

CURRICULUM VITAE AND TRACK RECORD

Tommaso Pizzorusso

Personal Information

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Current and Previous Positions

- 2021–present: Full Professor of Neuroscience, Scuola Normale Superiore, Pisa, Italy
- 2003–2021: Associate Professor of Neuroscience, University of Florence, Italy

1998–2003: Assistant Professor of Neuroscience, Scuola Normale Superiore, Pisa, Italy

Prizes and awards

Medaglia del Presidente della Repubblica per giovane ricercatore in Neuroscienze 2003
23492 IRP/IFP Schellenberg Prize, IRP - International Foundation for Research in Paraplegia IFP - Internationale Stiftung für Forschung in Paraplegie 2013

Visiting academic positions

Georgetown University, Washington DC postdoc 06/1990 05/1994

Teaching activities and PhD supervision

Courses Advanced Topics in neuroscience (3 CFU) and Neurophysiology (6 CFU) Scuola Normale Superiore
I have tutored more than 35 Phd students, amongst them:
Leonardo Lupori Friederich Miescher Institue, Basel CH postdoc
Francesca Damiani, researcher in private company
Sara Cornuti (Universite de Luxembourg) postdoc
Paola Tognini, RTD-B Scuola S.Anna Pisa

Gabriele Chelini, ricercatore IN-CNR Pisa
Raffaele Mazziotti, RTD-A Università di Firenze
Mariangela Gennaro, post-doc in my laboratory
Davide Silingardi, high school teacher
Giuseppina Lonetti, high school teacher
Francesco Cacciante, private imaging company
Debora Napoli, RTD-A Scuola Normale Superiore
Paolo Medini, Associate Professor, University of Umea (Sweden)
Laura Cancedda, tenured researcher at the Italian Institute of Technology
Marco Mainardi, Associate Professor University of Padova

National and international collaborations and networks that contribute to enhancing the scientific quality and feasibility of the proposal

Coordination of the Neuroscience spoke of THE Tuscany Ecosystem of research managing
Scientific Advisor of the patient association Associazione Italiana per la sindrome di Rett AIRETT
Collaboration with Bianca Silva, Institute of Molecular and Cellular Pharmacology (IPMC), Nice France on emotional behavior
Collaboration wiht Serena Bovetti UNITO on circuit mapping of emotional contagion
Collaboration with Michela Fagiolini Harvard University, Boston children's hospital on REtt syndrome biomarkers
Collaboration with Jessica Kwok, University of Leeds on perineuronal nets

Other work experience (e.g. consultancy if any)

Reviewer and panelist for the ANR France, panelist for the European Union ERC Synergy and Consolidator programs, external reviewer for the ERC starting and Advanced program

Roles and responsibilities

- Administrative role and position responsibility

2025- Vice Director of the Scuola Normale Superiore

2024- Coordinator of the PhD in Neuroscience of the Scuola Normale Superiore

2023- Delegate for research of the Scuola Normale Superiore

- Scientific organisations/Coordination of academic activities (from 2017)

Elected member of the Italian Society for Neuroscience 2017-2021

Program chair of the 21st SINS National Congress 2025

Program committee president: Mechanisms, Therapies and Biomarkers in Neurodevelopmental Disorders Pisa, 2023

Program chair Gut-brain and beyond: Interorgan Communication in Health and Disease Pisa, 2026

Program committee Single-Cell and Non-coding RNAs for Neuroscience Lipari, 2025

Program committee Exploring Cellular Diversity and Circuitry Across the Neural Landscape Lipari 2026

Editorial activity

FRONTIERS IN CELLULAR NEUROSCIENCE [2007]

ISSN: 1662-5102

Associate Editor since 2015

FRONTIERS IN NEURAL CIRCUITS [2007]

ISSN: 1662-5110

Titolo abbreviato: FRONT. NEURAL

CIRCUITS

Associate Editor since 2015

Membership of scientific societiesSocietà Italiana di Neuroscienze (SINS)
and FENS**Funding (current and past since 2022)**

Anno	Project title	Person months	Funding organisation	Role
2024	Development of gene therapy as a possible cure for Creatine Transporter Deficiency Syndrome”	1	Fondazione Beneficienza Banca Intesa	Principal Investigator
2024	NEURAL MECHANISMS UNDERLYING MEMORY IMPROVEMENT BY SPACED TRAINING AS A TOOL TO MAKE DURABLE MEMORIES IN NORMAL AND COGNITIVELY IMPAIRED CONDITIONS	2	PRIN Italian Ministry for research	Coordinator
2024	NEUROBRIDGE	1	European Union - Next Generation EU Missione 4 Componente 2 Inv. 1.5 THE CUP I53C22000780001, PNRR MUR M4 C1 Inv. 3.4 Iniziative Educative Transnazionali - TNE 00034 - Avviso n.167/2023 for dissemination of PhD program at Scuola Normale Superiore	Coordinator
2022	NOVELTY	4	Internal Funds SCUOLA NORMALE SUPERIORE	Principal Investigator

2021	Creazione e sviluppo di un laboratorio di CRONObiologia	6	Italian Ministry for research, PRO3 2021-23 - programma CONGIUNTO - Ricerca "	Unit Responsible
2019	Nutrition, metabOlism and brain deVELOpment: The visual sYstem as a window into metabolic influence	3	Italian Ministry for research, PRIN	Coordinator

Significant career breaks

None

(max 500 characters)

Recent selected publications:

1. Viglione, Aurelia, Giannuzzi, Chiara, Putignano, Elena, Mazziotti, Raffaele Mario, Bagnoli, Sara, Tognini, Paola, Cellerino, Alessandro, Pizzorusso, Tommaso (2026). MicroRNA-29 acutely regulates Memory Stability, Expression of Synaptic Genes, and DNA Methylation in the Mouse Adult Hippocampus. CELLULAR AND MOLECULAR LIFE SCIENCES, ISSN: 1420-9071, doi: 10.1007/s00018-026-06235-9
2. Leonardo Lupori, Valentino Totaro, Sara Cornuti, Luca Ciampi, Fabio Carrara, Edda Grilli, Aurelia Viglione, Francesca Tozzi, Elena Putignano, Raffaele Mazziotti, Giuseppe Amato, Claudio Gennaro, Paola Tognini, Tommaso Pizzorusso (2023). A Comprehensive Atlas of Perineuronal Net Distribution and Colocalization with Parvalbumin in the Adult Mouse Brain. CELL REPORTS, vol. 42, p. 1-20, ISSN: 2211-1247, doi: 10.1016/j.celrep.2023.112788
3. Poli, Andrea, Viglione, Aurelia, Mazziotti, R., Totaro, Valentino, Morea, S., Melani, R., Silingardi, D., Putignano, Elena, Berardi, Nicoletta, Pizzorusso, Tommaso (2023). Selective Disruption of Perineuronal Nets in Mice Lacking Crt11 is Sufficient to Make Fear Memories Susceptible to Erasure. MOLECULAR NEUROBIOLOGY, vol. 60, p. 4105-4119, ISSN: 1559-1182, doi: 10.1007/s12035-023-03314-x
4. Lupori L., Cornuti S., Mazziotti R., Borghi E., Ottaviano E., Cas M. D., Sagona G., Pizzorusso T., Tognini P. (2022). The gut microbiota of environmentally enriched mice regulates visual cortical plasticity. CELL REPORTS, vol. 38, 110212, ISSN: 2211-1247, doi: 10.1016/j.celrep.2021.110212

5. Yang S., Gigout S., Molinaro A., Naito-Matsui Y., Hilton S., Foscari S., Nieuwenhuis B., Tan C. L., Verhaagen J., Pizzorusso T., Saksida L. M., Bussey T. M., Kitagawa H., Kwok J. C. F., Fawcett J. W. (2021). Chondroitin 6-sulphate is required for neuroplasticity and memory in ageing. *MOLECULAR PSYCHIATRY*, vol. 26, p. 5658-5668, ISSN: 1359-4184, doi: 10.1038/s41380-021-01208-9
6. Napoli D., Lupori L., Mazziotti R., Sagona G., Bagnoli S., Samad M., Sacramento E. K., Kirkpartick J., Putignano E., Chen S., Terzibasi Tozzini E., Tognini P., Baldi P., Kwok J. C. F., Cellerino A., Pizzorusso T. (2020). MiR-29 coordinates age-dependent plasticity brakes in the adult visual cortex. *EMBO REPORTS*, vol. 21, p. 1-19, ISSN: 1469-221X, doi: 10.15252/embr.202050431
7. Fawcett JW, Oohashi T, Pizzorusso T. (2019). The roles of perineuronal nets and the perinodal extracellular matrix in neuronal function. *NATURE NEUROSCIENCE*, vol. 20, p. 451-465, ISSN: 1097-6256, doi: 10.1038/s41583-019-0196-3
8. Mazziotti, Raffaele, Baroncelli, Laura, Ceglia, Nicholas, Chelini, Gabriele, Sala, Grazia Della, Magnan, Christophe, Napoli, Debora, Putignano, Elena, Silingardi, Davide, Tola, Jonida, Tognini, Paola, Arthur, J. Simon C., Baldi, Pierre, Pizzorusso, Tommaso (2017). Mir-132/212 is required for maturation of binocular matching of orientation preference and depth perception. *NATURE COMMUNICATIONS*, vol. 8, p. 15488-15499, ISSN: 2041-1723, doi: 10.1038/ncomms15488
9. DELLA SALA, GRAZIA, Putignano, Elena, CHELINI, GABRIELE, MELANI, RICCARDO, Calcagno, Eleonora, Ratto, Gian Michele, Amendola, Elena, Gross, Cornelius T, Giustetto, Maurizio, PIZZORUSSO, TOMMASO (2016). Dendritic Spine Instability in a Mouse Model of CDKL5 Disorder Is Rescued by Insulin-like Growth Factor 1. *BIOLOGICAL PSYCHIATRY*, vol. 80, p. 302-311, ISSN: 0006-3223, doi: 10.1016/j.biopsych.2015.08.028
10. Tognini, Paola, Napoli, Debora, Tola, Jonida, Silingardi, Davide, Della Ragione, Floriana, D'Esposito, Maurizio, PIZZORUSSO, TOMMASO (2015). Experience-dependent DNA methylation regulates plasticity in the developing visual cortex. *NATURE NEUROSCIENCE*, vol. 18, p. 956-958, ISSN: 1097-6256, doi: 10.1038/nn.4026

For a complete publication list:

https://scholar.google.com/citations?hl=en&user=3B6vVy0AAAAJ&view_op=list_works&sortby=pubdate