

PERSONAL INFORMATION

Raffaella Mariotti



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Sex F | *Date of birth* 27/06/1968 | *Nationality* Italy

Enterprise	University	EPR
<input type="checkbox"/> Management Level	<input type="checkbox"/> Full professor	<input type="checkbox"/> Research Director and 1st level Technologist / First Researcher and 2nd level Technologist
<input type="checkbox"/> Mid-Management Level	<input checked="" type="checkbox"/> Associate Professor	<input type="checkbox"/> Level III Researcher and Technologist
<input type="checkbox"/> Employee / worker level	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

WORK EXPERIENCE

1/10/2021 Associate Professor in Histology and Embriology

1991-1994 Intern Student at the Institute of Pharmacology, at the University of Genoa. (Supervisor: Prof. Maurizio Raiteri).

1994 Research assistant at the Laboratory of Cell Biology, Section of Neuroanatomy. National Institute of Mental Health, Bethesda, MD (Supervisor: Dr Charles R. Gerfen).

1995-1997 Research assistant at the Department of Morphological and Biomedical Sciences, Section of Anatomy and Histology, of the University of Verona, Italy (Supervisor: Prof. Marina Bentivoglio). During this time, I carry out a research project at the Karolinska Institute, Stockholm, Sweden (Supervisor: Prof. K. Kristensson).

1997-2000 PhD student in Neuroscience at the Department of Morphological and Biomedical Sciences, Section. of Anatomy and Histology, of the University of Verona, Italy (Supervisor: Prof. Marina Bentivoglio).

I learned the histochemical and immunohistochemical techniques used for the study of the central nervous system and applied them to light microscopy. I also acquired experience in molecular biology techniques and cell culture. I focused my research on the molecular and cellular correlates of motor-neuronal cell damage; in particular, on nitric oxide induction and glial activation, I also spent time at the Institute of Anatomy of the University of Freiburg Switzerland (Supervisor: Prof. Marco Celio). PhD degree awarded 9/2/2001.

1999-2000 Was awarded the annual scholarship from the Kemali Foundation to undertake a year of study at the Karolinska Institute, Stockholm, Sweden (Supervisor: Prof. K. Kristensson).

2001-Post-Doc fellow at the Department of Morphological and Biomedical Sciences, Section. of Anatomy and Histology, of the University of Verona, Italy (Supervisor: Prof. Marina Bentivoglio).

1/10/2001- Awarded research fellowship by the Medical Faculty of the University of Verona to continue studies in the Department of Biomedical Sciences, Section of Anatomy and Histology.

2002-2003 Research fellowship by the Medical Faculty of the University of Verona

Department of Biomedical Sciences, Section of Anatomy and Histology.
2003-2006 Research fellowship Motor Science Faculty of the University of Verona
1/10/2007 Assistant Professor in Histology at the Medical Faculty of the University of Verona Department of Neurological and Biomedical and Movement Sciences.

BIBLIOMETRICS OVERVIEW

05/12/2017 Abilitazione Scientifica Nazionale (ASN) -Associate Professor- in SSD BIO/17

14/06/2021 Abilitazione Scientifica Nazionale (ASN) -Full Professor- in SSD BIO/17

From Scopus: total number of publications:49; the total number of citations:1866 in 15 years; h-index:22

EDUCATION AND TRAINING

1991-1994 Intern Student at the Institute of Pharmacology, at the University of Genoa. (Supervisor: Prof. Maurizio Raiteri).

12-07-1994 Full Degree in Biology, University of Genoa

1994-1995 Research assistant at the Laboratory of Cell Biology, Section of Neuroanatomy. National Institute of Mental Health, Bethesda, MD (Supervisor: Dr Charles R. Gerfen).

1995-1997 Research assistant at the Department of Morphological and Biomedical Science, University of Verona, Italy (Supervisor: Prof. Marina Bentivoglio).

9/2/2000 PhD Degree in Neuroscience University of Verona.

1/10/2007 Assistant Professor in Histology at the Medical Faculty of the University of Verona Department of Neurological and Biomedical and Movement Sciences.

1/10/2021 Associate Professor in Histology at the Medical Faculty of the University of Verona Department of Neurological and Biomedical and Movement Sciences.

PERSONAL SKILLS

Mother tongue Italian

Another language English

Affiliation to scientific societies Member of *Gruppo Italiano per lo Studio della Neuromorfologia* (GISN).
 Member of *Società Italiana di Neuroscienze* (SINS).
 To 2019 Section Editor of open access “Scientific Reports – Nature” IF4.6.
 Invited speaker: invited to 20 conferences and workshops as a keynote or symposium speaker or lectures in Universities or research centres.
 From 2007 to 2007 Tutoring and supervision of PhD theses in the PhD course in Neuroscience, Psychological and Psychiatric Sciences, Life and Health Sciences, University of Verona

PUBLICATIONS

Rossi B, Virla F, Angelini G, Scambi I, Bani A, Marostica G, Caprioli M, Anni D, Furlan R, Marzola P, Mariotti R, Constantin G, Bonetti B, Turano E
 Intranasal Administration of Extracellular Vesicles Derived from Adipose Mesenchymal Stem Cells Has Therapeutic Effect in Experimental Autoimmune Encephalomyelitis. (2025)
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 Administration of adipose-derived stem cells extracellular vesicles in a murine model of spinal muscular atrophy: effects of a new potential therapeutic strategy. (2024)
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 Front Immunol. Feb 9;15:1343892.

Turano E, Scambi I, Bonafede R, Dusi S, Angelini G, Lopez N, Marostica G, Rossi B, Furlan R, Constantin G, Mariotti R, Bonetti B
 Extracellular vesicles from adipose mesenchymal stem cells target inflamed lymph nodes in experimental autoimmune encephalomyelitis. (2024)
 Cytotherapy. Jan 15:S1465-3249

Brozzetti, L., Scambi, I., Bertoldi, L., Zanini, A., Malacrida, G., Sacchetto, L., Baldassa, L., Benvenuto, G., Mariotti, R., Zanusso, G., Cecchini, M.P.
 RNAseq analysis of olfactory neuroepithelium cytological samples in individuals with Down syndrome compared to euploid controls: a pilot study (2023)
 Neurological Sciences, 44 (3), pp. 919-930.

Turano, E., Scambi, I., Virla, F., Bonetti, B., Mariotti, R.
 Extracellular Vesicles from Mesenchymal Stem Cells: Towards Novel Therapeutic Strategies for Neurodegenerative Diseases (2023) International Journal of Molecular Sciences, 24 (3).

Parrella, E., Porrini, V., Scambi, I., Gennari, M.M., Gussago, C., Bankole, O., Benarese, M., Mariotti, R., Pizzi, M.
 Synergistic association of resveratrol and histone deacetylase inhibitors as treatment in amyotrophic lateral sclerosis (2022) Frontiers in Pharmacology, 13,

Bankole, O., Scambi, I., Parrella, E., Muccilli, M., Bonafede, R., Turano, E., Pizzi, M., Mariotti, R. Beneficial and Dimorphic Response to Combined HDAC Inhibitor Valproate and AMPK/SIRT1 Pathway Activator Resveratrol in the Treatment of ALS Mice (2022) International Journal of Molecular Sciences, 23 (3).

Bonafede, R., Turano, E., Scambi, I., Busato, A., Bontempi, P., Virla, F., Schiaffino,

L., Marzola, P., Bonetti, B., Mariotti, R.
ASC-exosomes ameliorate the disease progression in SOD1(G93A) murine model underlining their potential therapeutic use in human ALS (2020) International Journal of Molecular Sciences, 21 (10).

Fattoretti, P., Malatesta, M., Mariotti, R., Zancanaro, C.
Testosterone administration increases synaptic density in the gyrus dentatus of old mice independently of physical exercise (2019) Experimental Gerontology, 125.

Bonafede, R., Brandi, J., Manfredi, M., Scambi, I., Schiaffino, L., Merigo, F., Turano, E., Bonetti, B., Marengo, E., Cecconi, D., Mariotti, R.

The anti-apoptotic effect of ASC-exosomes in an in vitro ALS model and their proteomic analysis (2019) *Cells*, 8 (9).

Gajofatto, A., Donisi, V., Busch, I.M., Gobbin, F., Butturini, E., Calabrese, M., Carcereri De Prati, A., Cesari, P., Del Piccolo, L., Donadelli, M., Fabene, P., Fochi, S., Gomez-Lira, M., Magliozzi, R., Malerba, G., Mariotti, R., Mariotto, S., Milanese, C., Romanelli, M.G., Sbarbati, A., Schena, F., Mazzi, M.A., Rimondini, M.

Biopsychosocial model of resilience in young adults with multiple sclerosis (BPS-ARMS): An observational study protocol exploring psychological reactions early after diagnosis (2019) *BMJ Open*, 9 (8),

Calabria, E., Scambi, I., Bonafede, R., Schiaffino, L., Peroni, D., Potrich, V., Capelli, C., Schena, F., Mariotti, R.

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Schiaffino, L., Bonafede, R., Scambi, I., Parrella, E., Pizzi, M., Mariotti, R.

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Farinazzo, A., Angiari, S., Turano, E., Bistaffa, E., Dusi, S., Ruggieri, S., Bonafede, R., Mariotti, R., Constantin, G., Bonetti, B.

Nanovesicles from adipose-derived mesenchymal stem cells inhibit T lymphocyte trafficking and ameliorate chronic experimental autoimmune encephalomyelitis (2018) *Scientific Reports*, 8 (1).

Kassa, R.M., Bonafede, R., Boschi, F., Malatesta, M., Mariotti, R.

The role of mutated SOD1 gene in synaptic stripping and MHC class I expression following nerve axotomy in ALS murine model (2018) *European Journal of Histochemistry*, 62 (2), art. no. 2904, pp. 158-165.

Santangelo, A., Imbrucè, P., Gardenghi, B., Belli, L., Agushi, R., Tamanini, A., Munari, S., Bossi, A.M., Scambi, I., Benati, D., Mariotti, R., Di Gennaro, G., Sbarbati, A., Eccher, A., Ricciardi, G.K., Ciceri, E.M., Sala, F., Pinna, G., Lippi, G., Cabrini, G., Dehecchi, M.C.

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Malatesta, M., Sbarbati, A., Marzola, P., Mariotti, R.
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adipose stem cells (2017) *Current Protocols in Cell Biology*, 2017, pp. 3.44.1-
3.44.15.

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and extracellular vesicles (2017) *Frontiers in Cellular Neuroscience*, 11.

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nerve axotomy in ALS murine model
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concomitant to loss of hippocampal interneurons in the presymptomatic
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Mariotti, R., Vitale, E., De Nicola, S., Longo, A., Cristino, L.
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in vivo study (2015) *Journal of Biomedical Materials Research - Part A*, 103 (4),
pp. 1436-1446.

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hippocampal cortex of old mice (2014) *Journal of Nutrition, Health and Aging*, 18
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mesenchymal stem cells ameliorates clinical and pathological features in the
amyotrophic lateral sclerosis murine model (2013) *Neuroscience*, 248, pp. 333-
343.

Cappello, V., Vezzoli, E., Righi, M., Fossati, M., Mariotti, R., Crespi, A., Patruno,
M., Bentivoglio, M., Pietrini, G., Francolini, M.
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in the SOD1G93A
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M., Bendotti, C., Poletti, A.
The anabolic/androgenic steroid nandrolone exacerbates gene expression modifications induced by mutant SOD1 in muscles of mice models of amyotrophic lateral sclerosis (2012) *Pharmacological Research*, 65 (2), pp. 221-230.

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Forced mild physical training-induced effects on cognitive and locomotory behavior in old mice (2008) *Journal of Nutrition, Health and Aging*, 12 (6), pp. 388-390.

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Kassa, R.M., Bentivoglio, M., Mariotti, R.
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Altered reaction of facial motoneurons to axonal damage in the presymptomatic phase of a murine model of familial amyotrophic lateral sclerosis (2002) *Neuroscience*, 115 (2), pp. 331-335.

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Mariotti, R., Tongiorgi, E., Bressan, C., Armellin, M., Kristensson, K., Bentivoglio, M.
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Mariotti, R., Bentivoglio, M.
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