

MARILENA
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Group Leader – Laboratory Cortical microcircuits and neurodevelopmental disorders

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Marilena Griguoli graduated in Biological Sciences at Sapienza University (Rome) in 2006 with a thesis on the molecular features of the ectopic lymphoidogenesis in multiple sclerosis. She received her Ph.D. in neuroscience from International School for Advanced Studies (SISSA, Trieste) in 2010, under the supervision of Prof Enrico Cherubini. In Trieste, she investigated the role of nicotinic acetylcholine receptors in controlling the activity of inhibitory neurons in the hippocampus. In 2011, she moved to Interdisciplinary Institute for Neuroscience (IINS, Bordeaux, France) in Dr Mülle's laboratory, where she expanded her technical skills including *in vivo* recordings combined with opto-chemogenetic manipulation of distinct neuronal populations. In 2015, she moved in Rome to work at EBRI- Rita Levi-Montalcini Foundation in Prof Cherubini's laboratory, where she started to dissect out inhibitory circuits involved in social behavior in physiological conditions and in models of autism spectrum disorders. Currently she holds a permanent position as researcher at the National Research Council-Institute of Neuroscience Molecular Biology and Pathology (2021-) and a group leader position at EBRI- Rita Levi-Montalcini Foundation in Rome (2021-). Her research focuses on the role cholinergic modulation in social behavior in both physiological and pathological states such as neurodevelopmental disorders.

Education and Positions

2006 Degree in Biological Sciences, Sapienza University (Rome, Italy)

2010 PhD in Neuroscience, International School for Advanced Studies (SISSA) (Trieste, Italy)

2011-2014 Post-doctoral Fellow, Interdisciplinary Institute for Neuroscience (IINS) (Bordeaux, France)

2015-2020 Post-doctoral Fellow, European Brain Research Institute (EBRI)- Rita Levi-Montalcini Foundation (Rome, Italy)

2020-2021 Researcher, National Research Council, Institute of Neuroscience (Pisa, Italy)

2021-present Researcher, National Research Council, Institute of Molecular Biology and Pathology (Rome, Italy)

2021-Present Group Leader, European Brain Research Institute (EBRI)- Rita Levi-Montalcini Foundation (Rome, Italy)

Publications

Ciano Albanese N, del Castillo I, Ragaglia G, Castellano G, Ajmone-Cat M A, De Simone R, **Griguoli M**, Ricceri L. Microglia depletion in a mouse model of prenatal and postnatal immune activation. *Brain, Behavior and Immunity* 129:935-947. doi.org/10.1016/j.bbi.2025.07.018, **2025**

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Badurek S*, **Griguoli M***, Malik AA*, Zonta B*, Fei G, Middei S, Lagostena L, Jurado Parras MT, Gillingwater TH, Gruart A, Delgado Garcia JM, Cherubini E & Minichiello L. Immature dentate granule cells require Ntrk2/TrkB for the formation of functional hippocampal circuitry. *iScience* 23 (5) DOI: https://doi.org/10.1016/j.isci.2020.101078, *equally contributors, **2020**

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follicles by lymphotoxin beta receptor-Ig fusion protein. *Journal of Neuroimmunology*, 179 (1-2):76-86, **2006**