

## CV MILANESE MARCO



### MARCO MILANESE, PhD

Date of birth: 9th Sept. 1979

Affiliation: University of Genoa, Dept. of Pharmacy –  
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### EDUCATION & CAREER

2018. Positive assessment (subsec. 5, art. 24, law 2010/240) for the advancement to Associate Professor at the Dept. of Pharmacy, Univ. of Genoa, Italy.

2017. National Scientific Qualification (ASN) positive assessment for the advancement to Associate Professor (subsec. 1 art. 16, law 2010/240).

2009. PhD in Biochemistry, Univ. of Genoa - Genoa – Italy; Ph.D School of Molecular and Clinical Experimental Medicine and Biology.

2005. Degree in Pharmaceutical Chemistry and Technology (cum laude), Univ. of Genoa - Genoa – Italy.

### PERSONAL STATEMENT

Since 2005 Marco Milanese is member of a research Unit working in the field of neuropharmacology and neurosciences. Marco Milanese holds a long-lasting experience in training undergraduate students and PhD student and managing a biological research laboratory with a broad panel of expertise. The scientific research of Marco Milanese started focusing on neurotransmission and related molecular mechanisms underlying neurodegenerative processes: release of neuro- and glio-transmitters and modulation systems, pre-synaptic proteins, pharmacological characterizations of pre- and post-synaptic glutamatergic receptors, physiological and pathological implications; an aspect that has characterized the scientific research of Marco Milanese, is based on the study of glutamatergic neurotransmission linked to excitotoxicity in neurodegenerative diseases, with particular interest on motor neuron diseases (MND) and amyotrophic lateral sclerosis (ALS); with regard to these aspects, the main expertise exploited by Marco Milanese are characterized by in-vivo behavioural studies, ex-vivo and in-vitro functional studies to evaluate the clinical progression and the molecular dysfunctions underlying neurodegenerative diseases and/or other neurological disorders. The areas of investigation and research, in the context of ALS, have expanded towards in vitro studies on astrocytes, microglia, oligodendrocytes and motoneurons primary cell cultures, obtained from experimental mouse models of ALS. Another area of research of Milanese Marco is represented by the study of acute and chronic stress events and their correlation with neurological disorders such as depression and post-traumatic stress disorder (PTSD) and pharmacological treatments aimed at restoring the alteration of glutamatergic and GABAergic neurotransmission.

Marco Milanese holds active scientific collaborations with various National and International research groups, as intelligible from the publication track record: IIT Genova; ETT Genova; Istituto Gaslini Genova; CNR Genova and Pisa; SISSA Trieste; Mario Negri Institute, Milan; University of Milan; University of Firenze; University of Ancona; University of Naples; University of Calabria; University of Turin; MRC Toxicology Unit Leicester UK; Neurotune Research Switzerland; METHYS Pharmaceutical, Switzerland; IONIS Pharmaceutical Inc. USA; Center for Neurogenomics and Cognitive Research, VU University Amsterdam; Sheffield Institute of Translational Neuroscience (SITraN), University of Sheffield; VIB Vesalius Research Center KU Leuven, Belgium, Université de Lausanne, Maastricht University.

### WORK EXPERIENCE and POSITIONS:

2018-current. Associate Professor of pharmacognosy and pharmacology; Dept. of Pharmacy, Univ. of Genoa, Italy. (14 publ. produced in this period)

2018-current. Lecturer of pharmacology, Degree Course in Dental Hygiene. School of Medical and Pharmaceutical Sciences, University of Genoa.

2013-current. Lecturer of pharmacognosy, Degree Courses in Pharmaceutical Chemistry and Pharmacy; School of Medical and Pharmaceutical Sciences, Department of Pharmacy, University of Genoa.

2012-2018. Researcher; Dept. of Pharmacy, Pharmacology and Toxicology Unit, Univ. of Genoa, Italy. (30 publ. produced during this experience)

2009-2012. Postdoctoral fellow; Dept. of Exp. Medicine, Pharmacology and Toxicology Unit, Univ. of Genoa, Italy. (13 publ. produced during this experience).

2008. Visiting scientist, MRC Toxicology Unit, Apoptosis and Cancer Group, Leicester, UK. (1 publ. produced during this experience).

2006-2009. PhD student; Dept. of Exp. Medicine, Pharmacology and Toxicology Unit, Univ. of Genoa, Italy. (9 publ. produced during this experience).

2003-2005. Undergraduate internship: Dept of Exp. Medicine, Pharmacology and Toxicology Unit, Univ. of Genoa, Italy.

#### OTHER EXPERIENCES:

2022-. Member of the Didactic Committee for the Academic Courses of Pharmaceutical Chemistry and Technology and Pharmacy, Department of Pharmacy, University of Genoa.

2020 - . Coordinator of the Pharmacology and Toxicology Unit, Department of Pharmacy, University of Genoa.

2019 - . Member of the Mentoring and Orientation Committee, Department of Pharmacy, University of Genoa.

2017 - . Member of the Editorial Board of J. Pharmacology and Toxicology

2017 - . Member of the Athenaeum Committee Scienze della Vita

2017 - . Member of the Inter-Universitary Center for the Promotion of the Principles of the 3Rs in Teaching and Research.

2017 - . Director of the on-line scientific newsletter "SIF giovani Journal club"

2016 - . Member of the Center of Excellence for the study of molecular mechanisms of cell communication: from basic research to clinical practice (CEBR).

2016 - . Member of the Editorial Board of Austin J. Pharmacology & Pharmaceutics

2015 - 2017. Member of Committee for young researcher, Italian Pharmacology Society.

2014 - . Member of the Steering Committee for the Biomedical Sciences - Istituto Studi Superiori – IANUA-ISSUGE Univ. of Genoa.

2014 - . Member of the editorial series "SIF ricerca di base" [ISSN 2465-1079]

2013 - . Member of the Academic Board of the PhD School of Mol. and Clin. Exp. Med. and Biol. (DOT1311778), Univ. of Genoa.

2013-2017. Member of the Editorial Board of Hindawi J. Advances in Neuroscience.

2012-2017. Member of the Editorial Board of Hindawi Scientifica J. Neuroscience Subject Area.

2011 - . Member of the Italian Society of Pharmacology (SIF).

2007 - . Member of the Federation of European Neurosciences (FENS).

2007 - . Member of the Italian Society of Neuroscience (SINS).

2006 - . National license for the professional career of Pharmacist.

#### EDITORIAL AND REVIEWER ACTIVITIES

- Editorial activities: Guest editor for a Special issue published in Biomolecules (MDPI Editor).

- Editorial Board member: Advances in Neuroscience-Hindawi Publishing Corporation; Scientifica Journal-Neuroscience Hindawi Publishing Corporation.

- Reviewer for peer-review scientific journals: Biomolecules, International journal of molecular sciences, Scientific Reports, Frontiers in cellular neuroscience, Frontiers in neuroscience; Frontiers in Aging neuroscience, Frontiers in pharmacology, Brain, Cell transplantation, Advances in Pharmacological Sciences, Annals of neurodegenerative disorders, Scientifica Journal-Neuroscience.

- Reviewer for Project Grant peer review process: Motor Neuron Disease Association (UK) project grants, University of Florence and Cassa di Risparmio di Firenze foundation for neurodegenerative disease research projects.

- Registered in the international MIUR Register of Expert Peer-Reviewers for Italian Scientific Evaluation (REPRISE).

#### HONORS AND AWARDS:

2019 "Miltenyi Biotec Astrocyte Award". Miltenyi Biotec

2017 "SIF Ricerca di Base" Award

2016 "SIF Ricerca di Base" Award

2016 The best oral presentation award; "Controversies in Neurodegeneration" – Catania 9-10 June, 2016.

2015 "SIF Ricerca di Base" Award

2012 SINS travel grant for the "XIV Italian society for Neuroscience"

2010 SINS Travel Grant for the “7th FENS Forum of European Neuroscience”  
2009 SINS Travel Grant for the “13th Congress of the Italian Society for Neuroscience”  
2006 The best poster award; “XV° Congress Italian Society of Neuropsychopharmacology.

ROLES IN RESEARCH PROJECTS INVOLVING ANIMALS FOR SCIENTIFIC PURPOSE (APPROVED BY THE MINISTRY OF HEALTH)

2010 – 2013. Role as personnel involved in the execution of the experiments in research projects (Project Manager Prof. G. Bonanno).  
2013 – 2017. Role as head of the execution of the experiments in research projects (Project Manager Prof. G. Bonanno).  
2017 – today. (after Legislative Decree 26/2014). Role as head of the execution of the experiments in research projects (Project Manager Prof. G. Bonanno – approval No. 97/2017-PR; 482/2017-PR).  
2020 – today. (after Legislative Decree 26/2014). Role as Project Manager (approval No. 1022/2020-PR).

MEETING ATTENDANCE & ORAL COMMUNICATIONS (selected by the scientific Committee or invited talk):

Marco Milanese is author of more than 140 contributions to National&International scientific meetings: 50 as first/last author and gives 16 talks as invited speaker or selected by Scientific Committees.

1. 2022 - *The mGlu5 receptor negative allosteric modulator CTEP improves the ALS disease course in an in-vivo pre-clinical study.* 41th Congress of the Italian Pharmacological Society, Rome, 16-19 November.
2. 2022 - *microRNAs shuttled by extracellular vesicles derived from mesenchymal stem cells rescue glial activation in in-vitro models of amyotrophic lateral sclerosis.* 35th world congress on Pharmacology, 01 August – on-line event.
3. 2021 - *In-vivo and in-vitro evidence supporting the role of mGlu5 receptor as a key regulator of glutamate downstream effects in ALS.* 19th Italian Society for Neuroscience National Congress, 9-11 September, Brescia. – on-line event.
4. 2021 - *In-vitro and in-vivo studies depict metabotropic glutamate receptor 5 as a potential pharmacological target to modulate disease progression in ALS.* 40th Congress of the Italian Pharmacological Society, Rome, 9-13 Marzo – on-line event.
5. 2021 - *In-vivo and in-vitro evidence supporting the mGlu5 receptor as a pharmacological target for amyotrophic lateral sclerosis.* 34th world congress on Pharmacology, 16-17 August – on-line event.
6. 2020 - *Modulating the reactive phenotype of astrocytes as a therapeutic approach in amyotrophic lateral sclerosis.* Motor neuron diseases: understanding the pathogenetic mechanisms to develop therapies, Turin, 6-7 Novembre 2020.
7. 2019 - *The pathological role of astrocytes in amyotrophic lateral sclerosis: therapeutic effects of exosomes deriving from mesenchymal stem cells on mouse and human primary cell cultures.* 39th Congress of the Italian Pharmacological Society, Firenze, 20-23 Novembre.
8. 2019 - *Edible flowers and safety: characterization of the toxicological profile.* Workshop Project ANTEA - Interreg Alcotra Programme. pHealth 2019, Genova, Italia, 10 – 12 Giugno 2019.
9. 2018 - *Exosome-shuttled miRNAs derived from mesenchymal stem cells modulate in-vitro the reactive phenotype of amyotrophic lateral sclerosis glial cells.* “Glial cells and therapeutic perspectives: from maladaptive plasticity to neuro-restoration”. Monothematic Congress of the Italian Society of Pharmacology, Firenze, 29 Giugno.
10. 2017 - *Targeting Group I metabotropic glutamate receptors in ALS.* 38th Congress of the Italian Pharmacological Society, Rimini, 24-28 Ottobre.
11. 2016 - *Astrocyte contribution to the excessive glutamate release in the spinal cord of the SOD1<sup>G93A</sup> mouse model of amyotrophic lateral sclerosis* “More than neuron. Towards a less neuronocentric view of brain disorder”, Torino, 1-3 Dicembre.
12. 2016 - *miRNAs shuttled by exosomes derived from primed-MSCs affect the activated-microglia phenotype and possibly support the therapeutic effects of MSC administration in SOD1G93A mice.* “Controversies in Neurodegeneration” Monothematic Congress of the Italian Society of Pharmacology, Catania, 9-10 Giugno.
13. 2015 - *Group I metabotropic glutamate receptors and neurotoxicity in amyotrophic lateral sclerosis.* Symposium Title: the complexity of motor neuron diseases; 16th Congress of the Italian Society for Neuroscience, Cagliari, 8-11 Ottobre.
14. 2014 - *Investigating the role of group I metabotropic glutamate receptors in amyotrophic lateral sclerosis.* Looking inside neurons for a better pharmacological intervention: the contribution of imaging to the study of neurodegenerative diseases. Monothematic Congress of the Italian Society of Pharmacology, Catania, 20 Giugno.
15. 2013 - *Amyotrophic lateral sclerosis and excitotoxicity: role of Group I metabotropic glutamate receptors*

Symposium Title: Amyotrophic lateral sclerosis, a multifactorial neurodegenerative disease; 15th Congress of the Italian Society for Neuroscience, Roma, 3-5 Ottobre.

16. 2010 - *Abnormal and precocious exocytotic glutamate release in the spinal cord of a mouse model of amyotrophic lateral sclerosis*. New Perspectives in Neuroscience: Joint Meeting of Young Italian and Japanese Neuroscientists, Naples, 21 Settembre.

#### RESEARCH GRANTS:

2022: Italian Ministry of Health (Progetti ordinari di Ricerca Finalizzata, call 2021) - (36 months; Participant)  
2022: Italian Ministry of Health (POS call 2021): Hybrid Hub (H2UB) - (48 months; Participant)  
2020: AriSLa Full Project (call 2019): GPR17ALS (36 months; 80000€, Participant)  
2019: AriSLa Pilot Project (call 2018): GPR17ALS (15000€, Participant)  
2019: Italian MIUR PRIN Project (90000€, Participant)  
2018: Financial agreement, Methys Pharmaceutical, Switzerland (27000€, Principal Investigator)  
2018: San Paolo Project– ROL 20571 (36 months, 167000€, Participant)  
2017: European Project– Interreg. V-A France-Italy – ALCOTRA: ANTEA (50000€, Participant)  
2017: MNDA Biomedical Research Project– UK -: Apr16/848-791 (2017-2019, 115,000£, Participant)  
2016: AriSLa Pilot Project (call 2016): GPR17ALS (15000€, Participant)  
2016: Italian MIUR PRIN Project (call 2015): 2015HRE757 (110000€, Participant)  
2015: Italian MIUR - SIR Project (Scientific Independence of young Researchers): RBS114B1Z1 (358000€, Principal Investigator)  
2013: Athenaeum Project - University of Genoa (Principal Investigator)  
2012: Athenaeum Project - University of Genoa (Principal Investigator)  
2012: Italian MIUR PRIN Project: 2012A9T2S9\_002 (Participant)  
2009: Italian MIUR PRIN Projects: 2009BRMW4W\_002; 2009R7WCZS\_003; 2009P7WHNR\_003 (Participant)  
2008: Italian MIUR PRIN Project: 2008LCKEXC\_003 (Participant)

#### BIBLIOMETRIC INDECES (Scopus):

Author of 67 papers on peer-reviewed journals.

Total impact factor: 318.53, average impact factor: 4.826; total citations received: 1927; H-index: 25; Cite score average 5.655.

Scopus Author ID: 7006104240

ResearcherID: C-4444-2013

ORCID ID: [orcid.org/0000-0003-3384-0666](https://orcid.org/0000-0003-3384-0666)

ASN threshold for the Full Professor position: 10 years publications: 47 (threshold: 25), 15 years total citations: 1734 (threshold: 864), 15 years H-index: 24 (threshold: 17).

For Member of the ASN board Committee: 10 years publications: 46 (threshold: 39), 15 years total citations: 1734 (threshold: 1673), 15 years H-index: 24 (threshold: 23).

VQR evaluation 2011-2014: excellent

VQR evaluation 2015-2019: excellent

#### LIST OF PUBLICATIONS:

1. Bonifacino et al., 2022; PMID: 36552791
2. Provenzano et al., 2022; PMID: 36497181
3. Sala et al., 2022; PMID: 35370690
4. Kumar et al., 2022; PMID: 35327542
5. Giunti et al., 2021; PMID: 33462263
6. Bonifacino et al., 2021; PMID: 34830115
7. Marini et al., 2021; PMID: 34573024
8. Bonalume et al., 2021; PMID: 34174096
9. Milanese et al., 2021; PMID: 33931856
10. Burlando et al., 2020; PMID: 33332476
11. Marini et al., 2020; PMID: 32638178
12. Bonfanti et al., 2020; PMID: 3224429
13. Bonifacino et al., 2019; PMID: 31540330

14. Ravera et al., 2019; PMID: 31282572
15. Bonifacino et al., 2019; PMID: 31102766
16. Tornese et al., 2019; PMID: 31193464
17. Cerrato et al., 2018; PMID:29732603
18. Ravera et al., 2018; PMID:29656361
19. Bosco et al., 2018; PMID:29508281
20. Bonifacino et al., 2017; PMID: 28645622
21. Bonfiglio et al., 2017; PMID: 28125677
22. Romei et al., 2016; PMID: 27565422
23. Bonifacino et al., 2016; PMID: 27425885
24. Bonini et al., 2016; PMID: 26966584
25. Bragina et al., 2015; PMID: 26388733
26. Milanese et al., 2015; PMID: 25497732
27. Carney et al., 2014; PMID: 25151305
28. Stifanese et al., 2014; PMID: 25151305
29. Treccani et al., 2014; PMID: 24535456
30. Treccani et al., 2014; PMID: 24658610
31. Fariello et al., 2014; PMID:24486381
32. Calabrese et al., 2014; PMID: 24424289
33. Milanese et al., 2014; PMID:24361555
34. Begenisic et al., 2014; PMID: 24269730
35. Milanese et al., 2014; PMID: 24273061
36. Ramoino et al., 2014; PMID: 24143028
37. Di Prisco et al., 2013; PMID:23958452
38. Russo et al., 2013; PMID:23936321
39. Milanese et al., 2013; PMID:23895555
40. Scali et al., 2013; PMID: 23860568
41. Pocci M, et al., Polymer Journal , 2013; 45: 1146-1152.
42. Loi, et al., 2013; PMID: 23714122
43. Cervetto, et al., 2013; PMID: 23293841
44. Giribaldi, et al., 2013; PMID:22634363
45. Molinaro, et al., 2013; PMID:22634363
46. Nasrabad, et al., 2012; PMID:22561282
47. Baroncelli, et al., 2012; PMID:22532989
48. Bigini et al., 2012; PMID:22302580
49. Uccelli et al., 2012; PMID:22302580
50. Begenisic et al., 2011; PMID: 22207837
51. Milanese et al., 2011; PMID:21175617
52. Bari et al., 2011; PMID:20711816
53. Tardito et al., 2010; PMID: 20525261
54. Ramoino, et al., 2010; PMID: 20348336
55. Milanese et al., 2010; PMID: 20132478
56. Musazzi, et al., 2010; PMID: 20052403
57. Gallus et al., 2010; PMID:19882419
58. Stifanese et al., 2010; PMID:19880516
59. Rossi et al., 2009; PMID:19706685
60. Milanese et al., 2009; PMID:19607977
61. Bonanno et al., 2009; PMID:19576518
62. Bianchi et al., 2009; PMID:18829665
63. Raiteri et al., 2008; PMID:17597258
64. Paluzzi et al., 2007; PMID:17935604.
65. Bonanno et al., 2007; PMID: 17678956

- 66. Raiteri et al., 2007; PMID:17662048
- 67. Pedrazzi et al., 2006; PMID:16911580

A handwritten signature in blue ink, reading "Marco Milanesi", is positioned above a solid horizontal line.