

PERSONAL INFORMATION



Raffaella Mariotti

The University of Verona
 Dept. Neuroscience Biomedicine and Movement
 37134, Verona, Italy
 045 8027164 3397819833

raffaella.mariottinivr.it

<https://www.dnbn.univr.it/?ent=persona&id=1514>

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

Enterprise	University	EPR
☐ Management Level	☐ Full professor	☐ Research Director and 1st level Technologist / First Researcher and 2nd level Technologist
☐ Mid-Management Level	☒ Associate Professor	☐ Level III Researcher and Technologist
☐ Employee / worker level	☐ Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	☐ 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:40; the total number of citations:1263 in 15 years; h-index:20

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 at 20 conferences and workshops as a keynote or symposium speaker or lectures in Universities or research centres.
 To 2007 Tutoring and supervision of PhD theses of the PhD course in Neuroscience, Psychological and Psychiatric Sciences, Life and Health Sciences, University of Verona

PUBLICATIONS

Marastoni D, Foschi M, Eccher C, Crescenzo F, Mazziotti V, Tamanti A, Bajrami A, Camera V, Ziccardi S, Guandalini M, Bosello F, Anni D, Virla F, Turano E, Romoli M, Mariotti R, Pizzini FB, Bonetti B, Calabrese M.

CSF levels of Chitinase3like1 correlate with early response to cladribine in multiple sclerosis. (2024)

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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)

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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.

Ascs-exosomes recover coupling efficiency and mitochondrial membrane potential in an in vitro model of ALS (2019) *Frontiers in Neuroscience*, 13

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

Acetylation state of RelA modulated by epigenetic drugs prolongs survival and induces a neuroprotective effect on ALS murine model (2018) *Scientific Reports*, 8 (1).

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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Bontempi, P., Busato, A., Bonafede, R., Schiaffino, L., Scambi, I., Sbarbati, A., Mariotti, R., Marzola, P.

MRI reveals therapeutical efficacy of stem cells: An experimental study on the SOD1(G93A) animal model (2018) *Magnetic Resonance in Medicine*, 79 (1), pp. 459-469.

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Malatesta, M., Sbarbati, A., Marzola, P., Mariotti, R.
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(2018) *European Journal of Histochemistry*, 62 (2), art. no. 2904, pp. 158-165.

Quarta, E., Bravi, R., Scambi, I., Mariotti, R., Minciacchi, D.
Increased anxiety-like behavior and selective learning impairments are concomitant to loss of hippocampal interneurons in the presymptomatic SOD1(G93A) ALS mouse model (2015) *Journal of Comparative Neurology*, 523 (11), pp. 1622-1638.

Imperatore, R., Carotenuto, G., Di Grazia, M.A., Ferrandino, I., Palomba, L., Mariotti, R., Vitale, E., De Nicola, S., Longo, A., Cristino, L.
Imidazole-stabilized gold nanoparticles induce neuronal apoptosis: An in vitro and in vivo study (2015) *Journal of Biomedical Materials Research - Part A*, 103 (4), pp. 1436-1446.

Mariotti, R., Fattoretti, P., Malatesta, M., Nicolato, E., Sandri, M., Zancanaro, C.
Forced mild physical training improves blood volume in the motor and hippocampal cortex of old mice (2014) *Journal of Nutrition, Health and Aging*, 18 (2), pp. 178-183.

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Cappello, V., Vezzoli, E., Righi, M., Fossati, M., Mariotti, R., Crespi, A., Patruno, M., Bentivoglio, M., Pietrini, G., Francolini, M.
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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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Kassa, R.M., Mariotti, R., Bonaconsa, M., Bertini, G., Bentivoglio, M.
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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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Physical training is associated with changes in Nuclear magnetic resonance and morphometrical parameters of the skeletal muscle in senescent mice (2007) *European Journal of Histochemistry*, 51 (4), pp. 305-309.

Kassa, R.M., Bentivoglio, M., Mariotti, R.
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Mariotti, R., Tongiorgi, E., Bressan, C., Kristensson, K., Bentivoglio, M.
Priming by muscle inflammation alters the response and vulnerability to axotomy-induced damage of the rat facial motor nucleus (2002) *Experimental Neurology*, 176 (1), pp. 133-142.

Mariotti, R., Tongiorgi, E., Bressan, C., Armellin, M., Kristensson, K., Bentivoglio, M. Retrograde response of the rat facial motor nucleus to muscle inflammation elicited by phytohaemagglutinin (2001) *European Journal of Neuroscience*, 13 (7), pp. 1329-1338.

Mariotti, R., Bentivoglio, M.
Activation and response to axotomy of microglia in the facial motor nuclei of G93A superoxide dismutase transgenic mice (2000) *Neuroscience Letters*, 285 (2), pp. 87-90.

Mariotti, R., Peng, Z.-C., Kristensson, K., Bentivoglio, M.
Age-dependent induction of nitric oxide synthase activity in facial motoneurons after axotomy (1997) *Experimental Neurology*, 145 (2 I), pp. 361-370.

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Botulinum toxin induces nitric oxide synthase activity in motoneurons (1996) *Neuroscience Letters*, 219 (1), pp. 25-28.