



Annarita Patrizi, PhD

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Education

2010-2017 Post-Doctoral Fellow, Boston Children's Hospital, Harvard Medical School, USA;
2010 PhD in Neurobiology, University of Turin, Italy;
2004 Master degree summa cum laude in Neurobiology Science, University of Turin, Italy;
2002 Bachelor degree summa cum laude in Biological Science, University of Siena, Italy.

Position and Research Experience

2017 - *to present* Chica und Heinz Schaller-Stiftung Research Group Leader, German Cancer Research Center (DKFZ), Heidelberg, Germany

Focus: Analyze the role of choroid plexus-released factors in the development and maturation of the cortical neuronal connectome.

2011- 2017 Post-Doctoral Research Scientist, Boston Children's Hospital, Harvard Medical School, USA.
Focus: The role of excitatory/inhibitory balance in cortical circuit refinement in Autism Spectrum Disorders with particular focus on Rett Syndrome. Advisors: Drs Michela Fagiolini and Takao K. Hensch.

2010 Post-Doctoral Research Scientist, University of Torino, Italy.

Focus: Building GABAergic synapses: from cell adhesion to activity-dependent synaptogenesis. Advisor: Prof. Marco Sassoè-Pognetto.

2005-2010 Graduate Research, University of Torino, Italy.

Dissertation: on "Mechanisms of GABAergic synapse development: from neuroligin-mediated cell adhesion to activity-dependent synaptogenesis". Advisor: Prof. Marco Sassoè-Pognetto.

2004-2005 Research Fellow, University of Turin, Italy.

Focus: Building GABAergic synapses: from cell adhesion to activity-dependent synaptogenesis. Advisor: Prof. Marco Sassoè-Pognetto.

2002-2004 Master Thesis Research, University of Turin, Italy.

Dissertation: "Influence of estrous cycle on the expression of the transcription factor AP2 in the brain of adult mouse". Advisor: Prof. Giancarlo Panzica.

2001-2002 Undergraduate Thesis Research, Department of Medical Science and Neuroscience, University



of Siena, Italy. Advisor: Prof. Anna Maria Aloisi.

Honors

2017 Chica und Heinz Schaller-Stiftung Research Group, Heidelberg, Germany;
2015 Nancy Lurie Marks Postdoctoral Fellowship in Autism Research, Boston Children's Hospital, USA;
2013 Mentored Training Fellowship, International Rett Syndrome Foundation, Boston Children's Hospital, USA;
2004 Magna cum laude, University of Turin, Italy;
2002 Magna cum laude, University of Siena, Italy.

Scientific Societies

Società Italiana di Anatomia; Società Italiana di Neuroscienze; Federation of European Neuroscience Societies (FENS); Society for Neuroscience (SfN); German Neuroscience Society (nwg).

Membership

April 2018 Cell Networks
March 2018 DKFZ-ZMBH Alliance
January 2018 Interdisciplinary Center for neuroscience (IZN).

Scientific Refereeing

2014- to present Ad hoc reviewer for Grant application: Italian Ministry of Health (MOH).

Teaching Experience

2005-2007 Teaching assistant of Human Anatomy, University of Turin Medical School;
2008-2009 Teaching assistant of Human Anatomy, University of Turin Medical School.

Mentoring and Leadership activities

2012-2017 Program Director Armenise-Harvard Summer Program for Italian undergraduate students.

Research Support

- International Rett Syndrome Foundation (PI: Patrizi A; Mentor: Fagiolini M)
01/01/2013-01/01/2015
"Rescuing misregulation of NMDA receptor subunits in Rett syndrome"
The goal of this project is to understand *when, where* and *how* the stoichiometry and activity-dependent phosphorylation of NMDAR subunits change in the absence of MeCP2, and to test whether these may represent a new potential treatment for cortical function in Rett Syndrome.
- Nancy Lurie Marks Postdoctoral Fellowship in Autism Research, Boston Children's Hospital (PI: Patrizi A ; Mentor: Fagiolini M)
01/08/2015-01/08/2016
"Parvalbumin-positive circuit connectivity in Rett Syndrome"
The goal of this proposal is to test whether parvalbumin fast spiking cells may represent a new potential therapeutic target for recovery of cortical function in a mouse model of Rett Syndrome.



We also will dissect the parvalbumin circuit in postmortem RTT human cortex as a first step towards evaluating the feasibility of a cell specific treatment in human patients.

- Chica und Heinz Schaller-Stiftung Research Group Leader (PI Annarita Patrizi)

01/10/2017-*to present*

"Choroid plexus: a new source of factors controlling the maturation of cortical GABAergic circuits"

The goal of this proposal is to identify choroid plexus-released instructive factors that are involved in the development and maturation of the cortical GABAergic interneuron connectome. In particular, I plan on profiling choroid plexus secretome and cerebrospinal fluid composition in normal and pathological development. I plan on understanding how choroid plexus-released factors influence the maturation of cortical neurons and which mechanisms underlie the production of choroid plexus-released factors.