Università di Genova

Anna Fassio

Associate Professor in Physiology

EDUCATION AND TRAINING

1999
PhD in Pharmacology and Toxicology
University of Genoa, Italy
1994
Master Degree in Pharmacy
University of Genoa, Italy
1993
Master Degree in Chemistry and Pharmaceutical Technology
University of Genoa, Italy

PROFESSIONAL HISTORY

May 2025
Full professor in Physiology
Appointed as full professor in Physiology at the Department of Experimental Medicine (DIMES), University of Genoa, Italy.
From 2017
Associate professor in Physiology
Department of Experimental Medicine (DIMES), University of Genoa, Italy.
From 2018
Affiliate Researcher
IRCCS Ospedale Policlinico San Martino, Genoa, Italy
From 2017
Affiliate Researcher
Center for Synaptic Neuroscience and Technology, IIT, Genoa, Italy.
2005-2016
Researcher in Physiology
Department of Experimental Medicine (DIMES), University of Genoa, Italy.
2002-2005
Postdoctoral fellow in synaptic physiology
Department of Experimental Medicine (DIMES), University of Genoa, Italy.
1999-2001
Postdoctoral fellow in molecular immunology
Molecular Immunology Unit, DIBIT San Raffaele Hospital, Milan, Italy.
1994-1998
PhD fellow in neuropharmacology
Department of Pharmacology and Tossicology, University of Genoa Italy
1996
PhD fellow in neuropharmacology
Babraham Institute, Cambridge UK.

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ACADEMIC APPOINTMENTS

From 2009
Member of the committee of the PhD in Neuroscience
University of Genoa, Italy
2022-2024
Member of the committee of the School of Medicine and Pharmacy.
University of Genoa, Italy
2017-2024
Member of the Central Commission for Research.
University of Genoa, Italy
2018-2022
Vicedirector Department of Experimental Medicine,
Coordinator of the research DIMES research commission.
University of Genoa, Italy
2017-2024
Member of the Committee of the Department of Experimental Medicine,
University of Genoa, Italy

EXPERIENCE

MAIN SEMINARS

15/01/2020 Synaptic genes and epilepsy: vesicular cycle, pH regulation and autophagy. Afternoon with science, conversation with prof. Anna Fassio. Fondazione Meyer Firenze
08/07/2019 Synaptic genes and epilepsy: vesicular cycle, pH regulation and autophagy. Lunch Seminar. IRCCS Ospedale Policlinico San Martino.
16/05/2018 Membrane trafficking at the presynaptic site: physiological regulation and implication in pathology. Seminar in Biomedical Sciences. University of Genoa
24/04/2018 Membrane trafficking at the presynaptic site: physiological regulation and implication in pathology. Invited Seminar. Harwell Institute, Oxford, UK
07/06/2016 Use of lentiviruses to functionally dissect the synaptic vesicle cycle. ECMED Workshop The use of virus vectors in Neuroscience. Bogliasco, Italy 6-8 Giugno 2016
21/05/2015 TBC1D24 function in neurons and Arf6 interaction. TBC1D24 workshop. Epilepsy Society, Chalfont-St-Peter, Buckinghamshire UK.
05/09/2013 Dalle Sinapsi alle interfacce neurali: nuove prospettive per la cura delle malattie neurologiche. visita all'Università di Genova del Ministro della Istruzione e della Ricerca Scientifica 2013, prof.ssa Maria Chiara Carrozza. Università di Genova.
05/04/2011 Studying exo-endocytosis with pH-sensitive, synaptic vesicle-targeted fluorescent probes. Scuola di Fisiologia e Biofisica della SIF "New technologies for the study of the central nervous system". Università di Genova.
30/06/2010 Novel single point mutations associated with epilepsy: a study from the synaptic point of view. Invited seminar. NEST Scuola Normale Superiore, Pisa.

SCIENTIFIC RESPONSIBILITY FOR RESEARCH PROJECTS ACCEPTED FOR FUNDING ON THE BASIS OF COMPETITIVE CALLS INVOLVING PEER REVIEW

2025-2027: "Interaction of TBC1D24 with v-ATPase: pathophysiological mechanisms and novel therapeutic targets for rare TBC1D24 diseases" PI
FINDAZIONE TELETHON
2023-2025: "Temporal regulation of ionic and proteome homeostasis: implications for cortical excitability and brain physiopathology" PI
MIUR PRIN 2022

2022-2025: “A multiscale integrated approach to the study of the nervous system in health and disease- MNESYS/spoke 2 Neural Plasticity and Connectivity” PI
MIUR PNRR-PE Neuroscience project
2023-2024: “Boosting Autophagy: a novel therapeutic strategy for TBC1D24 epilepsy” PI
ORPHAN DISEASE CENTER MILLION DOLLAR BIKE RIDE
2020-2023: “An innovative molecular strategy, by non-coding RNAs, for treatment of neurodevelopmental synaptopathies” PI
Compagnia di San Paolo
2019-2021: “Developmental and epileptic encephalopathies: epidemiology, comorbidities, molecular diagnosis, personalized management, and costs analysis (DECODE-EE)” COLLABORATOR
Regione Toscana
2014-2018: “Development and Epilepsy Strategy for Innovative Research to improve diagnosis, prevention and treatment in children with difficult to treat Epilepsy-DESIRE” COLLABORATOR
FP7, COOPERATION 2013
2013-2015: “Dysregulation of Arf6 pathway and intellectual disability: impact on synapse function” PI
Fondation Jerome Lejeune
2011-2015: “Novel treatment for a genetic drug-resistant epileptic encephalopathy of infancy: virus delivered RNA interference in an animal model of Dravet syndrome” PI
Fondazione Mariani, Milano
2008-2011: “Canali ionici neuronali ed epilessia: meccanismi patogenetici e nuove strategie terapeutiche mediante "RNA interference” PI
Ministero della Sanità
2008-2011: “The Synapsins and membrane trafficking in nerve terminals” PI
Compagnia di San Paolo
2006-2008: “Development and plasticity in networks of neurons grown onto micropatterned substrates” PI
MIUR bando PRINN

PRIZES AND ACCOLADES FOR SCIENTIFIC ACTIVITY, INCLUDING MEMBERSHIP OF ACADEMIES

2021-today Elected component of the Board of Director
Italian Society of Physiology (SIF)
2023-today Member
Lega Italiana Contro Epilessia (LICE)
2016-today Member
Italian Society of Physiology (SIF)
2016-today Member
Italian Society of Neuroscience (SINS)