PERSONAL INFORMATION

MAURIZIO GIUSTETTO

Affiliation
University of Torino
"Rita Levi-Montalcini" Department of Neuroscience
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Gender M | *Date of birth* 12/08/1966 | *Nationality* Italian

EMPLOYMENTS

01/10/2016 – current
Dept. Neuroscience, University of Torino (ITALY)
Associate Professor of Human Anatomy
Academic position; scientific activity on rare neurodevelopmental diseases
Faculty of the University of Torino Medical School
Member of the Faculty board of the Doctoral School in Neuroscience, University of Torino

01/11/2001 – 30/09/2016
Dept. Neuroscience, University of Torino (ITALY)
Assistant Professor of Human Anatomy
Academic position; scientific activity on neurobiology of learning and memory, rare neurodevelopmental diseases, and addiction.
Faculty of the University of Torino Medical School
Member of the Faculty board of the Doctoral School in Neuroscience, University of Torino
Lecturer in Human Anatomy for undergraduate Courses

15/06/1998 – 15/06/2002
Ctr. for Neurobiology and Behaviour, Columbia University, New York (USA)
Postdoctoral research scientist
Academic position; scientific activity on neurobiology of learning and memory

EDUCATION AND ACADEMIC DEGREES

06/11/2018
Full Professor in Human Anatomy habilitation by the National Scientific Qualification for Academic Staff committee

29/01/2014
Associate Professor in Human Anatomy habilitation by the National Scientific Qualification for Academic Staff committee

15/06/1998 – 15/06/2002
Postdoctorate
Ctr. for Neurobiology and Behaviour, Columbia University, New York (USA)
Neurobiology of learning and memory; genetic and epigenetic bases of synaptic plasticity and long-term memory; electrophysiology of synaptic transmission; molecular biology of neuronal cells; structural modifications underlying memory formation; prion-like properties of synaptic molecules

01/11/1993 – 31/10/1997
PhD in Neurological Sciences
Dept. of Human Anatomy and Physiology, University of Torino, Turin (ITALY)
Cellular and molecular neuroscience; structural and molecular biology of the synapse; ultrastructural localization of both Glutamatergic and GABAergic postsynaptic receptors and their scaffolding proteins; immunoelectron microscopy of the olfactory bulb

01/11/1991 – 05/07/1993
MS in Biological Sciences
Dept. of Human Anatomy and Physiology, University of Torino, Turin (ITALY)
Neuroanatomy; structural and ultrastructural organization of the olfactory bulb; molecular bases of olfaction; connectomic analyses of the olfactory pathway; first immunogold identification of the neurotransmitter released by olfactory sensory cells

ACHIEVEMENTS AND AWARD

Awards

1992 Undergraduate fellowship awarded by National Health Service
1996 Fellowship awarded by the German Society for Neuroscience
1998 PhD in Neuroscience at the University of Torino (with honors)
1998 Postdoctoral fellowship awarded by C.N.R.
1998 Postdoctoral fellowship awarded by Comitato Promotore Telethon
1999 Postdoctoral fellowship awarded by the Human Frontier Science Program
2009 Roche-Nature Medicine Translational Neuroscience Symposium: Autism and Other Developmental Brain Disorders: competitive stipend/participation award
2013 Selected founding member of the AIRETT RESEARCH TEAM supported by AIRETT Association for Rett Syndrome

Editorial activity

Editorial board:
Frontiers in Synaptic Neuroscience; Frontiers in Cellular Neuroscience

Serving in Grant Review Agencies:
-International Rett Syndrome Foundation (USA)
-The Research Council of Norway (Norway)
-The French National Research Agency (France)
-Grants Program at the University of California, San Diego (USA)
-Epilepsy Research UK (United Kingdom)

Peer review activity:
Neuron, Journal of Neuroscience, Progress in Neurobiology, Neuroscience and Biobehavioral Reviews, European Journal of Neuroscience, Journal of Neurochemistry, Neuroscience, PLoS ONE, European Journal of Human Genetic, Journal of Neuroscience Methods, Biological Psychiatry, Neural Plasticity. Human Molecular Genetics, and others.

Major invited presentations

2005 New York University, Skirball Institute for Molecular Medicine, New York
2005 Institute of Genetics and Biophysics "A. Buzzati-Traverso", CNR, Napoli
2007 EMBL, Monterotondo
2007 European Working Group on Rett Syndrome, Italy;
2009 European Working Group on Rett Syndrome, Italy;
2010 2nd European Rett Syndrome Conference, Edinburgh, UK;
2011 Int. Rett Syndrome Foundation Annual Meeting, Washington DC, USA
2011 NIH Workshop; Bethesda, USA;
2011 Workshop on Autism; CNR Institute of Neuroscience (Pisa. Italy)
2011 Molecular Mechanisms in Neuroscience meeting (Rome)
2012 University of Trieste
2012 University of Braunschweig (Germany)
2012 Nico Institute for Neuroscience (Italy)
2012 Istituto Mario Negri (Milano; Italy)
2012 Inserm (Marseille, France)
2013 3rd European Rett Syndrome Conference (Maastricht, NL)
2014 University Hospital of Wales, Cardiff University (Wales)
2014 2nd International CDKL5 Research Symposium (Washington DC, USA);
2014 6th Conference of the Mediterranean Neuroscience Society, Cagliari, Italy
2015 4th European Congress on Rett Syndrome (Rome, Italy)
2016 Int. Rett Syndrome Foundation Annual Meeting, Washington DC, USA
2016 CDKL5 Forum, London, UK;
2016 CDKL5 Europe 2016 - Birmingham, UK;
2016 Focus on CDKL5 (Torino; Italy)
2017 The 4th International CDKL5 Congress, Rome, Italy
2018 Rett Syndrome Research, Towards the Future, Rome, Italy
2019 CDKL5 Forum, London, UK
2021 Univ. of Siena (Italy; on-line)

ADDITIONAL INFORMATION

Publications

total number of publications in peer-review journals: 54

total Impact Factor (IF) 434,959 (average IF/paper) 8,055

total number of citations: 5919

H index: 34

Selected recent pubblications

1- Musi C. A., Castaldo A. M., Valsecchi A. E., Cimini S., Morello N., Pizzo R., Renieri A., Meloni I., Bonati M., Giustetto M., Borsello T. (2021). JNK signaling provides a novel therapeutic target for Rett syndrome. BMC BIOLOGY, vol. 19, p. 256-275, ISSN: 1741-7007, doi: 10.1186/s12915-021-01190-2

2-Pizzo R., Lamarca A., Sassoe-Pognetto M., Giustetto M. (2019). Structural Bases of Atypical Whisker Responses in a Mouse Model of CDKL5 Deficiency Disorder. NEUROSCIENCE, p. 1-14, ISSN: 0306-4522, doi: 10.1016/j.neuroscience.2019.08.033

3-Morello, Noemi, Schina, Riccardo, Pilotto, Federica, Phillips, Mary, Melani, Riccardo, Plicato, Ornella, Pizzorusso, Tommaso, Pozzo-Miller, Lucas, Giustetto, Maurizio (2018). Loss of Mecp2 causes atypical synaptic and molecular plasticity of parvalbumin-expressing interneurons reflecting rett syndrome–like sensorimotor defects. ENEURO, vol. 5, p. 1-19, ISSN: 2373-2822, doi: 10.1523/ENEURO.0086-18.2018

4-Vicidomini C, Ponzoni L, Lim D, Schmeisser MJ, Reim D, Morello N, Orellana D, Tozzi A, Durante V, Scalmani P, Mantegazza M, Genazzani AA, Giustetto M, Sala M, Calabresi P, Boeckers TM, Sala C, Verpelli C. (2017) Pharmacological enhancement of mGlu5 receptors rescues behavioral deficits in SHANK3 knock-out mice. *Molecular psychiatry* 22(5) 689-702

5-Pizzo R, Gurgone A, Castroflorio E, Amendola E, Gross C, Sassoe-Pognetto M, Giustetto M. (2016) Lack of Cdkl5 Disrupts the Organization of Excitatory and Inhibitory Synapses and Parvalbumin Interneurons in the Primary Visual Cortex. *Frontiers in cellular neuroscience* 10 261

6-Meziane H, Khelfaoui M, Morello N, Hiba B, Calcagno E, Reibel-Foisset S, Selloum M, Chelly J, Humeau Y, Riet F, Zanni G, Herault Y, Bienvenu T, Giustetto M, Billuart P. (2016) Fasudil treatment in adult reverses behavioural changes and brain ventricular enlargement in Oligophrenin-1 mouse model of intellectual disability. *Human molecular genetics* 25(11) 2314-2323

7-Amendola E, Zhan Y, Mattucci C, Castroflorio E, Calcagno E, Fuchs C, Lonetti G, Silingardi D, Vyssotski AL, Farley D, Ciani E, Pizzorusso T, Giustetto M, Gross CT. (2014) Mapping pathological phenotypes in a mouse model of CDKL5 disorder. *PloS one* 9(5) e91613

8-Arroyo AI, Camoletto PG, Morando L, Sassoe-Pognetto M, Giustetto M, Van Veldhoven PP, 9-Schuchman EH, Ledesma MD. (2014) Pharmacological reversion of sphingomyelin-induced dendritic spine anomalies in a Niemann Pick disease type A mouse model. *EMBO molecular medicine* 6(3) 398-413

9-Ricciardi S, Boggio EM, Grosso S, Lonetti G, Forlani G, Stefanelli G, Calcagno E, Morello N, Landsberger N, Biffo S, Pizzorusso T, Giustetto M, Broccoli V. (2011) Reduced AKT/mTOR signaling and protein synthesis dysregulation in a Rett syndrome animal model. *Human molecular genetics* 20(6) 1182-96

10-Paolicelli RC, Bolasco G, Pagani F, Maggi L, Scianni M, Panzanelli P, Giustetto M, Ferreira TA, Guiducci E, Dumas L, Ragozzino D, Gross CT. (2011) Synaptic pruning by microglia is necessary for normal brain development. *Science* 333(6048) 1456-8