology of pluripotent stem cells and their application to the study of neurodegeneration. He studied embryology during his PhD at the University of Padua and later to investigate pluripotent stem cells during his HFSP Postdoctoral training in Cambridge (UK).

His research in Cambridge focused on identifying transcription factors and signalling pathways that control the maintenance and induction of pluripotency.

In 2014, he established his independent laboratory in Italy with the support of two Career Development Awards, from the Telethon and Armenise-Harvard foundations. His group soon became interested in how metabolism affects the behaviour of pluripotent stem cells, enabling communication among different organelles. He also initiated a fruitful collaboration with bioengineers at his host institution, which led to several publications and a patent.

In 2016, he was awarded an ERC Starting Grant, and the following year he obtained a tenured position as Associate Professor. He has recently been appointed Full Professor and currently supervises a team of eleven researchers.

His current research aims to deepen the understanding of pluripotent cell biology and to explore the pathophysiology of Huntington's disease. His team has developed novel disease models using pluripotent stem cells and zebrafish and is actively investigating innovative therapeutic strategies.

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