

Federica Marinaro, Ph.D.

Federica Marinaro received her BSc in Health Biotechnology and MSc in Medical Biotechnology from the University Federico II of Naples, Italy, and her PhD in Neurobiology of microRNA from the University of Genoa, conducted at the Italian Institute of Technology. During her early career, she worked on brain and nervous system cancers, embryonic cortical development and schizophrenia. After her PhD, she continued her research as a postdoc in the laboratory of Professor Rick Livesey at the University of Cambridge and University College London, working on neurodegeneration and Alzheimer's disease. Federica led an international and multidisciplinary project where high technology methods were used to analyse human brain tissues at single nucleus resolution to reveal cell-type vulnerability in early onset Alzheimer's Disease. She moved then into a Research Informatics Engagement Manager role at Alzheimer's Research UK, in Cambridge, where she led the Strategic Collaborations team of the Early Detection of Neurodegenerative Diseases (EDoN) initiative, a global research project working to develop digital fingerprints for the early detection of the diseases that cause dementia.

Federica recently started her role as Senior Scientific Project Manager at the Human Technopole, in Milan, where she is offering her long-standing scientific and managerial expertise to the support of the [Neurogenomics Research Centre](#).

Work Experience

2022 – Present **Senior Scientific Project Manager, Neurogenomics, Human Technopole, Milan**
2020 – 2022 **Research Informatics Engagement Manager, [EDoN project](#) Strategic Collaborations Lead, Alzheimer's Research UK**
2019 – 2020 **Postdoctoral Research Associate, University College London**
2016 – 2019 **Postdoctoral Research Associate, University of Cambridge**
2015 – 2016 **Postdoctoral Research Associate, Italian Institute of Technology**
2012 – 2015 **Ph.D. candidate, Italian Institute of Technology**
2010 – 2012 **M.Sc. student, Centre of Genetic Engineering, Advanced Biotechnologies**

Additional Education

2009 – 2011 M.Sc. (first class honours) in Medical Biotechnologies, University of Naples "Federico II"
2005 – 2009 B.Sc. in Health Biotechnologies, University of Naples "Federico II"

Selected publications

1. **Marinaro F.***, Haneklaus M.*, Zhang Z. , Strano A., Evans L., Handfield L.F., Ryan N.S., Fox N.C., Hemberg M., Ramanathan S., Livesey F.J. Molecular and cellular pathology of monogenic Alzheimer's disease at single cell resolution, *BioRxiv*, July 2020 (doi: <https://doi.org/10.1101/2020.07.14.202317>).
2. **Marinaro F.**, Marzi M., Hoffmann N., Amin H., Pelizzoli R., Niola F., Nicassio F. and De Pietri Tonelli D. MicroRNA-independent functions of DGCR8 are critically required for neocortical development and TBR1 expression. *EMBO Reports*, February 2017 (doi: 10.15252/embr.201642800).
3. Amin H.*, **Marinaro F.***, De Pietri Tonelli D. & Berdondini L. Developmental excitatory-to-inhibitory GABA-polarity switch is disrupted in 22q11.2 deletion syndrome: a potential target for clinical therapeutics. *Scientific Reports*, November 2017 (doi: 10.1038/s41598-017-15793-9). *Equal contribution.

[Complete list of publications](#)