

MATTEO PEDRAZZOLI

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Date of Birth: April 13, 1990 in Milan (Italy)
Citizenship: Italian



WORK EXPERIENCES

- From 11. 2018 **RESEARCH FELLOWSHIP and Volunteer Researcher**
University of Pavia - Department of Biology and Biotechnology
My research project is focused on the studies of the electrophysiological properties of motor neuron cultures derived by human cells of healthy subjects or affected by the **SMA**.
Supervisor: Professor Gerardo Biella and Professor Mauro Toselli
10. 2019 – 06. 2020 **SECONDARY SCHOOL TEACHER**
“Garofani” Secondary School of Rozzano, Italy
10. 2015 – 09-2018 **PHD STUDENT IN NEUROSCIENCE**
University of Verona - Department of Neuroscience, Biomedicine and Movement
My research project is focused on the correlation between stress and Alzheimer Disease.
Supervisor: Professor Mario Buffelli
11. 2014 – 09. 2015 **VOLUNTEER ASSOCIATE RESEARCHER**
University of Pavia - Department of Biology and Biotechnology
My research project aim was the realization of a computational model of resonant neurons using MatLab language.
Supervisor: Professor Gerardo Biella & Stefano Ramat
- 06.2012 – 09.2015 **BACHELOR’S AND MASTER’S DEGREE INTERNSHIP**
University of Pavia - Department of Nervous System and Behavioral Sciences
Supervisor: Dr. Paola Perin of Neurophysiology Laboratory

EDUCATION

- 10.2015 – 09.2018 **DOCTORAL DEGREE (PHD) IN NEUROSCIENCE**
University of Verona; Thesis defense in May 2019. Thesis Title: *“Glucocorticoid receptors modulate dendritic spine plasticity and inflammation in an animal model of Alzheimer’s disease”*
- 09.2012 – 09.2014 **MASTER OF SCIENCE: NEUROBIOLOGY**
University of Pavia Final grades of 110/110 Degree. Thesis: *“Oscillatory Dynamic in Mechanical and Electrical Responses of Vestibular Hair Cells”*
- 09.2009 – 07.2012 **BACHELOR’S DEGREE: BIOLOGICAL SCIENCE**
University of Pavia Final grades of 110/110 cum Laude and Encomium. Degree thesis: *“Codification and Transmission of Information in the Brain”*

LANGUAGES

Motherlanguage: Italian
Other Language: English fluently (advance level)

SCIENTIFIC SKILLS

ITC:	Neuron Modeling using MatLab language and Neuron software; Bayesian statistics applied to neuronal Information Coding Image analysis through Imaris Software, ImageJ and Neurolucida Software. Other skills: Office Package
Laboratory	Immunofluorescence technique applied to cell cultures and animal slices; Fluorescence and Confocal Microscopy ; Two-photon microscopy ; Golgi Technique applied also in an innovative combination with immunofluorescence and electron microscopy elaborated by myself; Primary Cortical Neuronal Culture technique; Electrophysiology technique ; Patch Clamp Technique on neuron culture; basal knowledge of Immunoblotting technique.
Animal handling:	Intraperitoneal injections, intranasal injections, transcatheter perfusion. Basic knowledge of behavioral tests. (Achieve European certification of C.I.R.S.A.L 2015 at University of Verona, November 4 th 2015).
Workplace safety:	'Corso di formazione generale alla SSL per Lavoratori'; 'Gestione della Sicurezza nei Laboratori'(art.37, D.Lgs 81/08); 'Ruolo dei Dispositivi di Protezione Collettiva nel laboratorio biologico e nel laboratorio di analisi' (n. STPAP 160224-19).

PUBLICATIONS

- **Pedrazzoli M.***; Medelin M.*, Jaupaj L., Cisterna B., Slanzi A., Malatesta M., Coco S., Buffelli M.: An improved and simplified protocol to combine Golgi-Cox impregnation with immunofluorescence and transmission electron microscopy techniques; Neurochemistry International; 2020, July - **Under Review**.
***Co-first authors**
- Losurdo, M., **Pedrazzoli, M.**, D'Agostino, C., Elia, C.A., Massenzio, F., Lonati, E., Mauri, M., Rizzi, L., Molteni, L., Bresciani, E., Dander, E., D'Amico, G., Bulbarelli, A., Torsello, A., Matteoli, M., Buffelli, M., Coco, S.: **"Intranasal delivery of mesenchymal stem cell-derived extracellular vesicles exerts immunomodulatory and neuroprotective effects in a 3xTg model of Alzheimer's disease"** Stem Cells Transl. Med. sctm.2020 June 4; <https://doi.org/10.1002/sctm.19-0327>
- **Pedrazzoli M.**, Losurdo M., Paolone G., Medelin M., Jaupaj L., Cisterna B., Slanzi A., Malatesta M., Coco S., Buffelli M.: **"Glucocorticoid receptors modulate dendritic spine plasticity and microglia activity in an animal model of Alzheimer's disease"**. Neurobiology of Disease, 2019 Aug 5;132:104568. doi: 10.1016/j.nbd.2019.104568
- Bertero A., Liska A., Pagani M., Parolisi R., Masferrer ME., Gritti M., **Pedrazzoli M.**, Galbusera A., Sarica A., Cerasa A., Buffelli M., Tonini R., Buffo A., Gross C., Pasqualetti M., Gozzi A.: **"Autism-associated 16p11.2 microdeletion impairs prefrontal functional connectivity in mouse and human"**. Brain, 141(7), pp. 2055–2065. doi: 10.1093/brain/awy111; July 2018.

CONFERENCE & CONGRESS TALKS

- **Invited Speaker at educational event of 'Giornata del Golgi'– Pedrazzoli M.:** “Stress e Alzheimer: come la tecnica di Golgi ci aiuta a studiare possibili nuove terapie”, Corteno Golgi, Italy
- **Talk Presentation at BraYn Conference 2019 –Pedrazzoli M.,** Losurdo M., Paolone G., Medelin M., Jaupaj L., Cisterna B., Slanzi A., Malatesta M., Coco S., Buffelli M: “*Glucocorticoid receptor modulation alters dendritic spine density and microglia activation in the hippocampus of 3xTg-AD mice*” Milan, Italy, November 2019
- **Invited Talked for nano-symposium at Society for Neuroscience – Chicago Meeting 2019 - Pedrazzoli M.,** Losurdo M., Paolone G., Medelin M., Jaupaj L., Cisterna B., Slanzi A., Malatesta M., Coco S., Buffelli M: “*Glucocorticoid receptor modulation alters dendritic spine density and microglia activity in an animal model of Alzheimer's disease*”; Chicago, USA, October 2019
- **Talk Presentation at 69th Congress of Italian Physiology Society - Pedrazzoli M.,** Losurdo M., Paolone G., Slanzi A., Rossato B., Medelin M., Avesani A., Coco S., Buffelli M. “*Glucocorticoid receptors are critical modulators of synaptic plasticity and microglia activity in 3xTg-AD mice hippocampus*”; Firenze, Italy, September 2018.
- **Invited Talked at Italian Neuroscience Institute – Open Neuroscience Forum - Pedrazzoli M.:** “*Evaluation of the role of glucocorticoid receptors on neurons and microglia in 3xTg-AD mice hippocampus*”; Verona, Italy – September 15th, 2017

SCIENTIFIC CONGRESS AND SCHOOL PARTECIPATIONS

- 2019: - **Second Brainstorming Research Assembly for Young Neuroscientists (BraYn Conference)** Milan, Italy
- **Society for Neuroscience Congress Meeting 2019 –** Chicago, USA
Invited for oral presentation at nano-symposium
- 2018: - **69th Congress of Italian Physiology Society –** Firenze, Italy
Selected for oral presentation.
- **11th FENS Forum of Neuroscience –** Berlin, Germany.
- **First Brainstorming Research Assembly for Young Neuroscientists - (BraYn Conference)** Genoa, Italy.
- **Alzheimer's & Parkinson's Diseases Focus Meeting –** Torino, Italy.
- 2017: - **17th Congress of Italian Society for Neuroscience (SINS),** Ischia, Italy – **Winner of the Best Poster Contest.**
- **3rd Summer School of Prion-like Neurodegenerative Disorders,** Desenzano del Garda, Italy.
- **68th Congress of Italian Physiology Society,** Pavia – **Winner of the Best Poster Contest.**
- **Life Science PhD Meeting Innsbruck 2017,** Austria.
- **13th International Conference on Alzheimer's & Parkinson's Diseases** Vienna, Austria.
- **Ph.D. Student meeting SINS –** Naples, Italy.
- 2016: - **67th Congress of Italian Physiology Society-** Catania, Italy.
- 2015: - Training Course ‘*Horizon 2020: the evaluation process*’ of Dr. Margot Bezzi University of Verona, Italy.

- Course 'Scientific Publishing' by Prof. James Ritter of King's College – London, UK – University of Verona, Italy.
 - Workshop meeting "Working memory, data and models – bridging the gap" promoted by Professor Mathew Diamond at SISSA, Trieste, Italy.
- 2014: - **51st Annual Conference Inner Ear Biology (IEB)** in Sheffield, UK.
 - **9th FENS Forum of Neuroscience** – Milan, Italy.
 - Frontiere delle Neuroscienze - Settimana mondiale del Cervello" at. Istituto Neurologico Nazionale Casimiro Mondino, Pavia, Italy.
- 2013: - XXIV Conference Ottorino Rossi Award at Pavia, Italy.
 - Attending the **Computational Neuroscience 2013 meeting** – Paris, France.
- 2012: - Course of 'Neuroscience' by Professor Egidio D'Angelo at Almo Collegio Borromeo, Pavia, Italy.

POSTER AND ABSTRACT PRESENTATIONS

- Venturino A., Rizza M., Pedrazzoli M., Perin P.: *Trying hard not to listen: the evolution of information processing in vestibular hair cells* poster #317, **CNS 2013 meeting**, Paris, **France**, July 2013.
- Perin P., Venturino A., Oda A., Losurdo M., Pedrazzoli M., Pizzala R.: *"Dorsal cochlear nuclei microgliosis and circuit imbalance in rat tinnitus models"* Poster Session D16 - Auditory Poster boards; D001-019, **9th FENS Forum of Neuroscience**- Milan, **Italy**, 2014.
- Pedrazzoli M., Buffelli M.: *"Assessment of the Role of Glucocorticoids on Dendritic Spine Turnover in Alzheimer's Disease Animal Model"* Poster P319 - **67° Congresso della Società Italiana di Fisiologia**, Catania, **Italy**, 2016.
- Pedrazzoli M., Olivieri D., Antolini M., Buffelli M.: *"Role of Glucocorticoid Receptors on Dendritic Spine Plasticity in an Alzheimer's Disease Animal Model"* poster #0.43 - ADPD7-1719, **13th International Conference on Alzheimer's and Parkinson's Diseases**, Vienna, **Austria**, 2017.
- Pedrazzoli M., Borin M., Antolini M., Marchiotto F., Buffelli M.: *"Role of Glucocorticoids on Dendritic Spine Plasticity during onset and progression of Alzheimer's Disease in 3xTg-Ad Mice"* poster #110, **Life Science PhD Meeting Innsbruck**, **Austria**, 2017.
- Pedrazzoli M., Borin M., Antolini M., Marchiotto F., Avesani A., Buffelli M.: *"Dissecting the effects of glucocorticoids on dendritic spine plasticity, neurogenesis and inflammation in 3xTg-AD mice hippocampus"* - **68th Congress of Italian Physiology Society**, Pavia, **Italy**, 2017.
- Pedrazzoli M., Borin M., Antolini M., Marchiotto F., Avesani A., Buffelli M.: *"Evaluation of Glucocorticoids Effects on Dendritic Spine Plasticity, Neurogenesis and Inflammation in 3xTg-Ad Mice Hippocampus"* - **17th Congress of Italian Society for Neuroscience**, Ischia, **Italy**, 2017.
- Bertero, A.; Liska, A.; Parolisi, R.; Gritti, M.; Pedrazzoli, M.; Gergely, D.; Valetti, G.; Galbusera, A.; Sarica, A.; Cerasa, A.; Buffelli, M.; Tonini, R.; Buffo, A.; Pasqualetti, M.; Gozzi, A.: *"Autism-associated 16p11.2 microdeletion impacts prefrontal connectivity in humans and mice"*. **Society for Neuroscience 47th Annual Meeting** - Washington City, **USA**, 2017.
- Pedrazzoli M., Borin M., Antolini M., Marchiotto F., Losurdo M., Coco S., Buffelli M.: *"Modulation of dendritic spine plasticity, neuroinflammation and neurogenesis in 3XTG-AD mice hippocampus through glucocorticoid receptors"*. **AAT-AD/DP Focus Meeting**, Torino, **Italy**, 2018.
- Losurdo, M.; Saccomano, A.; Pedrazzoli, M.; Lonati, E.; Rizzi, L.; Molteni, L.; Elia, C.; Dander, E.; Pischiutta, F.; D'Amico, G.; Torsello, A.; Zanier, E.; Matteoli, M.; Bulbarelli, A.; Buffelli, M.; Coco, S.: *"Analysis of the immunomodulatory potential of mesenchymal stem cell-derived extracellular vesicles in an model of Alzheimer's disease"*. **AAT-AD/DP Focus Meeting**, Torino, **Italy**, 2018.

- Pedrazzoli M., Losurdo M., Paolone G., Rossato B., Avesani A., Coco S., Buffelli M.;
“*Glucocorticoid receptor modulation alters spine plasticity, inflammation and behavior performance in 3xTg-AD mice*”. **Brainstorming Research Assembly for Young Neuroscientists**, Genoa, **Italy**, 2018.
- Pedrazzoli M., Losurdo M., Paolone G., Avesani A., Coco S., Buffelli M.;
“*Glucocorticoids deeply affect spine plasticity and inflammation in an animal model of Alzheimer’s Disease*” **11th FENS Forum of Neuroscience**, Berlin, **Germany**, 2018.

Io sottoscritto Matteo Pedrazzoli dichiaro che i dati sopra esposti sono esatti e corrispondono al vero. Autorizzo al trattamento dei miei dati personali e professionali ai sensi della Legge n. 196/2003.