

## Yuri Bozzi - CURRICULUM VITAE

### PERSONAL DATA

Languages: Italian, English, French

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### ACADEMIC AND PROFESSIONAL RECORD

- 1986-1991: MSc student in Biology ("Corso di Laurea in Scienze Biologiche"), University of Pisa, Italy.
- October 17, 1991: MSc Degree ("Laurea in Scienze Biologiche"), University of Pisa, Italy (score: 110/110 cum laude).
- 1992-95: Ph.D. student in Neurobiology. Scuola Normale Superiore, Pisa, Italy.
- 1993-94: Visiting fellow as conscientious objector (civil service in place of military service). Consorzio Mario Negri Sud, Chieti, Italy.
- November 1995: national examination ("Esame di Stato") for the habilitation to the profession of biologist, University of Pisa, Italy (score: 118/150).
- March 25, 1996: Ph.D. degree in Neurobiology ("Diploma di Perfezionamento in Neurobiologia"), Scuola Normale Superiore di Pisa (score: 70/70 cum laude).
- 1996-99: Post-doctoral fellow. IGBMC, Strasbourg, France.
- 1999-2000: Post-doctoral fellow, Scuola Normale Superiore, Pisa, Italy.
- 2000-01: Post-doctoral fellow, Telethon Foundation, CNR Institute of Neuroscience, Pisa, Italy.
- 2001-17: Research Scientist ("ricercatore III livello", permanent position), CNR Institute of Neuroscience, Pisa, Italy.
- 2002-08: On-contract Professor, University of Pisa, Italy.
- 2009-17: Principal Investigator. Laboratory of Molecular Neuropathology, Centre for Integrative Biology (CIBIO), University of Trento, Italy.
- 2010-17: On-contract Professor, CIBIO, University of Trento, Italy.
- Since February 1, 2017: Full Professor in Physiology, Center for Mind/Brain Sciences, University of Trento, Italy.

### ACADEMIC APPOINTMENTS

- March 1, 2017 – March 12, 2019. CIMEC delegate for the quality control of teaching and research.
- September 25, 2017 – April 10, 2019. Member of the Recruitment Committee, University of Trento.
- Since October 7, 2018: candidate member of the National Scientific Habilitation (ASN) Committee, sector 05/D1 Physiology.
- Since March 12, 2019: Coordinator of the Doctorate Program in Cognitive and Brain Sciences, CIMEC, University of Trento, Italy.

### RESEARCH EXPERIENCE

- 1990-1991: MSc student internship, Laboratory of Cellular and Developmental Biology, University of Pisa, Italy. Gene expression studies of Nerve Growth Factor (NGF) and its receptors in the developing rat visual system. Supervisor: Prof. Giuseppina Barsacchi.
- 1992-1995: Ph.D. student, Laboratory of Neurobiology, Scuola Normale Superiore, Pisa, Italy. Studies on the activity-dependent expression of neurotrophic factors in the developing and adult rat visual system. Supervisor: Prof. Lamberto Maffei.

- 1993-1994: Visiting fellow as conscientious objector, Molecular Neurobiology Laboratory, Consorzio Mario Negri Sud, Chieti, Italy. Biochemical studies on the regulation of intracellular protein transport. Supervisor: Dr. Alberto Luini.
- 1996-1999: Post-doctoral fellow, IGBMC, Strasbourg, France. Molecular, anatomical and physiopathological studies on dopamine D2 receptor (D2R) knockout mice. My studies contributed to investigate the role of D2R signaling in the proliferation of prolactin-producing cells in the pituitary gland and the role of D2R signaling in seizure susceptibility and seizure-induced hippocampal cell death.
- 1999-2001: post-doctoral fellow, Scuola Normale Superiore and CNR Institute of Neuroscience, Pisa, Italy. Studies on the molecular mechanisms of BDNF-mediated neuroprotection in a rat model of visual system lesion. Supervisor: Prof. Lamberto Maffei.
- 2001-2009: research scientist at the CNR Institute of Neuroscience, Pisa, Italy. During these years I started my independent research group, studying molecular mechanisms of neuronal death and survival, antiepileptic effect of botulinum neurotoxin and molecular basis of epilepsy.
- 2009-2017: principal investigator at the Molecular Neuropathology Laboratory, Centre for Integrative Biology (CIBIO), University of Trento, Italy. Studies on animal models of epilepsy and autism spectrum disorders.
- 2013-2017: Coordinator of the "Neurobiology and Development" Research Program, CIBIO, University of Trento, Italy.
- 2017-present: principal investigator at the Center for Mind/Brain Sciences (CIMeC), University of Trento, Italy. Studies on animal models of epilepsy and autism spectrum disorders.

#### FELLOWSHIPS, HONORS, AWARDS

- 1993: Fellowship to participate to the XI Congress ABCD, Milano, Italy.
- 1995: Fellowship to participate to the Gordon Research Conference "Neurotrophins" (South Plymouth, NH, USA).
- 1996-1999: "post-doctoral" fellowships at IGBMC, Strasbourg, France (Fondation pour la Recherche Medicale, Fondation Fyssen, Ligue National contre le Cancer)
- 1996: Prize for the best oral communication at the V Italian Congress "Young Researchers in Neuroscience" (Pisa, Italy).
- 1999-2000: "post-doctoral" fellowship in Neurobiology (Scuola Normale Superiore, Pisa, Italy).
- 2000-2001: Fellowship from Fondazione Telethon (Grant 461/bi "In vivo and in vitro models to study the genetic program of neuronal death and survival").

#### GRANTS AWARDED

- 2000-2002: Research grant 461/bi, Telethon Foundation (Italy). Principal investigator. Title of the project: "In vivo and in vitro models to study the genetic program of neuronal death and survival". Budget: 55,000 €.
- 2004-2005: Research grant R-04-38, Pierfranco and Luisa Mariani Foundation (Italy). Principal investigator. Title of the project: "Antiepileptic and neuroprotective effects of intracerebral delivery of Botulinum Toxin E in an animal model of temporal lobe epilepsy". Budget: 50,000 €.
- 2005-2006: Research grant GGP04086, Telethon Foundation (Italy). Co-principal investigator (PI Dr. Matteo Caleo). Title of the project: "Antiepileptic effects of botulinum toxins in rodent models of temporal lobe epilepsy". Budget: 110,000 €.
- 2007-2008: Research grant, Parents Against Childhood Epilepsy (PACE, USA). Principal investigator. Title of the project: "Suppression of a seizure focus by infusion of botulinum neurotoxin in mouse models of temporal lobe epilepsy". Budget: \$50,000.
- 2007: IBRO funding to organize the Fourth Conference on Epileptogenesis (Pisa, Italy, May 23-26, 2007). Budget: 5,000 €.
- 2008-2009: Research grant, National Research Council (CNR, Italy) – "Ricerche Spontanee a Tema Libero" (RSTL). Principal investigator. Title of the project: "Identification of novel genes involved in epileptogenesis through DNA microarrays technology". Budget: 35,000 €.
- 2010-2016: Start-up grant for the Molecular Neuropathology Lab management, Centre for Integrative Biology (CIBIO), Univ. of Trento. Budget: from 10,000 to 30,000 € per year.
- 2010-2012: Research grant, Italian Ministry of Health, "Ricerca Finalizzata" Program. PI. Title of the project: "Role of inflammation in the genesis of late-onset epilepsies: gene expression studies in animal models and mutation analysis in epileptic patients". Budget: 270,000 €.

- 2010-2012: Research grant, Italian Ministry of Education and Research (PRIN 2008 Program). PI. Title of the project: "Neuroanatomical and behavioural characterization of Engrailed-2 knockout mice, a model for autism spectrum disorders". Budget: 36,000 €.
- 2010-2013: Research grant, Provincia Autonoma di Trento / EC Marie Curie cofund action. Co-principal investigator (PI: Dr. Paola Sgadò). Title of the project: "Neurobiological basis of autism spectrum disorders: development of cortical inhibitory systems in Engrailed-2 mutant mice" (EnCort project). Budget: 150,000 €.
- 2013-2015: Research grant, Italian Ministry of Education and Research (PRIN 2010 Program). PI. Title of the project: "Role of BDNF in inhibitory system development in Engrailed-2 mutant mice". Budget: 90,000 €.
- 2013-2015: Telethon 2012. "Modelling etiopathogenesis of the Foxg1-linked variant of West syndrome". PI of participating Unit. Coordinator: Prof. Antonello Mallamaci, SISSA, Trieste, Italy. Budget: 35,000 €.
- 2016-2017: EU project 706567 – TransSplicHD "Single-Cell Transcriptomics and Spliceosome analysis to uncover new mechanisms of neuronal vulnerability to Huntington's Disease". (Principal Investigator: Marta Biagioli; Centre for Integrative Biology, University of Trento). Role in the project: supervisor/collaborator. Budget: 180,277 €.
- 2018-2020: TRAIN – Trentino Autism Initiative. University of Trento Strategic Project Research Grant. Project coordinator. Budget: 180,000 €.
- 2018-2022: BACKUP - Unveiling the relationship between brain connectivity and function by integrated photonics. ERC Advanced Grant, PI Prof. Lorenzo Pavesi (Department of Physics, University of Trento). Role in the project: collaborator. Budget: 2.500.000 €.
- 2019: INFRAFRONTIER2020 precision mammalian model development. Coordinator of a project for the development of a new genetic mouse model of autism.

## TEACHING ACTIVITY

### Lecture courses

- February 1993: Seminars on "Neurotrophic Factors", Course of Animal Cytology, MSc in Biological Sciences, University of Pisa (6 hours).
- May 1993: Laboratory of Molecular Biology, MSc in Biological Sciences, University of Pisa (6 hours).
- February 1995: Seminars on "Neurotrophic Factors", Course of Animal Cytology, MSc in Biological Sciences, University of Pisa (6 hours).
- May 1995: Laboratory of Molecular Biology, MSc in Biological Sciences, University of Pisa (6 hours).
- June 2002 – April 2010 member of the Teaching Committee ("Consiglio dei Docenti") of the Ph.D. in Basic and Developmental Neurosciences, University of Pisa.
- April-May 2003: on-contract Professor (University of Pisa). Master degree ("Laurea Vecchio Ordinamento") in Biological Sciences and Bachelor Degree ("Laurea Triennale") in Biomolecular Sciences. Integrative course "Regulation of gene expression in the central nervous system" (20 hours; official course "Molecular Biology 2"; SSD BIO-09/BIO-11).
- 2004: Teacher of Laboratory Safety Course, CNR Institute of Neuroscience, Pisa.
- April-May 2004: on-contract Professor (University of Pisa). Master degree ("Laurea Vecchio Ordinamento") in Biological Sciences and Bachelor Degree ("Laurea Triennale") in Biomolecular Sciences. Integrative course "Regulation of gene expression in the central nervous system" (20 hours; official course "Molecular Biology 2"; SSD BIO-09/BIO-11).
- December 2004: on-contract Professor (University of Pisa). Master degree (Laurea Specialistica) in Neurobiology. Integrative course "Epigenetic factors in nervous system development" (10 hours; official course "Development and differentiation of the nervous system"; SSD BIO-06/BIO-09).
- March-June 2005: on contract Professor (University of Pisa). Bachelor Degree (Laurea Triennale) in Biomolecular Sciences. Official course "Biologia Molecolare 2" (40 hours; SSD BIO-11).
- December 2005: on-contract Professor (University of Pisa). Master degree (Laurea Specialistica) in Neurobiology. Integrative course "Epigenetic factors in nervous system development" (10 hours; official course "Development and differentiation of the nervous system"; SSD BIO-06/BIO-09).
- May 2006: on-contract Professor (University of Pisa). Master degree ("Laurea Vecchio Ordinamento") in Biological Sciences and Bachelor Degree ("Laurea Triennale") in Biomolecular Sciences. Integrative course "Regulation of gene expression in the central nervous system" (10 hours; official course "Molecular Biology 2"; SSD BIO-09/BIO-11).

- March-June 2007: on contract Professor (University of Pisa). Bachelor Degree (Laurea Triennale) in Biomolecular Sciences. Official course "Biologia Molecolare 2" (40 hours; SSD BIO-11).
- March-June 2008: on contract Professor (University of Pisa). Bachelor Degree (Laurea Triennale) in Biomolecular Sciences. Official course "Biologia Molecolare 2" (40 hours; SSD BIO-11). *Evaluated as the 2<sup>nd</sup> best class (out of a total of 56).*
- September-October 2009: seminar series, Developmental Biology Course. Bachelor Degree ("Laurea Triennale") in Biomolecular Sciences and Technologies, University of Trento (6 hours, SSD BIO-06).
- 2009-2010: Laboratory Safety Course (2 hours), Ph.D. School in Biomolecular Sciences, University of Trento.
- April 2010-March 2017: member of the Teaching Committee ("Consiglio dei Docenti"), Ph.D. School in Biomolecular Sciences, University of Trento.
- May 2010-present: on-contract Professor (University of Trento). Science Communication Course (12 hours).
- 2010-2011: Laboratory Safety Course (2 hours), Ph.D. School in Biomolecular Sciences, University of Trento.
- September 2010 – September 2013: on-contract Professor (University of Trento). Course of Physiology, Bachelor Degree ("Laurea Triennale") in Biomolecular Sciences and Technologies, Faculty of Sciences (3<sup>rd</sup> year, 86 hours, 9CFU, SSD BIO-09). *Evaluated as the 1<sup>st</sup> best class in academic year 2011-2012.*
- September 2010 – September 2013: on-contract Professor (University of Trento). Course of Neurobiology and Molecular Neuropathology, Bachelor Degree ("Laurea Triennale") in Biomolecular Sciences and Technologies, Faculty of Sciences (2<sup>nd</sup> module, 27 hours, 3 CFU, SSD BIO-09).
- February-May 2013: on-contract Professor (University of Trento). Course of Animal models for human pathologies (lab module), Master Degree in Cellular and Molecular Biotechnology, CIBIO (10 hours, 1 CFU).
- September 2013 - September 2014: on-contract Professor (University of Trento). Course of Organism Biology (module of physiology of nervous and endocrine systems), Bachelor Degree ("Laurea Triennale") in Biomolecular Sciences and Technologies (CIBIO) (1<sup>st</sup> year, 18 hours, 2 CFU).
- September 2013 – January 2017: on-contract Professor (University of Trento). Course of Molecular Physiology, Bachelor Degree ("Laurea Triennale") in Biomolecular Sciences and Technologies, (CIBIO) (3<sup>rd</sup> year, 56 hours, 6 CFU, SSD BIO-09).
- March 2017-present: member of the Teaching Committee ("Consiglio dei Docenti"), Ph.D. School in Cognitive and Brain Sciences, University of Trento.
- September 2017 – present. Course of Neural Foundations of Human Behaviour, Master Degree in Cognitive Sciences, CIMEC (1<sup>st</sup> year, 42 hours, 6 CFU, SSD BIO-09).
- September 2017 – present. Course of Neurobiology of Brain Disorders, Master Degree in Cognitive Sciences, CIMEC (free choice course, 1<sup>st</sup> / 2<sup>nd</sup> year, 24 hours, 3 CFU, SSD BIO-09). *Evaluated as the 3<sup>rd</sup> best class of year 2017-2018.*
- February 2018 – present. Course of Developmental Neuroscience, Master Degree in Cognitive Sciences, CIMEC (free choice course, 1<sup>st</sup> / 2<sup>nd</sup> year, 42 hours, 6 CFU, SSD BIO-09). *Evaluated as 1<sup>st</sup> best class of year 2017-2018.*

**External referee, Master Degree Thesis in Biological Sciences, University of Pisa**

- 2004: Riccardo Parra, Sara Miglarini
- 2005: Francesca Benini, Mario Mazzantini, Serena Brugali
- 2006: Giulia Pacini, Chiara Cerri
- 2008: Simone Macrì

**External referee, Bachelor Degree Thesis in Biomolecular Science and Technology, Univ. of Trento**

- 2011: Simone Bridi, Roberta Eccheli, Simone Adami, Luca Barbon
- 2012: Stefania Chiochetti, Marco Santin
- 2013: Silvia Lucchi
- 2014: Andrea Zeni, Simone Detassis, Stephanie Roilo, Stefano Casari, Dennis Pedri

**External referee, Master Degree Thesis in Cellular and Molecular Biotechnology, Univ. of Trento**

- 2015: Federica Costa, Matteo Caumo
- 2016: Maria Paulina Castelo Rueda, Alice Macchia
- 2017: Mastad Ahmed, Antonio Vitelli, Angela Bonadiman

**External referee, Master Degree Thesis in Psychology, Univ. of Trento**

- 2018: Mattia Zanzi, Samantha Pedrana

**Member of Bachelor/Master degree committees**

- Academic years 2004-2006: evaluation committees, Master Degree in Biological Sciences, University of Pisa.
- Academic years 2010-2017: evaluation committee, Bachelor Degree in Biomolecular Sciences and Technologies, University of Trento.
- Academic years 2016-2017: evaluation committees, Master Degree in Cognitive Sciences and Master Degree Thesis in Cellular and Molecular Biotechnology, University of Trento.
- Academic years 2017-2018: evaluation committees, Master Degree in Psychology, University of Trento.

**External referee, PhD thesis**

- July 2005: Padmanabhan Pattabiraman. "Developmental and activity-dependent cortical regulation of TrkB ligands: BDNF and NT4/5". PhD in Cognitive Neuroscience, S.I.S.S.A, Trieste, Italy.
- July 2005: Laura Costantin "Antiepileptic effects of Botulinum Neurotoxin E". PhD in Neurobiology, Scuola Normale Superiore, Pisa, Italy.
- September 2008: Laura Restani. "Role of the callosum in visual cortex development and plasticity". PhD in Neurobiology, Scuola Normale Superiore, Pisa, Italy
- October 2016: Fabio Vallone, "Time series analysis and modeling for preclinical studies of neuroplasticity in normal and pathological brain condition". PhD in BioRobotics, Scuola Superiore Sant'Anna, Pisa, Italy.

**Member of PhD evaluation committees**

- Nov 2002: evaluation committee, admission to the Phd in Neurobiology, Scuola Normale Pisa.
- Dec 2003: evaluation committee, admission to the Phd in Neurobiology, Scuola Normale Pisa.
- Dec 2003: evaluation committee, admission to the 2<sup>nd</sup> and 3<sup>rd</sup> year of Phd in Neurobiology, Scuola Normale Pisa.
- Dec 2004: evaluation committee, admission to the Phd in Neurobiology, Scuola Normale Pisa.
- 2003: evaluation committee, defence of Phd thesis in Neurobiology, Scuola Normale Pisa (candidate: L. Gianfranceschi).
- Mar 2004: evaluation committee, defence of Phd thesis in Neurobiology, Scuola Normale Pisa (candidate: P. Medini).
- Apr 2004: evaluation committee, defence of Phd thesis in Neurobiology, Scuola Normale Pisa (candidate: S. Naska).
- July 2005: evaluation committee, defence of Phd thesis in Neurobiology, Scuola Normale Pisa (candidates: F. Madeddu, G. Mandolesi, A. Bartoletti, L. Costantin).
- Apr 2006: evaluation committee, defence of Phd thesis in Neurobiology, Scuola Normale Pisa (candidate: D. Valenzano).
- June 2018: evaluation committee, admission to the Phd in Cognitive Sciences, CIMeC University of Trento.

**Member of Professor evaluation committees**

- June 2018: evaluation committee, selection for a Full Professor in Physiology, Dept Biomedical and Metabolical Sciences and Neuroscience, University of Modena-Reggio Emilia, Italy.
- October 2018: evaluation committee, selection for a fixed-term Researcher (RTD-A) in Physiology, Dept Physics, Univ. Trento, Italy.

**TUTOR ACTIVITY**

**Bachelor and Master students (thesis internship)**

- Stefania Castellano (Biology, Univ. Pisa). Degree obtained October 2005, mark 110/110.
- Manuela Scali (Biomolecular Sciences, Univ. Pisa) Degree obtained Febr. 2006, mark 110/110 cum laude; Master degree obtained December 2007, mark 110/110 cum laude.
- Elisa Brilli (Master degree, Biomolecular Sciences, Univ. Pisa) Degree obtained May 2006, mark 110/110 cum laude.
- Francesca Macchi (Biomol. Sci., Univ. Pisa) Degree obtained May 2006, mark 110/110 cum laude.
- Ilaria Manno (Master Degree, Biotechnology, University of Lecce). Degree obtained October 2006, mark 110/110 cum laude.
- Giorgia Carrieri (Biomol. Sci., Univ. Pisa) Degree obtained March 2007, mark 100/110.
- Elena Sanguinetti (Biomolecular Sciences, Univ. Pisa) Degree obtained Dec. 2008, mark 110/110 cum laude.
- Manuela Allegra (Master degree, Biomolecular Sciences, Univ. Pisa) Degree obtained Dec 2009, mark 110/110 cum laude.
- Giulia Santorufo (Master degree, Biomolecular Sciences, Univ. Pisa) Degree obtained June 2010, mark 110/110 cum laude.
- Roberto Arsiè (Biomolecular Science and Technology, Univ. Trento) Degree obtained July 2011, mark 110/110 cum laude.
- Stefano Calovi (Biomolecular Science and Technology, Univ. Trento) Degree obtained September 2011, mark 102/110.
- Martin Centola (Biomolecular Science and Technology, Univ. Trento) Degree obtained December 2011, mark 100/110.
- Ilaria Zanella (Biomolecular Science and Technology, Univ. Trento) Degree obtained March 2012, mark 100/110.

- Elena Clementi (Biomolecular Science and Technology, Univ. Trento) Degree obtained September 2012, mark 110/110 cum laude.
- Valentina Simoni (Biomolecular Science and Technology, Univ. Trento) Degree obtained September 2012, mark 108/110.
- Marika Maggia (Biomolecular Science and Technology, Univ. Trento) Degree obtained January 30, 2013, mark 109/110.
- Luca Pangrazzi (Biomolecular Sciences, Univ. Milano-Bicocca) Degree obtained February 26, 2013, mark 110/110 cum laude.
- Fabiana Crò (Biomolecular Science and Technology, Univ. Trento) Degree obtained September 27, 2013, mark 98/110.
- Alice Migazzi (Biomolecular Science and Technology, Univ. Trento) Degree obtained September 27, 2013, mark 110/110.
- Mattia Pernigo (Master Medical Biotechnology – Univ. Verona). Degree obtained December 11, 2013, mark 97/110.
- Ivan Zadra (Biomolecular Science and Technology, Univ. Trento) Degree obtained January 29, 2014, mark 100/110.
- Davide Sereni (Biomolecular Science and Technology, Univ. Trento) Degree obtained July 2014, mark 103/110.
- Camilla Robol (Biomolecular Science and Technology, Univ. Trento) Degree obtained July 2014, mark 110/110.
- Elena Clementi (Master Biomolecular Sciences, Univ. Trento) Degree obtained October 2014, mark 110/110 cum laude.
- Marco Cazzola (Biomolecular Science and Technology, Univ. Trento) Degree obtained March 25, 2015, mark 98/110.
- Marianna Decet (Biomolecular Science and Technology, Univ. Trento) Degree obtained March 25, 2015, mark 99/110.
- Eloina Corradi (Master in Biomolecular Science and Technology, Univ. Trento) Degree obtained July, 2015, mark 110/110 cum laude.
- Andrea Grigoli (Biomolecular Science and Technology, Univ. Trento) Degree obtained September 2015.
- Giulia Santoni (Biological Sciences, Univ. Firenze). Degree obtained September 2015.
- Zelia Corradi (Biomolecular Science and Technology, Univ. Trento). Degree obtained 18 July 2016.
- Katia Monsorno (Biomolecular Science and Technology, Univ. Trento). Degree obtained 18 July 2016, mark 110/110 cum laude.
- Angela Gilardoni (Master Molecular Cellular Biotechnology, Univ. Trento). Degree obtained 25 October 2016.
- Camilla Robol (Master Molecular Cellular Biotechnology, Univ. Trento). Degree obtained 25 October 2016, mark 110/110 cum laude.
- Davide D'Angelo (Biomolecular Science and Technology, Univ. Trento). Degree obtained November 2016.
- Luca Cimino (Biomolecular Science and Technology, Univ. Trento). Degree obtained March 2017.
- Silvia Miorelli (Biomolecular Science and Technology, Univ. Trento). Degree obtained March 2017.
- Mattia Gadler (Biomolecular Science and Technology, Univ. Trento). Degree obtained October 2017.
- Andrea Grigoli (Master Molecular Cellular Biotechnology, Univ. Trento). Degree obtained 25 October 2017, mark 102/110.
- Matilde Negrini (Master Molecular Cellular Biotechnology, Univ. Trento). Degree obtained December 2017, mark 110/110 cum laude.
- Francesco Libera (Master in Neuroscience, Univ. Trento). Degree obtained 11 October 2018, mark 109/110.
- Lorenzo Mattioni (Master Molecular Cellular Biotechnology, Univ. Trento). Degree expected October 2019
- Francesca Viscido (Master Cognitive Sciences, Univ. Trento). Degree expected October 2019

**Bachelor and Master students (stage)**

- Giuseppe Berardi (2<sup>nd</sup> year student from the School of Medicine, University of Cagliari, Italy): laboratory training stage, February-June 2015.
- Luca Liberatore (Master student in Philosophy, University of Trento, Italy). Stage for the preparation of a manuscript on "Philosophy and Darwinism", Febr-May 2016.
- Luca Liberatore (Master student in Philosophy, University of Trento, Italy). Stage for the preparation of a public conference for the 2017 Darwin Day on "Philosophy and Darwinism", Jan-Febr 2017.
- Silvia Bronzoni. Post-graduate stage in Experimental Psychology (Dept. Psychology and Cognitive Sciences, Univ. Trento), April-October 2018.
- Lorenzo Bazan (Student in Medicine, Scuola Sant'Anna, Pisa). Laboratory stage, 3-18 september 2018.
- Davide Dall'Acqua. Post-graduate stage in Experimental Psychology (Dept. Psychology and Cognitive Sciences, Univ. Trento), October 2018-April 2019.

#### **PhD students**

- Jan 2000 – March 2004: Federico Madeddu. PhD in Neurobiology, Scuola Normale Superiore, Pisa (degree obtained July 2005, mark 70/70 cum laude).
- Jan 2004 – Dec 2006: Vladimir Voccoli. PhD in Basic and Developmental Neuroscience, University of Pisa (degree obtained 2007; mark: approved). (co-tutor)
- Jan 2005 – Mar 2008: Flavia Antonucci. PhD in Basic and Developmental Neuroscience, University of Pisa (degree obtained March 2008; mark: approved).
- Jan 2007 – Oct 2010: Prem Prakash Tripathi. PhD in Neurobiology, Scuola Normale Superiore, Pisa (degree obtained October 2010, mark 70/70 cum laude).
- Jan 2007– Dec 2009: Davide Silingardi. PhD in Basic and Developmental Neuroscience, University of Pisa (degree obtained 2010; mark: approved). (co-tutor)
- Febr 2010 – Febr 2015: Giulia Zunino. PhD in Biomolecular Sciences, Univ. Trento. (degree obtained February 17, 2015; mark "approved cum laude").
- Nov 2018 – Nov 2022: Luigi Balasco. PhD in Cognitive Sciences, Univ. Trento.

#### **Postdocs**

- Feb 2009-Aug 2009: Francesca Macchi (IN-CNR, Pisa).
- Sept 2010 – April 2012: Mark Dunleavy (CIBIO, UniTN, Trento).
- June 2009 – Dec 2014: Paola Sgadò (CIBIO, UniTN, Trento).
- June 2010 – Dec 2014: Sacha Genovesi (CIBIO, UniTN, Trento).
- Sept 2010 – Dec 2016: Giovanni Provenzano (CIBIO, UniTN, Trento).
- Febr 2015 – June 2015: Giulia Zunino (CIBIO, UniTN, Trento).
- July 2015 – July 2016: Angela Bozza (CIBIO, UniTN, Trento).
- Jan 2016 – June 2016: Camilla Boschian (CIBIO, UniTN, Trento).
- March 2016 – July 2016: Gabriele Chelini (CIBIO, UniTN, Trento).
- May 2016 – July 2016: Bartolomeo Bosco (CIBIO, UniTN, Trento).
- 2016-2017: Marta Biagioli (CIBIO, UniTN, Trento). EU project 706567 – TransSplicHD

#### **High school students**

- 10-22 Jan 2005: Giacomo Ciucci (stage at Institute of Neuroscience, from Liceo Scientifico Tecnologico, Lucca, Italy).
- 11-18 April 2012: Francesca Notta (stage at CIBIO, from Liceo Scientifico Torricelli, Bolzano, Italy).
- 3-14 September 2012: Francesca Lever (summer stage at CIBIO, from Istituto Tecnico per il Turismo Gardaschool, Arco, TN, Italy).
- 6-17 June 2016: Nina Desiato (summer stage at CIBIO, from Istituto Gandhi, Merano, Italy).

#### **ORAL COMMUNICATIONS AT NATIONAL/INTERNATIONAL MEETINGS**

- May 1993: "Monocular deprivation regulates BDNF mRNA expression in the rat visual cortex", Workshop Capalbio Gruppo di Cooperazione Struttura Molecolare ed Espressione del Gene, May 1993.
- September 1993: "Monocular deprivation regulates BDNF mRNA expression in the rat visual cortex", XI congresso ABCD, Milano 16-19 September 1993.
- July 1999: Speaker at the "3rd Postgraduate Course in Molecular and Cellular Endocrinology" (European Federation of Endocrine Societies, Munster, Germany).
- Oct. 2000: "Neuroprotective role of dopamine against hippocampal cell death" Third Neurobiology Conference "Molecular and Cellular Mechanisms of Brain Repair", Torino, Italy.
- Febr. 2002: "Isolation of novel genes Involved in BDNF-mediated neuroprotection" Convegno NEUROSCIENZE MOLECOLARI ABCD, Roma.
- Apr. 2005: "Branched chain aminotransferase (BCATc) is a novel gene induced by BDNF in astrocytes following CNS lesion: a role of glutamate metabolism in BDNF-mediated neuroprotection?" International Symposium "Neuroplasticity, neurotrophic factors and mood disorders". Pisa 8-9 April 2005.
- July 2005: "Antiepileptic effects of botulinum neurotoxin E" III conference on epileptogenesis, San Servolo, Venice, July 28-30, 2005.

- Nov. 2005: "Antiepileptic and neuroprotective effects of intracerebral delivery of Botulinum Toxin E in an animal model of temporal lobe epilepsy" Fondazione Mariani Symposium, EACD meeting, Montecarlo November 19, 2005.
- March 2006: "Botulinum neurotoxin E: a new tool to interfere with epileptogenesis? 8th Neuroscience Winter Conference, Solden, Austria.
- July 2006: "Anticonvulsant effects of Botulinum neurotoxin E" 7<sup>th</sup> European Congress of Epileptology, Helsinki, Finland.
- December 2007: "Botulinum Neurotoxin E (BoNT/E) prevents granule cell dispersion but not epileptogenesis in a mouse model of temporal lobe epilepsy". American Epilepsy Society, Philadelphia, USA.
- February 2008: "Brain development, genes and epilepsy". Course on the genetics of epilepsy. Fondazione Mariani and School for Neurological Sciences, San Servolo (Venice, Italy).
- April 2008: "Role of dopamine and serotonin in seizure susceptibility: insights from mutant mice", 10th Neuroscience Winter Conference, Solden, Austria.
- September 2008: "Serotonin hyper-innervation abolishes seizure susceptibility in Otx2 conditional mutant mice". European Congress on Epileptology, Berlin, Germany.
- June 2009: "Role of Otx2 and En2 genes in seizure susceptibility", Spring Hippocampal Research Conference, Verona, Italy
- May 2011: "Dysfunction of GABAergic interneurons in En2 knockout mice" Spring Hippocampal Research Conference, Verona, Italy.
- June 2011: "Dysfunction of GABAergic interneurons in En2 knockout mice" Autism workshop, CNR Neuroscience Institute, Pisa, Italy.
- July 2011: "Gene expression profiling of forebrain areas in mouse model of autism". IBRO Congress, Firenze, Italy.
- September 2012: "Molecular basis of neurodevelopmental disorders: the role of GABAergic interneurons". Summer School "Neural stem cells in development and disease", Levico Terme (Trento, Italy).
- April 2013: "The Engrailed 2 mouse model of autism". 15<sup>th</sup> Neuroscience Winter Conference, Solden, Austria.
- November 2013: "Transcriptome profiling of the Engrailed 2 mouse model of autism: common pathways associated with ASD". BIOBASH workshop, Genialis-Fondazione Bruno Kessler, Trento, Italy. Video available at <https://www.genialis.com/tag/yuri-bozzi/>.
- July 2014: "Interneurons and epilepsy". Summer School on Interneurons, University of Amsterdam, The Netherlands.
- October 2015: "Convergent signaling pathways altered in different mouse models of ASD", workshop "Autism Spectrum Disorders: developmental trajectories, neurobiological basis, treatment update", Siena (Italy).
- January 2016: "Altered BDNF signaling in Engrailed2 knockout mice". Final workshop of the PRIN2010/JN-BDNF consortium, Monte Bondone (TN), Italy.
- September 2016: "Interneuron dysfunction in the somatosensory cortex of Engrailed2 knockout mice". Annual retreat of the CNR Neuroscience Institute, Padova, Italy.
- October 2016: "Interneuron dysfunction in the somatosensory cortex of Engrailed2 knockout mice". 2nd Workshop "Autism Spectrum Disorders: developmental trajectories, neurobiological basis, treatment update", Siena (Italy).
- December 2016: "Comparative studies in mouse models: a strategy to understand the genetic complexity of autism". 2<sup>nd</sup> Congress of the Italian Association for Autism research (AIRA), Rome, Italy.
- March 2017: "Neurobiological bases of autism spectrum disorders". Workshop "Le neuroscienze tra clinica e ricerca", Rovereto, Italy. <https://www.youtube.com/watch?v=kjltNv5Lrks>
- Feb 2019 "My experience as an IMI reviewer". CIBIO workshop "Funding strategy: from fundamental to translational science", University of Trento, Italy
- Feb 2019 "Defensive response to whisker stimulation and reduced somatosensory cortex activation in the Engrailed-2 mouse model of autism". Italy at INSAR workshop, Cernobbio - Como, Italy
- Apr 2019 "Somatosensory defects in mouse models of neurodevelopmental disorders" 2<sup>nd</sup> CIMeC-KAIST joint symposium, Rovereto, Italy.

#### INVITED SEMINARS

- March 1995: "Neurotrophins in the rat visual system: expression and mechanism of action" (Istituto di Neurobiologia del CNR, Rome, Italy. Host Prof. P. Calissano).



- May 1995: "Neurotrophins in the rat visual system: expression and mechanism of action" (Institut Pasteur, Paris, France. Host Prof. J.P. Changeux).
- Dec. 1995: "Neurotrophins in the rat visual system: expression and mechanism of action" (Istituto di Farmacologia del CNR, Milan, Italy. Host Prof. F. Clementi).
- Dec. 1996: "Neurotrophins and the dopaminergic system" (Istituto di Neurofisiologia del CNR, Pisa, Italy. Host Prof. L. Maffei).
- Dec. 1997: "Dopamine D2 receptor knockout mice as a model to study CNS and neuroendocrine pathologies" (Dipartimento di Neuroscienze, Università di Cagliari, Italy. Host Prof. G.L. Gessa).
- July 1999: "Dopamine D2 receptor knockout mice as a model to study CNS and neuroendocrine pathologies" (Neurological Clinic, Tübingen Univ., Germany. Host Prof. M. Baehr).
- June 2000: "Dopamine D2 receptor knockout mice: a model to study epilepsy-induced neurodegeneration" (Istituto Tigem, Milan, Italy. Host Dr. A. Servadio).
- March 2001: "Gene expression regulation in CNS death and survival" (Scuola Normale Superiore, Pisa, Italy. Host Prof. L. Maffei).
- March 2002: "Molecular biology techniques to study single neuron properties" (Scuola Normale Superiore, Pisa, Italy. Host Prof. L. Maffei).
- March 2002: "Neuroprotective role of dopamine against epilepsy-induced neuronal cell death" (Farmacologia, Università di Pisa, Italy. Host Prof. G.U. Corsini).
- Jan. 2003, Jan. 2004: "Antiepileptic effects of botulinum neurotoxin" (Scuola Normale Superiore, Pisa, Italy. Host Prof. L. Maffei).
- Jan. 2005: "Molecular mechanisms of epileptogenesis" (Scuola Normale Superiore, Pisa, Italy. Host Prof. L. Maffei).
- June 2005: "Antiepileptic effects of botulinum neurotoxin" (SISSA, Trieste, Italy. Host Prof. L. Domenici).
- Nov. 2005: "Expression of branched-chain aminotransferase (BCAT) in the rodent brain" (GlaxoSmithKline, Verona, Italy. Host Dr. E. Domenici).
- Dec. 2005: "Turning a toxin into a potentially therapeutic drug: antiepileptic effects of botulinum neurotoxin" (IGBMC, Strasbourg, France. Host Dr. E. Borrelli).
- Jan. 2006: "Cytoplasm-to-nucleus transport alterations in hippocampal neurons during epileptogenesis" (Scuola Normale Superiore, Pisa, Italy. Host Prof. L. Maffei).
- May 2006: "Turning a toxin into a potentially useful drug: anticonvulsant effects of botulinum neurotoxin" (Royal College of Surgeon in Ireland MCT seminar series, Dublin, Ireland. Host: Prof. J. Waddington).
- Nov. 2006: "Antiepileptic effects of botulinum neurotoxin" (Facoltà di Medicina, Università de L'Aquila, Italy. Host Prof. L. Domenici).
- Jan. 2007: "Development of epilepsy under blockade of synaptic activity" (Scuola Normale Superiore, Pisa, Italy. Host Prof. L. Maffei).
- Dec. 2007: "Botulinum Neurotoxin E (BoNT/E) prevents granule cell dispersion but not epileptogenesis in a mouse model of temporal lobe epilepsy" (Dept Human Genetics, School of Medicine, Univ Michigan, Ann Arbor, USA. Host Prof. M. Meisler).
- Febr. 2008: "Role of dopamine in epilepsy: insights from mutant mice" (CIBIO, Univ. Trento, Italy. Host: Prof. A. Quattrone).
- Febr. 2008: "Role of dopamine in epilepsy: insights from mutant mice" (Scuola Normale Superiore, Pisa, Italy. Host Prof. L. Maffei).
- March 2008: "Role of dopaminergic and serotonergic systems in epilepsy" (Dipartimento di Fisiologia e Biochimica, Univ. Pisa, Italy. Host Prof. M. Brunelli).
- Oct. 2008: "The role of dopamine (and serotonin) in seizure susceptibility: insights from Otx2 and Engrailed mutant mice" (Institute of Developmental Genetics, Helmholtz Center, Munich, Germany. Host Prof. W. Wurst).
- May 2011: "Dysfunction of GABAergic interneurons in En2 knockout mice" (Dipartimento di Anatomia, Facoltà di Medicina, Univ. Verona, Italy. Host Prof. P. Fabene).
- May 2012: "Dysfunction of GABAergic interneurons in En2 knockout mice" (Dipartimento di Neuroscienze, Istituto Italiano Tecnologia (IIT), Genova, Italy. Host Prof. F. Benfenati / Dr. P. Medini).
- July 2013: "GABAergic dysfunction in the Engrailed 2 mouse model of autism" (Children's Hospital, Kirby Neurobiology Research Centre, Harvard University, Boston. Host. Dr. M. Fagiolini).

- March 2014: "GABAergic dysfunction in the *Engrailed 2* mouse model of autism" (Cell Biology Section, Department of Biology, University of Pisa. Host. Dr. M. Ori).
- September 2014: "GABAergic dysfunction in the *Engrailed 2* mouse model of autism" (CIMEC – Mind Brain Center, Univ. Trento, Italy. Host Prof. G. Vallortigara).
- December 2014: "Mouse genetic models of autism and epilepsy" (University Milano Bicocca, Milano, Italy. Host Prof. S. Nicolis).
- December 2014: "En2 knockout mice as a model to study autism spectrum disorders" (Humanitas Research Center, Milano, Italy. Host Prof. M. Matteoli).
- January 2015: "Interneurons in neurodevelopmental disorders" (University La Sapienza, Rome, Italy. Host Prof. A. Tata).
- April 2015: "GABAergic dysfunction in the *Engrailed 2* mouse model of autism" (Hospital for Sick Children, University of Toronto. Hosts Profs. Freda Miller and David Kaplan).
- November 2016: "The experience of an H2020 evaluator: main suggestions on how to draft a proposal". Open day on H2020 grant submission organized by the Research Support Office of University of Trento (Host Dr. Laura Paternoster).
- March 2018: "Aberrant sensory processing and connectivity in the *Engrailed-2* mouse model of autism". CNR Neuroscience Institute (Milan, Italy. Host Dr. Bice Chini).
- April 2018: "Aberrant sensory processing and connectivity in the *Engrailed-2* mouse model of autism". Trinity College Institute of Neuroscience (Dublin, Ireland. Host Dr. Daniela Tropea).
- May 2018: "Aberrant sensory processing and connectivity in the *Engrailed-2* mouse model of autism". University of Groningen (The Netherlands. Host Prof. Martien Kas).
- June 2018: "Aberrant sensory processing and connectivity in the *Engrailed-2* mouse model of autism". CIBIO - University of Trento, Neurobiology Area Meeting (Host Prof. Giovanni Piccoli).
- Jan 2019: "Aberrant sensory processing and connectivity in the *Engrailed-2* mouse model of autism". Center for Epigenetics and Metabolism - University of California, Irvine, US (Host Prof. Emilliana Borrelli).
- Jan 2019: "BACKUP: hybrid circuits to control neuronal excitability in epilepsy". BACKUP kickoff meeting, University of Trento (Host. Prof. Lorenzo Pavesi).
- Jan 2019: "Aberrant sensory processing and connectivity in the *Engrailed-2* mouse model of autism". Italian Institute of Technology - IIT, Genova, Italy (Host Prof. Stefano Gustincich).
- May 2019: "Aberrant sensory processing and connectivity in the *Engrailed-2* mouse model of autism". Institute for Biomedical Aging Research, University of Innsbruck, Innsbruck (Host Dr. Luca Pangrazzi).
- May 2019: "Neurobiology of the autism spectrum disorder". "Bridging the clinics to the bench" Seminar Series, CIBIO, University of Trento (Host Dr. Manuela Basso and Dr. Bruno Giometto).

#### PARTICIPATION TO PRACTICAL/THEORETICAL COURSES

- 13-14 June 1991 International Lecture Course "Neurobiology and the Unity of Biological Sciences", Scuola Normale Pisa, Italy.
- 13-24 July 1992: Practical Course "Computer Application in Molecular Biology" ICGEB, Trieste, Italy.
- 2-8 July 1995: Theoretic Course "Developmental and functional aspects of human brain". Organized by University of Trieste/University of Udine, Cividale del Friuli (Udine, Italy).
- 17-20 November 2014. EMBO Laboratory Management Course, Heidelberg, Germany.

#### OTHER SCIENTIFIC ACTIVITIES

##### *Editorial activity*

- Since Jan 1, 2012: Editorial Board Member, "Neuroscience" (official journal of the International Brain Research Organization IBRO).
- June 1, 2012 - February 28, 2014: Editorial Board Member, "ISRN Neuroscience" <http://mts.isrn.com>
- April 10, 2013 - February 19, 2014: Editorial Board Member, "Journal of Intellectual Disability Diagnosis and Treatment".
- Since Jan 1, 2014 (until December 31, 2019): Section Editor "Neuroscience" (official journal of the International Brain Research Organization IBRO).

- 2014: Guest Editor (with Dr. Roberto Canitano), *Frontiers in Pediatrics - Child and Neurodevelopmental Psychiatry Research* Topic "New treatment perspectives in autism spectrum disorders".
- 2015: Editor (with Dr. Roberto Canitano), *Frontiers eBook* "New treatment perspectives in autism spectrum disorders".
- Since March 13, 2015: member of the Consulting Editors Board of *Epilepsy Research*.
- 2015: Guest Editor (with Dr. Roberto Canitano), *Frontiers in Psychiatry - Research Topic* "Autism Spectrum Disorders: developmental trajectories, neurobiological basis, treatment update".
- 2017: Editor (with Dr. Roberto Canitano), *Frontiers eBook* "Autism Spectrum Disorders: developmental trajectories, neurobiological basis, treatment update".
- Since Sept 22, 2016: Editorial Board Member, "*Journal of Neurodevelopmental Disorders*" (BioMed Central).
- Since April 26, 2018: Review Editor, *Frontiers in Molecular Neuroscience*.
- 2018: Guest Editor (with Dr. Roberto Canitano and Dr. ), *Frontiers in Psychiatry - Research Topic* "Second edition: Autism Spectrum Disorders: developmental trajectories, neurobiological basis, treatment update".
- Since February 28, 2019: Associate Editor, *Frontiers in Molecular Neuroscience*.

***Reviewer for international journals***

- Since 2003: *European Journal of Neuroscience*, *Nutritional Neuroscience*
- Since 2005: *Nature Neuroscience*
- Since 2006: *Epilepsia*
- Since 2007: *Aging Clinical Experimental Research*, *Journal of Neuroscience Research*, *Brain Research*, *Neurological Sciences*, *Restorative Neurology and Neuroscience*
- Since 2008: *Nature Medicine*, *Neuroscience*, *Neuroscience Letters*, *Regulatory Peptides*, *Experimental Neurology*
- Since 2009: *Journal of Neural Transmission*, *Epilepsy Research*, *FASEB Journal*, *American Journal of Pathology*, *BMC Neuroscience*
- Since 2010: *Molecular and Cellular Neuroscience*, *Cerebral Cortex*
- Since 2011: *Journal of Biological Chemistry*, *Neural Plasticity*, *Autism Research*, *Cell Death and Disease*, *PLoS One*
- Since 2012: *Pharmacological Reports*, *Mini-Reviews in Medicinal Chemistry*, *Neuropharmacology*, *Journal of Neuroscience*, *Neurotoxicity Research*, *AGE (Journal of American Aging Association)*, *Neurochemistry International*, *Archives Italiennes de Biologie*, *ISRN Neuroscience*
- Since 2013: *European Neuropsychopharmacology*, *Epilepsy Research and Treatment*, *Biological Psychiatry*, *Neurotherapeutics*, *Frontiers in Neural Circuits*, *Neurobiology of Disease*, *Intellectual Disability Diagnosis Journal*, *Experimental Gerontology*, *Cellular and Molecular Neurobiology*, *Journal of Neurochemistry*
- Since 2014: *Toxicology and Applied Pharmacology*, *Biomedical Research*, *Cellular and Molecular Life Sciences*, *Hippocampus*, *Neurochemical Research*, *International Journal of Developmental Neuroscience*
- Since 2015: *Frontiers in Neurology*, *Toxicon*, *Brain Sciences*, *Scientific Reports (Nature Publishing Group)*, *PLoS Genetics*, *Nature Communications*
- Since 2016: *Scientific Data (Nature Publishing Group)*, *Oncology Letters*, *Behavioural Brain Research*, *Pharmacology Biochemistry and Behaviour*, *BBA - Molecular Basis of Disease*
- Since 2017: *Frontiers Human Neuroscience*, *The Autism Journal*, *Journal of Neuroinflammation*, *Progress in Neuropsychopharmacology & Biological Psychiatry*, *Molecular Autism*, *Progress in Neurobiology*, *NeuroReport*, *Brain Behaviour and Immunity*, *Brain Sciences*, *European Journal of Neurology*
- Since 2018: *Pharmaceuticals*
- Since 2019: *Cellular & Molecular Biology Letters*, *Reviews in the Neurosciences*, *BJR-British Journal of Radiology*, *Expert Opinion on Drug Discovery*

***Research grant reviewer for national/international funding agencies***

- Fondazione Pierfranco e Luisa Mariani, Italy (2004)
- Health Research Board Ireland (2008-2011)
- Brainwave Ireland (2009, 2011)
- Epilepsy Research UK (2009, 2013)

- Medical Research Council, MRC-UK (2009, 2015)
- EU-FP7 2010 HEALTH Panel Human Aging (remote and consensus panel evaluation, 2010)
- SISSA Young Investigator Award (2011)
- Università di Milano (Italy) evaluation of post-doctoral research contracts ("assegni di ricerca") (2011)
- IMI Innovative Medicine Initiative, EU-Autism Call (remote and consensus panel evaluation, 2011)
- AERES Evaluating Committee (France) (2012)
- Agence Nationale de la Recherche (ANR, France) (2013)
- FIRB "Futuro in Ricerca" (Italian Ministry of Education and Research, MIUR) (2013)
- StrategMed Poland (2013, 2014, 2016)
- CORE Program, Fond National Recherche, Luxembourg (2013)
- PRIN2012 MIUR Italy (2013)
- Human Brain Project – HBP (remote evaluation, 2013)
- Wellcome Trust UK (2014)
- IMI Innovative Medicine Initiative, EUAIMS project interim review (2014)
- SIR-MIUR Italy (2014)
- Wellcome Trust (UK) Sir Henry Dale fellowships (2015)
- IMI-2 call Topic 3 Neuropsychiatry (remote and consensus panel evaluation, 2015)
- The Laura W. Bush Institute for Women's Health / Texas Tech University Health Sciences Center Seed Grant Program (2015)
- Joint Programme - Neurodegenerative Disease Research (JPND) call "European research projects for Cross-Disease Analysis of Pathways related to Neurodegenerative Diseases" (2015-2017), consultant of the Italian Ministry of University and Research (MIUR) for interim and final evaluation of proposed projects
- Medical Research Council (MRC, UK) - Neurosciences & Mental Health Board, Neurology & Neurodegeneration (2015)
- AFR Luxembourg postdoctoral fellowships (2015)
- Open Programme, Netherlands Organisation for Scientific Research (NWO), Earth and Life sciences division (2016)
- Evaluation of Research Quality (VQR 2011-2014) ANVUR – Agency of Research Evaluation of the Italian Ministry of University and research (2016)
- H2020 call SC1-PM-04-2016 "Networking and optimising the use of population and patient cohorts at EU level" (remote and consensus panel evaluation, 2016)
- IMI-2 call Topic 3 Neuropsychiatry (PRISM Project Interim Review, 2016)
- Regione Sardegna Progetti di Ricerca (2017)
- IMI-2 call Topic 3 Neuropsychiatry (PRISM Project Interim Review, 2017)
- IMI-2 call Call 13 Topic 10 Neurotoxicity (remote and consensus panel evaluation, 2018)
- Swiss National Science Foundation (2018)
- Basic Research Projects – University of Verona (Italy, 2018)
- IMI-2 call Call 15 Topic 5 Synaptopathies (remote and consensus panel evaluation, 2018)
- H2020 MCSA fellowship call 2018
- Medical Research Council (MRC, UK), UKRI-JSPS Research Partnerships Call 2018
- Wellcome Trust UN Investigator Award in Science (2019)
- Swedish Research Council, call for Medicine and Health, review panel member (2019-2021)

#### **Organization of congresses and workshops**

- Organizer and "chairman" of the Fourth Conference on Epileptogenesis (Pisa, Italy, May 23-26, 2007).
- Organizer of the International Summer School "Neural stem cells in development and disease", Levico Terme (Trento, Italy), September 4-8, 2012.
- Organizer, 60<sup>th</sup> meeting of the Italian Embryology Group (GEI), Trento June 15-18, 2014.
- Member of Scientific Committee, XVI Congress of the Italian Society of Neuroscience (SINS), Cagliari October 8-11, 2015.
- Organizer and chairman, Workshop "Autism Spectrum Disorders: developmental trajectories, neurobiological basis, treatment update", Siena (Italy), October 16, 2015.
- Organizer of the final workshop of the PRIN2010-11 IN-BDNF consortium, Monte Bondone (Trento, Italy), January 13-15,

- 2016.
- Organizer and chairman, 2<sup>nd</sup> Workshop "Autism Spectrum Disorders: developmental trajectories, neurobiological basis, treatment update", Siena (Italy), 6-7 October 2016.
- Member of organizing committee, Workshop "Ten years of Mind/Brain Sciences at the University of Trento", CIMEC, University of Trento (Italy), 19-21 October 2017.
- Organizer and chairman, 2<sup>nd</sup> CIMEC-KAIST joint symposium, Rovereto, Italy.

#### ***Organization of symposia in national/international congresses***

- Organizer and "chairman" of the Symposium "Epilepsy: from basic research to clinical applications" Congress of the Italian Society of Neuroscience (Pisa, Italy, 26-28 September 2003).
- Organizer and "chairman" of the Symposium "Plastic changes in the epileptic brain", 8<sup>th</sup> Neuroscience Winter Conference (Sölden, Austria, march 2006).
- Organizer and "chairman" of the Symposium "Mechanisms of epileptogenesis and neuronal cell death in temporal lobe epilepsy", Congress of the Italian Society of Neuroscience (Verona, Italy, September 2007).
- Organizer and chairman of the symposium "Developmental and molecular bases of neurological diseases: a focus on dopaminergic neurons and their target structures" (10th Neuroscience Winter Conference, Sölden, Austria, April 2008).
- Organizer and "chairman" of the Symposium "Neurodevelopmental alterations leading to epilepsy", Congress of the Italian Society of Neuroscience (Milano, Italy, October 2009).
- Organizer and "chairman" of the Workshop "Gene expression and transcriptomic approaches to neurological disorders", IBRO Congress (Firenze, Italy, 16 July 2011).
- Organizer and chairman of the symposium "Mutant mouse models of autism spectrum disorders" (15th Neuroscience Winter Conference, Sölden, Austria, April 2013).
- Chairman of the symposium "New Insights on synaptic plasticity and neural connectivity", XVI Congress of the Italian Society of Neuroscience (SINS), Cagliari October 8-11, 2015.

#### ***Memberships of scientific societies***

- International Brain Research Organization (IBRO).
- Italian Society of Neuroscience (SINS). Member of the Directive Council, January 1, 2014 – December 31, 2017.
- Gruppo Embriologico Italiano (GEI).
- Italian League against Epilepsy (LICE). Member of the LICE Basic Epileptology Commission.
- Member of Italian Committee of Full Professors in Physiology (since Sept 1, 2018).

#### ***Organizational activities/responsibilities at research institutions***

- 2001-2008: Responsible for the radioactive laboratory at CNR Neuroscience Institute, Pisa.
- 2010-2013: CIBIO Director's delegate for the planning of the new CIBIO animal house.
- 2010-2016: Responsible for the radioactive laboratory at CIBIO.
- 2017-2019: CIMEC delegate for the quality of teaching and research.

#### **SCIENCE DISSEMINATION ACTIVITIES**

- 1 June and 30 Oct 2002: public conferences on "Genetic mechanisms of neurodegeneration", Pisa, Italy. In collaboration with Telethon Foundation.
- 2002: basic neuroscience lecture course on "Genetic regulation of nervous system development" for high school science teachers, organized in collaboration with the Italian Association Natural Science Teachers (ANISN), Livorno, Italy.
- 2003-2005: science week at CNR Research Area, Pisa, Italy: organization of laboratory guided tours.
- 2003-2004: biomedicine lectures for high school students ("Lezioni Lincee"), Scuola Normale Superiore, Pisa, Italy
- 2004: basic neuroscience lecture courses on "Neural darwinism" for high school science teachers, organized in collaboration with the Italian Association Natural Science Teachers (ANISN), Viareggio, Italy.
- 2004-2008: biology and neurobiology lectures for high school students in various schools in Pisa and Lucca, Italy.

- Nov. 2009: basic neuroscience lecture courses for high school science teachers, organized in collaboration with CIBIO and the Natural Science Museum, Trento, Italy.
- 2009-present: regional coordinator for Trentino-South Tyrol of the "Neuroscience Olympic Games" (Italian phase of the International Brain Bee) for high school students.
- 2010-2011: basic neurobiology lectures for high school students in various schools in Trento and Belluno, Italy.
- 2010-present: coordinator of the CIBIO events organized for the "Researchers' Night" of the University of Trento.
- 24 Sept 2010: speaker at "Science Café", UNITN Researchers' Night, Trento, Italy.
- 15 February 2011: appearance on the TV program "Chi ricerca innova – curarsi in Trentino" (RAI3 Trentino).
- 11-14 April 2011: organizer and speaker at the Science Festival "Apertamente", University of Trento
- Dec 2011 – Jan 2012: lecture courses for high school science teachers "Waiting for the Neuroscience Olympic Games 2012" organized by UniTN, UniTS and Museo Tridentino di Scienze Naturali, Trento.
- 2012-2014: national coordinator of the "Neuroscience Olympic Games" (Italian phase of the International Brain Bee) for high school students (<http://events.unitn.it/olimpiadi-neuroscienze>).
- 2012-2016: organizer of the UniSTEM Day at UniTN, Trento, Italy.
- Sept 2012: author of picture selected for the photo contest "Arte e Scienza", Trieste, Italy.
- October 20, 2012: invited speaker at the Science Festival "Scienziartambiente", Pordenone, Italy.
- Dec 2012 – Jan 2013: lecture courses for high school science teachers "Waiting for the Neuroscience Olympic Games 2013" organized by UniTN, UniTS and Museo Tridentino di Scienze Naturali, Trento.
- 2013-present: biology and neurobiology lectures for high school students in various schools in Trento, Italy.
- 12 June 2013: appearance on the TV program "Ipse dixit" dedicated to Neuroscience (RAI STORIA channel, conductor Viviana Kasam).
- October 15, 2013: speaker at "Scienza dietro le quinte", University of Trento.
- October 25, 2013: speaker at "PensaTresversale", University of Trento.
- November 15-16, 2013: lecture courses for high school teachers "Waiting for the Neuroscience Olympic Games 2014" (Immaginario Scientifico Science Centre, Trieste, Italy).
- Dec 2013 – Jan 2014: lecture courses for high school science teachers "Waiting for the Neuroscience Olympic Games 2014" organized by Museo Civico di Rovereto, Rovereto, Italy. Videos available at <https://www.sperimentarea.tv/ondemand/aspettando-le-olimpiadi-delle-neuroscienze-yuri-bozzi-il-cervello-plastico-una-visione-dinsieme>.
- January 31, 2014: speaker at "PensaTresversale", Liceo Rosmini, Trento.
- March 16, 2014: invited speaker, Brain Forum, Milan, Italy: "Biological basis of autism" –video available on Vimeo at <https://vimeo.com/90593268>
- March 18, 2014: invited speaker, Natural History Museum, Bolzano, Italy.
- May 21, 2014: Science Museum, Trento (MUSE) "Vaccines and autism".
- October 12, 2014. RAI Tg1 Medicina (conductor Manuela Lucchini) – appearance in a TV report on autism research at the University of Trento.
- 25 Sept 2015: speaker at "Science Café", UNITN Researchers' Night, Trento, Italy.
- Jan 2016: organizer and speaker, CLIL project on Biotechnologies (6 hours lectures + 4 hours lab module). Liceo Scientifico G. Galilei, Trento, Italy.
- January – March 2016. Multimedial presentation "Neural Tracks – a musical journey inside the human brain", at the "NEXUS" exposition on robotics, Palazzo Medici-Riccardi, Firenze, Italy (<http://mostre.museogalileo.it/nexus/>), in collaboration with Alessio Ghionzoli (electronic musician).
- 27 November 2016. Multimedial presentation "In search of lost memories: an artistic journey through the brain", in collaboration with Alessio Ghionzoli (electronic musician) and Luca Gasperoni (videomaker). Diffrazioni Festival, Firenze, Italy ([www.diffrazionifestival.com](http://www.diffrazionifestival.com)).
- 14 December 2016. Multimedial presentation "Tempus fugit - In search of lost memories: an artistic journey through the brain", in collaboration with Alessio Ghionzoli (electronic musician) and Luca Gasperoni (videomaker). No Man's Land – Art&Tech Night, Trento, Italy.
- From January 4, 2017: member of "RagionevolMente" (non-profit association for Science dissemination, Trento/Bolzano,

- Italy).
- Febr 2017: organizer and speaker, CLIL project on Neuroscience (6 hours lectures + 4 hours lab module). Liceo Classico Prati, Trento, Italy.
  - Febr 2017: speaker, Science Museum Trento (MUSE): Public conference for Darwin Day.
  - April 2017: speaker, round table on vaccines, ITT Buonarroti High School, Trento, Italy.
  - Sept. 29. Appearance on RAI3 radio "What do we know about autism" (conductor Francesca Mazzalai).
  - Sept 29, 2017. Speaker at Researchers' Night, Trento, Italy.
  - Sept 25, 2018. Organizer of a boot for TRAIN – Trentino Autism Initiative at Researchers' Night, Trento, Italy.
  - Oct 27, 2018. Speaker at "Pensa Trasversale", University of Trento, Italy.
  - Nov 9, 2018. Speaker at "Chiamata alle arti e alle scienze", Rovereto (TN), Italy.
  - Jan 14, 2019. "A few joints can alter the brain in adolescents". Interview to ANSA and Corriere della Sera.
  - Jan 18, 2019. Participation to the documentary movie "Slow News" by Alberto Puliafito / iK Produzioni.
  - February 19, 2019. TV Interview on Telepace Trento (program "L'intervista" by Silvia Piasentini - <http://www.telepacetrento.it/archivio-video/intervista>)
  - May 13, 2019. Science Café at MUSE, Trento. "Scienza a ore sei: che effetto ti fa? Come le sostanze stupefacenti modificano il nostro cervello".

#### BIBLIOMETRIC PARAMETERS (Google Scholar – February 25, 2019)

- 75 peer-reviewed full papers (indexed in PubMed/Google Scholar; 13 as first author, 33 as last/senior author, 28 as co-author)
- 7 book chapters
- 1 book
- 3 technical notes
- 14 science communication papers (in Italian)
- 107 abstracts at national and international congresses
- total number of citations: 2622 (Scopus: 1898)
- h-index: 28 (Scopus: 26)
- i10-index: 51
- total impact factor 264.637
- average impact factor (of the 63 articles with IF): 4.2

Trento, June 26, 2019

## LIST of PUBLICATIONS

### Articles submitted or under revision (3)

1. Balasco L, Provenzano G, Bozzi Y (2019) Neurobiological bases of tactile sensitivity in autism: lessons from mutant mice. *Frontiers in Psychiatry*, submitted
2. Balasco L, Chelini G, Bozzi Y, Provenzano G (2019) Whisker nuisance test: a valuable tool to assess tactile hypersensitivity in mouse models of ASD. *Bioprotocols*, submitted
3. Tigani W, Pinzan Rossi M, Artimagnella O, Santo M, Rauti R, Sorbo T, Ulloa FPS, Provenzano G, Allegra M, Caleo M, Ballerini L, Bozzi Y, Mallamaci A (2019) Foxg1 upregulation enhances neocortical projection neuron activity. *Cerebral Cortex*, submitted

### Peer-reviewed articles (75)

Indexed in PubMed/Google Scholar, with Impact Factor (IF, when available) and number of citations.

1. Xuwen Zhang, Ilaria Piano, Andrea Messina, Vanessa D'Antongiovanni, Fabiana Crò, Giovanni Provenzano, Yuri Bozzi, Claudia Gargini, Simona Casarosa (2019) Retinal defects in mice lacking the autism-associated gene *Engrailed-2*. *Neuroscience* 408: 177–190  
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2. Gabriele Chelini, Valerio Zerbi, Luca Cimino, Andrea Grigoli, Marija Markicevic, Francesco Libera, Sergio Robbiati, Mattia Gadler, Silvia Bronzoni, Silvia Miorelli, Alberto Galbusera, Alessandro Gozzi, Simona Casarosa, Giovanni Provenzano, Yuri Bozzi (2019) Aberrant somatosensory processing and connectivity in mice lacking *Engrailed-2*. *J Neurosci.* 39(8):1525-1538. doi: 10.1523/JNEUROSCI.0612-18.2018.  
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