



Anna Fassio

Associate professor

✉ anna.fassio@unige.it

☎ +39 0103538189

Education and training

1993

Laurea in Chimica e Tecnologia Farmaceutiche

Studi sulla presenza di due autorecettori GABAergici farmacologicamente distinguibili nella corteccia cerebrale e nel midollo - 110/110

Università di Genova - Genova - IT

1994

Laurea in Farmacia

Studi in vitro ed in vivo sul meccanismo d'azione della fenfluramina - 100/110

Università di Genova - Genova - IT

1999

Dottorato in Neurofarmacologia

Liberazione di neurotrasmettitori indotta dall'attivazione di un trasportatore gabaergico presinaptico: meccanismo e modulazione

Università di Torino sede consorziata Genova - Torino - IT

Academic experience

1999 - 2001

Post-doctoral fellow

San Raffaele Scientific Institute - Milano - IT

2002 - 2005

Assegnista di ricerca

Università di Genova - Genova - IT

2005 - 2017

Ricercatore universitario

Università di Genova - Genova - IT

2017 - ONGOING

Professore Associato

Università di Genova - Genova - IT

Work experience

2011 - ONGOING

Collaboratore esterno

Istituto Italiano di tecnologia - Genova - IT

2018 - ONGOING

Ricercatore affiliato

IRCCS Ospedale Policlinico San Martino - Genova - IT

Research interests

My research activity deals with synaptic physiology and is aimed at understanding the molecular mechanisms of neurotransmitter release and synaptic vesicle trafficking. More recently, the involvement of synaptic genes in neuronal development and synaptic formation and stability took place in my research. A particular focus is on the pathophysiology of neurological and psychiatric diseases associated with mutations in synaptic genes using in vitro and in vivo models with a combination of experimental techniques ranging from molecular and cellular biology, morphological and functional imaging and electrophysiology. Synapsins, TBC1D24 and members of the vacuolar-ATPase complex are the gene products currently under investigation.

Grants

2020 - ONGOING

An innovative molecular strategy by non-coding RBAs for treatment of neurodevelopmental synaptopathies.

Fondazione San Paolo - IT

Principal investigator

2019 - ONGOING

Il disturbo cognitivo-comportamentale via finale comune di patologie eterogenee da disfunzione sinaptica

5x1000 IRCCS San Martino

Principal investigator

2015 - 2017

Functional role of epilepsy gene TBC1D24 in neuronal development.

Università di Genova - IT

Principal investigator

2013 - 2015

Dysregulation of Arf6 pathway and intellectual disability impact on synapse function.

Foundation Jerome Lejeune - FR

Principal investigator

2011 - 2013

Novel treatment for a genetic drug-resistant epileptic encephalopathy of infancy virus delivered RNA interference in an animal model of Dravet syndrome.

Fondazione Mariani - IT

Principal investigator

2008 - 2011

The Synapsins and membrane trafficking in nerve terminals

Fondazione San Paolo - IT

Principal investigator

2008 - 2011

Canali ionici neuronali ed epilessia meccanismi patogenetici e nuove strategie terapeutiche mediante 'RNA interference' (RNAi).

MINISTERO DELLA SALUTE-progetto giovani - IT

Principal investigator

2006 - 2008

Development and plasticity in networks of neurons grown onto micropatterned substrates.

MIUR-PRINN - IT

Principal investigator

Assignments abroad

1996: visiting Fellow Babraham Institute, Cambridge, UK

Other professional activities

2020-2023 : board of directors Società Italiana di Fisiologia