Francesco Bedogni, PhD
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Research Associate, Neuroscience and Mental Health Innovation Institute (NMHII)
School of Medicine, Cardiff University
Haydn Ellis Building, Maindy Road
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Institution	Position	Completion date	Field
Università degli Studi di Milano, Milan, Italy	B.S.	1996/2002	Neuropharmacology
Università degli Studi di Milano, Milan, Italy	Ph.D.	2002/2006	Neuropharmacology
Università degli Studi di Trieste, Trieste, Italy	Visitor	June to October 2003	Neuropharmacology
University of Washington, Seattle WA, USA	Postdoctoral	2005/2009	Developmental Neuroscience
San Raffaele Hospital,Milan, ITALY	Research Associate	2009/2020	Developmental Neuroscience
Seattle Children's Hospital, Seattle, WA, USA	Visitor	July to Dec 2014	Developmental Neuroscience
Cardiff University, Cardiff, Wales, UK	Research Associate	2020 to current	Developmental Neuroscience

A. Positions, Honors, Research Support

Positions and Employment

2003-2005 Graduate Student, Department of Pharmacological Sciences, Università degli studi di Milano, Milan, Italy
2005-2009 Senior Postdoc, Departments of Pathology, University of Washington, Seattle, USA
2009-2020 SRRRU, Research Associate, HSR, Milan, Italy
2020-present Research Associate, Neuroscience and Mental Health Research Institute, Cardiff University, UK

Honors

2002-2003 Università degli Studi di Milano, Fellowship Award
2005-2006 Società Italiana di Farmacologia, Fellowship Award
2006-2008 Università degli Studi di Milano, Fellowship Award for International Training
2010-2017 Fellowships from ProRett Italia (through San Raffaele Hospital, Milan, Italy)
2018-2019 Fellowship from Fondazione Umberto Veronesi, Milan, Italy
2019-2020 Fellowship from Fondazione Umberto Veronesi, Milan, Italy
2020-2022 Wellcome Trust Institutional Strategic Support Fund (ISSF), Cardiff, UK
2022-2023 Fellowship from Waterloo Foundation, Cardiff, UK
2023- Fellowship from the Welsh Government (HCRW, BRAIN Unit)

Other Experience and Professional Memberships

2021-present Reviewer Editor for Frontiers in Cellular Neuroscience (Cellular Neuropathology), Frontiers in Molecular Neuroscience (Brain Disease Mechanisms) and Frontiers in Neuroanatomy
2022 Invited Editor, International Journal of Molecular Science
2023 Invited Editor, Frontiers in Bioinformatics
2007-present Member, Society for Neuroscience
2011-present Manuscript reviewer for Plos One, International Journal of Molecular Sciences, Neuroscience & Biobehavioral Reviews, Journal of Medical Genetics, Neuroscience, Frontiers in Neuroscience, Scientific Reports, Neurobiology of Disease

Grants:

- Francesco Bedogni (PI), Cardiff University Future Leaders in Neuroscience: "*Activity driven mechanisms of neuronal differentiation in the embryonic cerebral cortex*" (£5000)
- Francesco Bedogni (co-proponent, Professor Riccardo Brambilla PI), Cardiff University Innovation for All: *"Drug Validation and Target Identification for cognitive disorders using patient-derived cortical explants"* (£18306)
- Francesco Bedogni (PI), Wellcome Trust Internal Strategic Support Fund (ISSF) Fellowship: "*Mechanisms of aberrant cortical development in 16p11.2 deletion and duplication models of autism and intellectual disability"* (£60695).
- Francesco Bedogni (PI), Jerome Lejeune Foundation: "*Modulating intracellular signaling to revert defective mechanisms of cerebral cortical development"*. (€40000)
- Francesco Bedogni (PI), Jerome Lejeune Foundation: "*Early embryonic transcriptional impairments in MeCP2 null mice and their impact on cerebral cortex development*" (€28000)

B. List of publications

As of May 2023, I am author of 34 peer-reviewed studies; the average citation per item is 57.35 ("Web of Science", Clarivate Analytics), for a total of 1900 citations (without self-citation). My H-index 23.

Available on-line and/or under Revision:

Frasca A, Miramondi F, Butti E, Indrigo M, Balbontin Arenas M, Postogna FM, Piffer A, **Bedogni F**, Pizzamiglio L, Cambria L, Borello U, Antonucci F, Martino G, Landsberger N. *Neural precursor cells rescue symptoms of Rett syndrome by activation of the Interferon γ pathway*. EMBO Molecular Medicine, under final revisions, available also on bioRxiv, 2024.01. 07.574507.

Bak A, Schmied K, Jakob M, Bedogni F, Squire O, Gittel B, Jesinghausen M, Schünemann K, Weber Y, Kampa B, van Loo KMG, Koch H. *Temporal Dynamics of Neocortical Development in Organotypic Mouse Cultures: A Comprehensive Analysis.* Journal of Neurophysiology, submitted, available also on bioRxiv, 2024.04. 05.588217.

Elsen G, Castanza A, **Bedogni F**, Wiegreffe C, Britsch S, Hevner R. *Transcriptional programs of pyramidal-projection neuron differentiation directly controlled by Pax6, Tbr2, and Tbr1 in developing mouse neocortex.*
Cerebral Cortex, submitted

Wang T, Sharp M, Morella I, Bedogni F, Trajkovski V, Brambilla R, Syed YA. *Mice with 16p11.2 deletion and duplication show alterations in biological processes associated with white matter*. Molecular Autism, submitted

Cattaneo S, Zaghi M, Maddalena R, **Bedogni F**, Sessa A, Taverna S. *Somatostatin-Expressing Interneurons Co-Release GABA and Glutamate onto Different Postsynaptic Targets in the Striatum*.
Available on BiorXiv; doi: https://doi.org/10.1101/566984.

Published

1: Bedogni F*, Hevner RF*. *Cell-Type-Specific Gene Expression in Developing Mouse Neocortex: Intermediate Progenitors Implicated in Axon Development*. Front Mol Neurosci. 2021 Jul 12;14:686034. **Times Cited: 9; *: co-corresponding authors**

2: Colombo E, Triolo D, Bassani C, **Bedogni F**, Di Dario M, Dina G, Fredrickx E, Fermo I, Martinelli V, Newcombe J, Taveggia C, Quattrini A, Comi G, Farina C. *Dysregulated copper transport may cause white matter demyelination via astrocytes*. Proc Natl Acad Sci U S A. 2021 Jul 6;118(27):e2025804118. **Times Cited: 15**

3: Oleari R, Andrè V, Lettieri A, Tahir S, Roth L, Paganoni A, Eberini I, Parravicini C, Scagliotti V, Cotellessa L, **Bedogni F**, De Martini LB, Corridori MV, Gulli S, Augustin HG, Gaston-Massuet C, Hussain K, Cariboni A. *A Novel SEMA3G Mutation in Two Siblings Affected by Syndromic GnRH Deficiency.* Neuroendocrinology. 2020 May 4. **Times Cited: 14**

4: Scaramuzza L, De Rocco G, Cobolli Gigli C, Chiacchiaretta M, De Simone M, Pagani M, Benfenati F, Cesca F, **Bedogni F***, Landsberger N*,. *The enhancement of activity rescues the establishment of Mecp2 null neuronal phenotypes*. EMBO Mol Med. 2021 Apr 9;13(4):e12433. ***: co-last and co-corresponding authors. Times Cited: 6**

5: Zhang D, **Bedogni F**, Boterberg S, Camfield C, Camfield P, Charman T, Curfs L, Einspieler C, Esposito G, De Filippis B, Goin-Kochel RP, Höglinger GU, Holzinger D, Iosif AM, Lancioni GE, Landsberger N, Laviola G, Marco EM, Müller M, Neul JL, Nielsen-Saines K, Nordahl-Hansen A, O'Reilly MF, Ozonoff S, Poustka L, Roeyers H, Rankovic M, Sigafoos J, Tammimies K, Townend GS, Zwaigenbaum L, Zweckstetter M, Bölte S, Marschik PB. *Towards a consensus on developmental regression*. Neuroscience and Biobehavioral Reviews 107 (2019) 3–5. **Times cited: 11**

6: Frasca A, **Bedogni F**, Landsberger N. *Progress in the development of in vivo redox measurements: New tools for longitudinal studies in Rett syndrome.* Neurosci Biobehav Rev. 2019 Sep;104:28-29. **Times cited: 0**

7: Gandaglia A, Brivio E, Carli S, Palmieri M, **Bedogni F**, Stefanelli G, Bergo A, Leva B, Cattaneo C, Pizzamiglio L, Cicerone M, Bianchi V, Kilstrup-Nielsen C, D'Annessa I, Di Marino D, D'Adamo P, Antonucci F, Frasca A, Landsberger N. *A novel Mecp2Y120D knockin model displays similar behavioral traits but distinct molecular features compared to the Mecp2-null mouse implying precision medicine for the treatment of Rett syndrome.* Molecular Neurobiology, 2018 Nov 6. **Times cited: 15**

8: Elsen GE*, **Bedogni F***, Hodge RD, Bammler TK, MacDonald JW, Lindtner S, Rubenstein JLR, Hevner RF. *The Epigenetic Factor Landscape of Developing Neocortex is Regulated by Transcription Factors Pax6→Tbr2→Tbr1.* Front. Neurosci. 22 August 2018. **Times Cited: 28; *:co-first authors.**

9: Cobolli Gigli C, Scaramuzza L, De Simone M, Rossi RL, Pozzi D, Pagani M, Landsberger N, **Bedogni F**. *Lack of Methyl-CpG Binding Protein 2 (MeCP2) Affects Cell Fate Refinement During Embryonic Cortical Development***.** Cerebral Cortex. 2018 May 1;28(5):1846-1856. **Times Cited: 19**

10: Schwarz N, Hedrich UBS, Schwarz H, Harshad PA, Dammeier N, Auffenberg E, **Bedogni F**, Honegger JB, Lerche H, Wuttke TV, Koch H. *Human Cerebrospinal fluid promotes long-term neuronal viability and network function in human neocortical organotypic brain slice cultures.* Scientific Reports 7, 12249 (2017). **Times Cited: 40**

11: Mihalas A, Elsen GE, **Bedogni F**, Daza RAM, Ramos-Laguna KA, Arnold SJ, Hevner RF. *Intermediate Progenitor Cohorts Differentially Generate Cortical Layers and Require Tbr2 for Timely Acquisition of Neuronal Subtype Identity.* Cell Rep. 2016 Jun 28;16(1):92-105. **Times Cited: 69**

12: Bedogni F, Cobolli Gigli C, Pozzi D, Rossi RL, Scaramuzza L, Rossetti G, Pagani M, Kilstrup-Nielsen C, Matteoli M, Landsberger N. *Defects During Mecp2 Null Embryonic Cortex Development Precede the Onset of Overt Neurological Symptoms.* Cerebral Cortex. 2016 Jun;26(6):2517-2529. **Times Cited: 53**

13: Cobolli Gigli C, Scaramuzza L, Gandaglia A, Bellini E, Gabaglio M, Parolaro D, Kilstrup-Nielsen C, Landsberger N, **Bedogni F**. *MeCP2 related studies benefit from the use of CD1 as genetic background.* PlosONE, 2016 Apr 20;11(4):e0153473. **Times Cited: 20**

14: Nawaz MS, Giarda E, **Bedogni F**, La Montanara P, Riciardi S, Ciceri D, Landsberger N, Rusconi L, Kilstrup-Nielsen C. *CDKL5 and Shootin1 Interact and Concur in Regulating Neuronal Polarization.* PlosONE. 2016 Feb 5;11(2):e0148634. **Times Cited: 34**

15: Rusconi F, Paganini L, Braida D, Ponzoni L, Toffolo E, Maroli A, Landsberger N, **Bedogni F**, Turco E, Pattini L, Altruda F, De Biasi S, Sala M, Battaglioli E. *LSD1 Neurospecific Alternative Splicing Controls Neuronal Excitability in Mouse Models of Epilepsy.* Cereb Cortex. 2015 Sep;25(9):2729-40. **Times Cited: 41**

16: Bedogni F, Rossi RL, Galli F, Cobolli Gigli C, Gandaglia A, Kilstrup-Nielsen C, Landsberger N. *Rett syndrome and the urge of novel approaches to study MeCP2 functions and mechanisms of action.* Neurosci Biobehav Rev. 2014 Oct;46 Pt 2:187-201. **Times Cited: 38**

17: Colombo E, **Bedogni F**, Lorenzetti I, Landsberger N, Previtali SC and Farina C. *Autocrine and immune cell derived BDNF in human skeletal muscle: implications for myogenesis and tissue regeneration.* The Journal of Pathology. 2013 J Pathol. 2013 Oct;231(2):190-8. **Times Cited: 39**

18: Nelson BR, Hodge RD, **Bedogni F**, Hevner RF. *Dynamic Interactions between Intermediate Neurogenic Progenitors and Radial Glia in Embryonic Mouse Neocortex: Potential Role in Dll1-Notch Signaling.* J Neurosci. 2013 May 22;33(21):9122-39. **Times Cited: 77**

19: Elsen GE, Hodge RD, **Bedogni F**, Daza RAM, Shiba N, Reiner SL, Hevner RF. *The protomap is propagated to cortical plate neurons through an Eomes-dependent intermediate map.* Proc Natl Acad Sci U S A. 2013 Mar 5;110(10):4081-6. **Times Cited: 68**

20: Kilstrup-Nielsen C, Rusconi L, La Montanara P, Ciceri D, Bergo A, **Bedogni F**, Landsberger N. *What We Know and Would Like to Know about CDKL5 and Its Involvement in Epileptic Encephalopathy.* Neural Plast. 2012;2012:728267. **Times Cited: 79**

21: Koch H, Huh SE, Elsen F, Hodge RD, **Bedogni F**, Hevner RF, Ramirez JM. *Prostaglandin E2 induced synaptic plasticity in neocortical networks of organotypic slice cultures.* J Neurosci. 2010 Sep 1;30(35):11678-87. **Times Cited: 39**

22: Bedogni F, Hodge RD, Elsen G, Nelson B, Daza R, Bayer R, Bammler T, Rubenstein JH, Hevner RF. *Tbr1 coordinates regional and laminar identity of postmitotic neurons in developing cortex.* Proc Natl Acad Sci U S A. 2010 Jul 20;107(29):13129-34. **Times Cited: 240**

23: Bedogni F, Hodge RD, Nelson BR, Frederick EA, Shiba N, Daza RA, Hevner RF. *Autism susceptibility candidate 2 (Auts2) encodes a nuclear protein and is highly expressed in developing brain regions associated with autism neuropathology.* Gene Expr Patterns. 2010 Jan;10(1):9-15. **Times Cited: 93**

24: Kowalczyk T, Pontious A, Englund C, Daza R, **Bedogni F**, Hodge R, Attardo A, Bell C, Huttner W, Hevner R. Intermediate Neuronal Progenitors (Basal Progenitors) Produce Pyramidal-Projection Neurons for All Layers of Cerebral Cortex. Cereb Cortex. 2009 Oct;19(10):2439-50. **Times Cited: 304**

25: Ik-Tsen Heng J, Nguyen L, Castro D, Zimmer C, Skowronska-Krawczyk D, **Bedogni F**, Matter JM, Hevner RF, Guillemot F. *Neurogenin 2 controls cortical neuron migration through regulation of Rnd2.* Nature. 2008 Sep 4;455(7209):114-8. **Times Cited: 213**

26: Bedogni F*, Fadda P*, Fresu A, ColluM, Racagni G, Riva MA. *Reduction of cortico-striatal glutamatergic fibers in FGF2 deficient mice is associated with hyperactivity and enhanced dopaminergic transmission.* Biol Psychiatry. 2007 Aug 1;62(3):235-42. **Times Cited: 17; *:co-first authors.**

27: Fumagalli F, **Bedogni F**, Frasca A, Di Pasquale L, Racagni G, Riva MA. *Cortico-striatal up-regulation of Activity*

Regulated Cytoskeletal-associated protein (Arc) expression following repeated exposure to cocaine. Mol Pharmacol. 2006 Nov;70(5):1726-34. **Times Cited: 41**

28: Molteni R, Calabrese F, **Bedogni F**, Tongiorgi E, Fumagalli F, Racagni G, Riva MA. Chronic treatment with fluoxetine up-regulates cellular BDNF mRNA expression in rat dopaminergic regions. Int J Neuropsychopharmacol. 2006 Jun;9(3):307-17. **Times Cited: 98**

29: Fumagalli F, **Bedogni F**, Slotkin TA, Racagni G, Riva MA. *Prenatal stress elicits regionally selective changes in basal FGF-2 gene expression in adulthood and alters the adult response to acute or chronic stress.* Neurobiol Dis. 2005 Dec;20(3):731-7. **Times Cited: 48**

30: Riva MA, Molteni R, **Bedogni F**, Racagni G, Fumagalli F. *Emerging role of the FGF system in psychiatric disorders.* Trends Pharmacol Sci. 2005 May;26(5):228-31. **Times Cited: 46**

31: Fumagalli F, Molteni R, **Bedogni F**, Gennarelli M, Perez J, Racagni G, Riva MA. *Quetiapine regulates FGF-2 and BDNF expression in the hippocampus of animals treated with MK-801.* Neuroreport. 2004 Sep 15;15(13):2109-12. **Times Cited: 61**

32: Fumagalli F, **Bedogni F**, Perez J, Racagni G, Riva MA. *Corticostriatal brain-derived neurotrophic factor dysregulation in adult rats following prenatal stress.* Eur J Neurosci. 2004 Sep;20(5):1348-54. **Times Cited: 93**

33: Fumagalli F, **Bedogni F**, Maragnoli ME, Gennarelli M, Perez J, Racagni G, Riva MA. *Dopaminergic D2 receptor activation modulates FGF-2 gene expression in rat prefrontal cortex and hippocampus.* J Neurosci Res. 2003 Oct 1;74(1):74-80. **Times Cited: 23**

34: Fumagalli F, Molteni R, Roceri M, **Bedogni F**, Santero R, Fossati C, Gennarelli M, Racagni G, Riva MA. *Effect of antipsychotic drugs on brain-derived neurotrophic factor expression under reduced N-methyl-D-aspartate receptor activity.* J Neurosci Res. 2003 Jun 1;72(5):622-8. **Times Cited: 65**

C. Lectures, Seminars, Attended International Scientific Meetings

Oral presentations:

- Society for Neuroscience Meeting, Chicago, IL, USA, November 2019.
The enhancement of activity rescues the early establishment of Mecp2 null neuronal features.

- Advances in Basic and Clinical Aspects of Neurodevelopmental Disorders, Helsinki, Finland, 2019.
The enhancement of activity rescues the early establishment of Mecp2 null neuronal features.

- University of Bristol, May 2019.
Lack of Methyl-CpG Binding Protein 2 (MeCP2) during embryonic cortical development affects cell fate refinement and neuronal maturation

- Cardiff University, May 2019.
Lack of Methyl-CpG Binding Protein 2 (MeCP2) during embryonic cortical development affects cell fate refinement and neuronal maturation

- RettRome, Rome, Italy, September 2018. (I was part of the organizing committee).
Lack of Methyl-CpG Binding Protein 2 (MeCP2) Affects Cell Fate Refinement During Embryonic Cortical Development.

- University of Tubingen, November 2016.
Lack of Mecp2 interferes with mechanisms of cortical progenitors proliferation and differentiation

- Society for Neuroscience Meeting, San Diego CA, USA, November 2016.
Lack of Mecp2 interferes with mechanisms of cortical progenitors proliferation and differentiation.

- Center for Integrative Brain Research, Seattle Children's Hospital, Seattle, USA, June 2016.
Mechanisms of neuronal maturation are impaired in the developing neocortex of MeCP2 null embryos

- Division of Neuroscience, San Raffaele Hospital, Italy, April 2016.
Lack of Mecp2 interferes with mechanisms of cortical progenitors proliferation and differentiation

- Mirganka Sur's lab seminars, MIT, Cambridge, MA, USA, October 2015.
Lack of Mecp2 interferes with mechanisms of cortical progenitors proliferation and differentiation.

- Society for Neuroscience Meeting, Chicago IL, USA, October 2015.
Lack of Mecp2 in the developing embryonic cortex delays the acquirement of mature neuronal identity.

- EMBO Workshop on Cortical Development in Health and Disease, Rehovot Israel, April 2015.
Defects during Mecp2 null embryonic cortex development precede the onset of overt neurological symptoms.

- Center for Integrative Brain Research, Seattle Children's Hospital, Seattle, USA, December 2014.
Mechanisms of neuronal maturation are impaired in the developing neocortex of Mecp2 null embryos.

- Division of Neuroscience, San Raffaele Hospital, Italy, February 2014.
Mechanisms of neuronal maturation are impaired in the developing neocortex of Mecp2 null embryos.

- Department of Structural Biology, Università dell'Insubria, Italy, April 2013.
Early steps of cortical neurons differentiation are defective in Mecp2 null mice.

- Division of Neuroscience, San Raffaele Hospital, Italy, April 2011.
Transcriptional networks regulating cerebral cortex development.

- ECNP Workshop on Neuropsychopharmacology for Young Scientists in Europe, Nice, France, March 2005.
Hyperactivity and altered dopaminergic function in FGF-2 knockout mice.

Poster presentations:
- Society for Neuroscience Meeting, Washington DC, USA, November 2023.
Mechanisms of early development of the cerebral cortex in models of 16p11.2 genetic locus Copy Number Variations.
- Conferences Jacques-Monod, Roscoff, France, April 2022.
Interactions between Neurod1 and ERK signaling in mechanisms of cerebral cortex development and their role in the genesis of neurodevelopmental disorders
- Society for Neuroscience Meeting, San Diego, CA, USA, November 2018.
Transcriptional targets of NeuroD1 during embryonic cortical development.

- Society for Neuroscience Meeting, Washington DC, USA, November 2017.
Defective mechanisms of corticogenesis in Mecp2 null cerebral cortexes.

- 2017 RED brain meeting, Geneve, Switzerland, September 2017.
Lack of Methyl-CpG Binding Protein 2 (MeCP2) Affects Cell Fate Refinement During Embryonic Cortical Development.

- The Developing Brain in Health and Disease Symposium, June 2017, London, UK.
Lack of Mecp2 affects the mechanisms of cell fate refinement during embryonic development of the cerebral cortex.

- Cortical Development Conference, May 2017 Chania, Greece.
Lack of Mecp2 affects the mechanisms of cell fate refinement during embryonic development of the cerebral cortex.

- Transcriptional Regulation in Development and Disease, 2016 Chicago, IL, USA, June 2016.
Lack of Mecp2 interferes with mechanisms of cortical progenitors proliferation and differentiation.

- Rett Syndrome Research Symposium, Itasca IL, USA, June 2016.
Lack of Mecp2 interferes with mechanisms of cortical progenitors proliferation and differentiation

- Society for Neuroscience Meeting, Washington DC, USA, November 2014.
Mechanisms of neuronal maturation are impaired in the developing neocortex of Mecp2 null embryos.

- Society for Neuroscience Meeting, Chicago IL, USA, November 2009.
Pattern of expression of Auts2: Gradient towards the frontal cortex and relationship to Tbr1.

- Society for Neuroscience Meeting, Washington DC, USA, November 2008.
Gene expression analysis of Tbr1-/- cortex during early development.

- 4th Forum of European Neuroscience, Lisbon, Portugal, July 2004.
Hyperactivity and altered dopaminergic function in FGF-2 knock out mice.

D. Undergraduate and Postgraduate Teaching and mentoring activities

- Teaching:
- Cardiff University (UK): BI2432 Fundamental Neuroscience, Practical on the use of Brain Atlas Databases, with professor Isabel Martinez-Garay; 6 hours (2021, 2022 and 2023)
- Cardiff University (UK): BI2432 Fundamental Neuroscience, Practical on histological assessments through dedicated software, with professor Riccardo Brambilla; 4 hours (2021, 2022)
- Cardiff University (UK): BI3451 Neurobiology of Brain Disorders, Drug Addiction; 2 hours (2021, 2022 and 2024)
- Università di Pavia (Italy): 510332 Comparative Neurodevelopment and Stem Cells; 24 hours (2022, 2023)
- Università di Pavia (Italy): Practical on the use of Brain Atlas Databases, Master in Neurobiology; 8 hours (2022)
- Università Vita Salute (Italy): General Histology, degree in Medicine and Surgery; 16 hours (2021)
- Università degli Studi di Milano (Italy): Analysis of transcription through histological assessments; 4 hours (2004, 2005)

- Licensing:
License to teach Molecular Biology from the Italian Government ("Abilitazione Scientifica Nazionale").
License to teach Histology from the Italian Government ("Abilitazione Scientifica Nazionale").
License to teach Physiology from the Italian Government ("Abilitazione Scientifica Nazionale").

- Training activity:
Undergraduate students: 5
Graduate students: 10

PhD students: 3
General Laboratory Training: 5

E. Outreach

- ProRett: yearly press releases of the Italian association ProRett Italia, a charity supporting basic and translational research on Rett syndrome. From 2011 to 2018.

- RettRome, 2018 Rome, Italy. I was a member of the organizing committee together professor Juan Ausio (University of Victoria, Canada), doctor Angelisa Frasca (Università degli Studi di Milano, Italy), professor Nicoletta Landsberger (Università degli Studi di Milano, Italy), professor Enrico Tongiorgi (Università degli Studi di Trieste, Italy).

- Umberto Veronesi Foundation: These lessons to 4th and 5th year graders at the "Liceo Scientifico Galileo Galilei", Legnano (Italy) are a mandatory requirement associated with my 2017-2018 Umberto Veronesi Foundation fellowship. The aim of this is to introduce high school students to the importance of research and the potential of scientific discoveries.

- ProRett: overview on the scientific activities carried out from 2012 to 2015, this report was dedicated to the families of Rett girls supporting ProRett Italia with their efforts.

- "Dynamics of early embryogenesis and central nervous system establishment and development". Università Statale di Milano, degree in Biotechnology, 3rd year students, 2012.

- "Dynamics of cerebral cortex establishment and regionalization". Università dell'Insubria, degree in Biotechnology, 2nd year students, 2011.

- "Analytical approaches for the *in vivo* assessment of transcription". Università Statale di Milano, degree in Pharmacological Biotechnology, 3rd year students, from 2004 to 2005.