PERSONAL INFORMATION

Raffaella Molteni
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SCOPUS ID: 7003888920
RESEARCH ID: Q-5011-2017

POSITION

Full Professor of Pharmacology
Head of Bachelor's Programme in Medical Biotechnologies

WORK EXPERIENCE

From November 2020

Full Professor of Pharmacology

Medical Biotechnology and Translational Medicine Dept., University of Milan

- Pharmacology teacher in bachelors, masters and postgraduate programme courses of the Faculty of Medicine
- Head of the Psychoimmunopharmacology and stress-related disorders laboratory
- Faculty member of the “Experimental Medicine” doctoral programme
- Mentor in the Virgilio program

From-October 2016

Head, Laboratory of Psycoimmunopharmacology and Stress-related Disorders

Medical Biotechnology and Translational Medicine Dept., University of Milan

The experimental activity is the field of neuropsychopharmacology, with research primarily oriented to the identification and characterization of molecular mechanisms altered in psychiatric disorders that might represent potential targets for pharmacological treatment aimed at restoring normal brain function. In particular, given the role of stress as crucial environmental risk factor for psychiatric diseases, one of the main goal of the research activity is to study the impact of acute and chronic stress in order to better understand the molecular basis of individual stress vulnerability and resilience. Moreover, the lab is specifically interested to the role of neuroinflammation in the etiology of psychiatric disorders and in the mechanism of action of psychotropic drug.

October 2016-October 2020

Associate Professor of Pharmacology

Medical Biotechnology and Translational Medicine Dept., University of Milan

October 2010-September 2016

Assistant Professor of Pharmacology

Pharmacological and Biomolecular Sciences Dept., University of Milan

January 2003-September 2010

Research Assistant

Pharmacological Sciences Dept., University of Milan

June 2000-December 2002

Postdoctoral Fellow

University of California at Los Angeles (UCLA), Los Angeles, CA, USA
Dept. of Neurosurgery and Dept. of Physiological Science, Brain Injury Research Center
Laboratory of Prof. Fernando Gómez-Pinilla

July 1998-December 1998

Research Fellow

National Institute of Health (NIH), Bethesda, MD, USA
National Institute of Mental Health (NIMH), Clinical Brain Disorders Branch
Laboratory of Drs. Barbara K. Lipska and Daniel R. Weinberger

September 1994-May 2000

Research Associate

Institute of Pharmacological Sciences Dept., Center for Neuropharmacology, University of Milan

EDUCATION AND TRAINING

2000

PhD in "Biotechnology applied to pharmacology"

University of Milan

1996

Specialization in Pharmacology

University of Milan

1994

Master's degree in Pharmaceutical Chemistry and Technology

University of Milan

PERSONAL SKILLS

Mother tongue(s): Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
Common European Framework of Reference for Languages

Communication and Organisational / managerial skills: Good communication skills acquired over years by teaching in University classes and presenting data in national and international conferences.
Good organisational skills acquired in training and supervision of ungraduated and PhD students as well as in organizing and coordinating research teams.

ADDITIONAL INFORMATION

Publications: Author of 76 article on peer review journals

Total Impact Factor:	371,934
Average Impact Factor:	4,894
Total Citations (Scopus)	5866
H-index (Scopus)	40

Congress/Seminar: Speaker and invited speaker at national and international congresses as well as at Italian and foreign research institutions.

Projects/Grants: Recipient of grants from Italian Agencies (Ministry of University), non-profit organizations (FISM-AISM), and pharmaceutical industries.

Membership

- Italian Society of Pharmacology (SIF): member and secretary of the"Neuropsychopharmacology" working group
- Italian Society of Neuropsychopharmacology (SINPF): member
- Italian Society for Neuroecsience (SINS): member
- Neuro-Nest - Neuroscience Network at Statale (Università degli Studi di Milano): member
- American Society for Neuroscience (SFN): member

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ANNEXES

Publication list

Personal information

I authorize the handling of personal information in this curriculum, according to D.Lgs n. 196/03 and following modifications and Regulations EU 679/2016 (General Regulations concerning Data Protection or GRDP) and art. 7 of University Regulations concerning protection of personal information.

I authorize, according to D.lgs 14/03/2013 n. 33 concerning transparency, in case of conferment of the position and of the fellowship, the publication of this curriculum in the web site of Università degli Studi di Milano in the section "Amministrazione trasparente", "Consulenti e collaboratori".

December 15th, 2020

Pubblication list

1	Riva M.A., Tascedda F., **Molteni R**. and Racagni G. Regulation of NMDA receptor subunit mRNA expression in the rat brain during postnatal development. *Molecular Brain Research* 25: 209-216 (**1994**). ISSN: 0169-328X
2	Tascedda F., **Molteni R.**, Racagni G. and Riva M.A. Acute and chronic changes in K^+-induced depolarization alter NMDA and nNOS gene expression in cultured cerebellar granule cells. *Molecular Brain Research* 40: 171-174 (**1996**). ISSN: 0169-328X
3	Riva M.A., **Molteni R**., Lovati E., Fumagalli F. and Racagni G. Cyclic AMP-dependent regulation of fibroblast growth factor-2 messenger RNA levels in rat cortical astrocytes: comparison with fibroblast growth factor-1 and ciliary neurotrophic factor. *Molecular Pharmacology* 49: 699-706 (**1996**). ISSN: 0026-895X
4	Riva M.A., **Molteni R**. and Racagni G. L-deprenyl potentiates cAMP-induced elevation of FGF-2 mRNA levels in rat cortical astrocytes. *NeuroReport* 8: 2165-2168 (**1997**). ISSN: 0959-4965 Q1 (Neuroscience, riferito al 1999)
5	Simonato M., **Molteni R**., Bregola G., Muzzolini A., Piffanelli M., Beani L., Racagni G. and Riva M. Different patterns of induction of FGF-2, FGF-1 and BDNF mRNAs during kindling epileptogenesis in the rat. *European Journal of Neuroscience* 10: 955-963 (**1998**). ISSN: 0953-816X
6	Riva M.A., **Molteni R**. and Racagni G. Differential regulation of FGF-2 and FGFR-1 in rat cortical astrocytes by dexamethasone and isoproterenol. *Molecular Brain Research* 57: 38-45 (**1998**). ISSN: 0169-328X
7	Maggio R., Riva M., Vaglini F., Fornai F., **Molteni R.**, Armogida M., Racagni G. and Corsini G.U. Nicotine prevents experimental parkinsonism in rodents and induces striatal increase of neurotrophic factors. *Journal of Neurochemistry* 71: 2439-2446 (**1998**). ISSN: 0022-3042
8	Riva M.A., **Molteni R.**, Tascedda F., Massironi A. and Racagni G. Selective modulation of fibroblast growth factor-2 expression in the rat brain by atypical antipsychotic clozapine. *Neuropharmacology* 38: 1075-1082 (**1999**). ISSN: 0028-3908
9	Roceri M., **Molteni R.**, Racagni G. and Riva M.A. Calcium-dependent modulation of FGF-2 expression in cultured cerebellar granule neurons. *NeuroReport* 11: 3615-9 (**2000**). ISSN: 0959-496
10	Roceri M., **Molteni R.**, Fumagalli F., Racagni G., Corsini G.U., Maggio R. and Riva M.A. Stimulatory role of dopamine on FGF-2 expression in rat striatum. *Journal of Neurochemistry* 76: 990-997 (**2001**). ISSN: 0022-3042
11	**Molteni R.**, Lipska B.K., Weinberger D.R., Racagni G. and Riva M.A. Developmental and stress-related changes of neurotrophic factor gene expression in an animal model of schizophrenia. *Molecular Psychiatry* 6: 285-292 (**2001**). ISSN: 1359-4184
12	Meroni P.L., Raschi E., Testoni C., Tincani A., Balestrieri G., **Molteni R.**, Khamashta M.A., Tremoli E. and Camera M. Statins prevent endothelial cell activation induced by antiphospholipid (anti-beta2-glycoprotein I) antibodies: effect on the proadhesive and proinflammatory phenotype. *Arthritis & Rheumatism* 44(12): 2870-2878 (**2001**).

	ISSN: 0004-3591 (ora *Arthritis & Rheumatology)*
13	**Molteni R.**, Fumagalli F., Magnaghi V., Roceri M., Gennarelli M., Racagni G., Melcangi R.C. and Riva M.A. Modulation of fibroblast growth factor-2 by stress and corticosteroids: from developmental events to adult brain plasticity. *Brain Research Reviews* 37(1-3): 249-258 (2001). ISSN: 0165-0173
14	Griesbach G.S., Hovda D.A., **Molteni R.** and Gómez-Pinilla F. Alterations in BDNF and synapsin I within the occipital cortex and hippocampus after mild traumatic brain injury in the developing rat: reflections of injury-induced neuroplasticity. *Journal of Neurotrauma* 19(7): 803-814 (**2002**). ISSN: 0897-7151
15	**Molteni R.**, Barnard R.J., Ying Z., Roberts C.K. and Gómez-Pinilla F. A high-fat, refined sugar diet reduces hippocampal brain-derived neurotrophic factor, neuronal plasticity, and learning. *Neuroscience* 112(4): 803-814 (**2002**). ISSN: 0306-4522
16	Gómez-Pinilla F., Ying Z., Roy R.R., **Molteni R**. and Edgerton V.E. Voluntary exercise induces a BDNF-mediated mechanism that promotes neuroplasticity. *Journal of Neurophysiology* 88(5): 2187-2195 (**2002**). ISSN: 0022-3077
17	**Molteni R.**, Ying Z. and Gómez-Pinilla F. Differential effects of acute and chronic exercise on plasticity-related genes in the rat hippocampus revealed by microarray. *European Journal of Neuroscience* 16(6): 1107-1116 (**2002**). ISSN: 0953-816X
18	Fumagalli F., **Molteni R.**, Roceri M., Bedogni F., Santero R., Fossati C., Gennarelli M., Racagni G. and Riva M.A. Effect of antipsychotic drugs on brain-derived neurotrophic factor expression under reduced N-methyl-D-aspartate receptor activity. *Journal of Neuroscience Research* 72(5): 622-628 (**2003**). ISSN: 0360-4012
19	Wu A., **Molteni R.**, Ying Z. and Gómez-Pinilla F. A saturated-fat diet aggravates the outcome of traumatic brain injury on hippocampal plasticity and cognitive function by reducing brain-derived neurotrophic factor. *Neuroscience* 119(2): 365-375 (**2003**). ISSN. 0306-4522
20	**Molteni R.**, Wu A., Vaynman S., Ying Z., Barnard R.J. and Gomez-Pinilla F. Exercise reverses the harmful effects of consumption of a high-fat diet on synaptic and behavioral plasticity associated to the action of brain-derived neurotrophic factor. *Neuroscience* 123(2): 429-440 (**2004**). ISSN: 0306-4522
21	Griesbach G.S., Hovda D.A., **Molteni R.**, Wu A. and Gomez-Pinilla F. Voluntary exercise following traumatic brain injury: brain-derived neurotrophic factor upregulation and recovery of function. *Neuroscience* 125(1): 129-139 (**2004**). ISSN: 0306-4522
22	**Molteni R.**, Zheng JQ., Ying Z., Gomez-Pinilla F. and Twiss J.L. Voluntary exercise increases axonal regeneration from sensory neurons. *Proc Natl Acad Sci USA* 101(22): 8473-8478 (**2004**). ISSN: 0027-8424
23	Fumagalli F., **Molteni R.**, Bedogni F., Gennarelli M., Perez J., Racagni G. and Riva M.A. Quetiapine regulates FGF-2 and BDNF expression in the hippocampus of animals treated with MK-801. *NeuroReport* 15(13): 2109-2112 (**2004**). ISSN: 0959-4965

24	Riva M.A., **Molteni R.**, Bedogni F., Racagni G. and Fumagalli F. Emerging role of the FGF system in psychiatric disorders. *Trends in Pharmacological Sciences* 26(5): 228-231 (**2005**). ISSN: 0165-6147
25	*Fumagalli F., ***Molteni R.**, Calabrese F., Frasca A., Racagni G. and Riva M.A. Chronic fluoxetine administration inhibits extracellular signal-regulated kinase 1/2 phosphorylation in rat brain. *Journal of Neurochemistry* 93(6): 1551-1560 (**2005**). ISSN: 0022-3042
26	**Molteni R.**, Calabrese F., Bedogni F., Tongiorgi E., Fumagalli F. Racagni G. and Riva M.A. Chronic treatment with fluoxetine up-regulates cellular BDNF mRNA expression in rat dopaminergic regions. *International Journal of Neuropsychopharmacology* 9(3): 307-317 (**2006**). ISSN: 1461-1457
27	Fumagalli F. **Molteni R.**, Racagni G. and Riva M.A. Stress during development: impact on neuroplasticity and relevance to psychopathology. *Progress in Neurobiology* 81(4): 197-217 (**2007**). ISSN: 0301-0082
28	Calabrese F., **Molteni R.**, Maj P.F., Cattaneo A., Gennarelli M., Racagni G. and Riva M.A. Chronic duloxetine treatment induces specific changes in the expression of BDNF transcripts and in the subcellular localization of the neurotrophin protein. *Neuropsychopharmacology* 32(11): 2351-2359 (**2007**). ISSN: 0893-133X
29	**Molteni R.**, Pasini M., Moraschi S., Gennarelli M., Drago F., Racagni G. and Riva M.A. Reduced activation of intracellular signaling pathways in rat prefrontal cortex after chronic phencyclidine administration. *Pharmacological Research* 57(4): 296-302 (**2008**). ISSN: 1043-6618
30	Fumagalli F., **Molteni R.**, Calabrese F., Maj P.F, Racagni G. and Riva M.A. Neurotrophic factors in neurodegenerative disorders: potential for therapy. *CNS Drugs* 22(12): 1005-1019 (**2008**). ISSN: 1172-7047
31	**Molteni R.**, Calabrese F., Mancini M., Racagni G. and Riva M.A. Basal and stress-induced modulation of activity-regulated cytoskeletal associated protein (Arc) in the rat brain following duloxetine treatment. *Psychopharmacology* 201(2): 285-292 (**2008**). ISSN: 0033-3158
32	**Molteni R.**, Calabrese F., Cattaneo A., Mancini M., Gennarelli M., Racagni G. and Riva M.A. Acute stress responsiveness of the neurotrophin BDNF in the rat hippocampus is modulated by chronic treatment with the antidepressant duloxetine. *Neuropsychopharmacology* 34(6): 1523-1532 (**2009**). ISSN: 0893-133X
33	***Molteni R**., *Calabrese F., Racagni G., Fumagalli F. and Riva M.A. Antipsychotic drug actions on gene modulation and signaling mechanisms. *Pharmacology and Therapeutics* 124(1): 74-85 (**2009**). ISSN: 0163-7258 0163
34	**Molteni R.**, Calabrese F., Maj P.F., Olivier J.D.A., Racagni G., Ellenbroek B.A. and Riva M.A. Altered expression and modulation of activity-regulated cytoskeletal associated protein (Arc) in serotonin transporter knockout rats. *European Neuropsychopharmacology* 19(12): 898-904 (**2009**). ISSN: 0924-977X
35	Calabrese F., **Molteni R**., Racagni G. and Riva M.A. Neuronal plasticity: a link between stress and mood disorders. *Psychoneuroendocrinology* 34(Suppl. 1): S208-S216 (**2009**). ISSN: 0306-4530

36	**Molteni R.**, Cattaneo A., Calabrese F., Macchi F., Olivier J.D.A., Racagni G., Ellenbroek B.A., Gennarelli M. and Riva M.A. Reduced function of the serotonin transporter is associated with decreased expression of BDNF in rodents as well as in humans. *Neurobiology of Disease* 37(3): 747-755 (**2010**). ISSN: 0969-9961
37	**Molteni R.**, Calabrese F., Pisoni S., Gabriel C., Mocaer E., Racagni G. and Riva M.A. Synergistic mechanisms in the modulation of the neurotrophin BDNF in the rat prefrontal cortex following acute agomelatine administration. *World Journal of Biological Psychiatry* 11(2): 148-153 (**2010**). ISSN: 1562-2975
38	**Molteni R.**, Calabrese F., Chourbaji S., Brandwein C., Racagni G., Gass P. and Riva M.A. Depression-prone mice with reduced glucocorticoid receptor expression display an altered stress-dependent regulation of brain-derived neurotrophic factor and activity-regulated cytoskeleton associated protein. *Journal of Psychopharmacology* 24(4): 595-603 (**2010**). ISSN: 0269-8811
39	Calabrese F., **Molteni R.**, Cattaneo A., Macchi F., Racagni G., Gennarelli M., Ellenbroek B.A. and Riva M.A. Long-Term duloxetine treatment normalizes altered brain-derived neurotrophic factor expression in serotonin transporter knockout rats through the modulation of specific neurotrophin isoforms. *Molecular Pharmacology* 77(5): 846-853 (**2010**). ISSN: 0026-895X
40	Bocchio-Chiavetto L., Bagnardi V., Zanardini R., **Molteni R.**, Nielsen M.G., Placentino A., Giovannini C., Rillosi L., Ventriglia M., Riva M.A. and Gennarelli M. Serum and plasma BDNF levels in major depression: a replication study and meta-analyses. *World Journal of Biological Psychiatry* 11(6): 763-773 (**2010**). ISSN: 1562-2975
41	Calabrese F., **Molteni R.**, Gabriel C., Mocaer E., Racagni G. and Riva M.A. Modulation of neuroplastic molecules in selected brain regions after chronic administration of the novel antidepressant agomelatine. *Psychopharmacology* 215(2): 267-275 (**2011**). ISSN: 0033-3158
42	Calabrese F., **Molteni R.** and Riva M.A. Antistress properties of antidepressant drugs and their clinical implications. *Pharmacology and Therapeutics* 132(1): 39-56 (**2011**). ISSN: 0163-7258
43	Racagni G., Riva M.A., **Molteni R.**, Musazzi M., Calabrese F., Popoli M. and Tardito D. Mode of action of agomelatine: synergy between melatonergic and 5-HT2C receptors. *World Journal of Biological Psychiatry* 12(8): 574-87 (**2011**). ISSN: 1562-2975
44	Ruggeri M. et al. A multi-element psychosocial intervention for early psychosis (GET UP PIANO TRIAL) conducted in a catchment area of 10 million inhabitants: study protocol for a pragmatic cluster randomized controlled trial. *Trials* 13:73 (**2012**). ISSN: 1745-6215
45	Calabrese F., Guidotti G., **Molteni R.**, Racagni G., Mancini M. and Riva M.A. Stress-induced changes of hippocampal NMDA receptors: modulation by duloxetine treatment. *PLoS ONE* 7(5): e37916 (**2012**). ISSN: 1932-6203
46	Tardito D., **Molteni R.**, Popoli M. and Racagni G. Synergistic mechanisms involved in the antidepressant effects of agomelatine. *European Neuropsychopharmacology* 22 Suppl 3: S482-486. (**2012**). ISSN: 0924-977X

47	Chourbaji S., Hortnagl H., **Molteni R.**, Riva M.A., Gass P. and Hellweg R. The impact of environmental enrichment on sex-specific neurochemical circuitries - Effects on brain-derived neurotrophic factor and the serotonergic system. *Neuroscience* 220:267-76 (**2012)**. ISSN: 0306-4522
48	Anacker C., Cattaneo A., Musaelyan K., Zunszain P.A., Horowitz M., **Molteni R.**, Luoni A., Calabrese F., Tansey K., Gennarelli M., Thuret S., Price J., Uher F., Riva M.A. and Pariante C.M. Role for the kinase SGK1 in stress, depression, and glucocorticoid effects on hippocampal neurogenesis. *Proc Natl Acad Sci USA* 110(21): 8708-13 (**2013**). ISSN: 0027-8424
49	Macchi F, Homberg J.R., Calabrese F., Zecchillo C., Racagni G., Riva M.A., **Molteni R.** Altered inflammatory responsiveness in serotonin transporter mutant rats. *Journal of Neuroinflammation* 10: 116 (**2013**). ISSN: 1742-2094
50	**Molteni R.**, Macchi F. and Riva M.A. Gene expression profiling as functional readout of rodent models for psychiatric disorders. *Cell and Tissue Research,* 354(1): 51-60 (**2013**). ISSN: 0302-766X
51	**Molteni R.**, Macchi F., Zecchillo C., Dell'Agli M., Colombo E., Calabrese F., Guidotti G., Racagni G. and Riva M.A. Modulation of the inflammatory response in rats chronically treated with the antidepressant agomelatine. *European Neuropsychopharmacology*. 23(11): 1645-1655 (**2013**). ISSN: 0924-977X
52	Capannolo M., Ciccarelli C., **Molteni R.**, Fumagalli F., Rocchi C., Romeo S., Fasciani I., Aloisi G., Zani B.M., Riva M.A. and Maggio R. Nitric oxide synthase inhibition reverts muscarinic receptor down-regulation induced by pilocarpine- and kainic acid-evoked seizures in rat fronto-parietal cortex. *Epilepsy Research* 108(1): 11-19 (**2014**). ISSN: 0920-1211
53	Homberg J.R., **Molteni R.**, Calabrese F. and Riva M.A. The serotonin-BDNF duo: developmental implications for the vulnerability to psychopathology. *Neuroscience and Biobehavioral Reviews* 43:35-47 (**2014**). ISSN: 0149-7634
54	Calabrese F., Rossetti A.C., Racagni G., Gass P., Riva M.A. and **Molteni R**. Brain-derived neurotrophic factor: a bridge between inflammation and neuroplasticity. *Frontiers in Cellular Neuroscience* 8: 430 (**2014**). ISSN: 1662-5102
55	Luoni A., Richetto J., Racagni G. and **Molteni R.** The long-term impact of early adversities on psychiatric disorders: focus on neuronal plasticity. *Current Pharmaceutical Design* 21(11): 1388-1395 (**2015**). ISSN: 1381-6128
56	Luoni A., Macchi F., Papp M., **Molteni R.** and Riva M.A. Lurasidone exerts antidepressant properties in the chronic mild stress model through the regulation of synaptic and neuroplastic mechanisms in the rat prefrontal cortex. *International Journal of Neuropsychopharmacology* 18(4): 1-12 (**2014**). ISSN: 1461-1457
57	Pase C.S., Teixeira A.M., Roversi K., Dias V.T., Calabrese F., **Molteni R.**, Franchi S., Panerai A.E., Riva M.A. and Burger M.E. Olive oil-enriched diet reduces brain oxidative damages and ameliorates neurotrophic factor gene expression in different life stages of rats. *Journal of Nutritional Biochemistry* 26: 1200-1207 (**2015**). ISSN: 0955-2863
58	Rossetti A.C., Papp M., Gruca P., Paladini M.S., Racagni G., Riva M.A. and **Molteni R.** Stress-induced anhedonia is associated with the activation of the inflammatory system in the rat brain: restorative effect of pharmacological intervention. *Pharmacological Research* 103: 1-12 (**2016**).

	ISSN: 1043-6618
59	**Molteni R.**, Rossetti A.C., Savino E., Racagni G. and Calabrese F. Chronic mild stress modulates activity-dependent transcription of BDNF in rat hippocampal slices. *Neural Plasticity* Vol. 2016, Article ID 2592319 (**2016**). ISSN: 2090-5904
60	Calabrese F., Savino E., Papp M., **Molteni R.** and Riva M.A. Chronic mild stress-induced alterations of clock gene expression in rat prefrontal cortex: modulatory effects of prolonged lurasidone treatment. *Pharmacological Research* 104: 140-150 (**2016**). ISSN: 1043-6618
61	Calabrese F., Riva M.A. and **Molteni R**. Synaptic alterations associated with depression and schizophrenia: potential as a therapeutic target. *Expert Opinion on Therapeutic Targets* 20(10):1195-1207 (**2016**). ISSN: 1472-8222 Q1 (Molecular Medicine) Q1 (Pharmacology)
62	Rossetti A.C., Paladini M.S, Colombo M., Gruca P., Lason-Tyburkiewicz M., Tota-Glowczyk K., Papp M., Riva M.A. and **Molteni R.** Chronic stress exposure reduces parvalbumin expression in the rat hippocampus through an imbalance of redox mechanisms: restorative effect of the antipsychotic lurasidone. *International Journal of Neuropsychopharmacology* 21(9): 883-893 (**2018**) ISSN: 1461-1457
63	Manfré G., Novati A., Faccini I., Rossetti A.C., Bosch K., **Molteni R.**, Riva M.A., Van der Harst J.E., Nguyen H.P. and Homberg J.R. BACHD rats expressing full-length mutant huntingtin exhibit differences in social behavior compared to wild-type littermates. *PLoS ONE*. 13(2):e0192289 (**2018**) ISSN: 1932-6203
64	Caraci F., Calabrese F., **Molteni R**., Bartova L., Dold M., Leggio G.M., Fabbri C., Mendlewicz J., Racagni G., Kasper S., Riva M.A. and Drago F. International union of basic and clinical pharmacology CIV: the neurobiology of treatment-resistant depression: from antidepressant classifications to novel pharmacological targets. *Pharmacological Reviews* 70(3):475-504 (**2018**). ISSN: 0031-6997
65	Rossetti A.C., Paladini M.S., Racagni G., Riva M.A., Cattaneo A. and **Molteni R.** Genome-wide analysis of LPS-induced inflammatory response in the rat ventral hippocampus: modulatory activity of the antidepressant agomelatine. *World J Biological Psychiatry*. 19(5):390-401 (**2018**) Epub **2017 Mar 24**. ISSN: 2090-5904
66	Morroni F., Sita G., Graziosi A., Ravegnini G., **Molteni R.,** Paladini M.S., Dias K.S.T., Dos Santos A.F., Viegas C. Jr, Camps I., Pruccoli L., Tarozzi A. and Hrelia P. PQM130, a novel feruloyl-donepezil hybrid compound, effectively ameliorates the cognitive impairments and pathology in a mouse model of Alzheimer's disease. *Frontiers in Pharmacology* (**2019**) 10:658. ISSN 1663-9812 Q1 (Pharmacology)
67	Brivio P., Paladini M.S., Racagni G., Riva M.A., Calabrese F. and **Molteni R**. From healthy aging to frailty: in search of the underlying mechanisms. *Current Medicinal Chemistry* (**2019**) 26(20):3685-3701. ISSN: 0929-8673
68	Rossetti A.C., Paladini M.S., Trepci A., Mallien A., Riva M.A., Gass P. and **Molteni R.** Differential neuroinflammatory response in male and female mice: a role for BDNF. *Frontiers in Molecular Neuroscience* 12:166 (**2019**) ISSN: 1662-5099

69	Moschetti G., Amodeo G., Paladini M.S., **Molteni R.**, Balboni G., Panerai A., Sacerdote P. and Franchi S. Prokineticin 2 promotes and sustains neuroinflammation in vincristine treated mice: focus on pain and emotional like behavior. *Brain, Behavior and Immunity* 82:422-431 (**2019**). ISSN: 0889-1591
70	Rossetti A.C., Paladini M.S., Riva M.A. and **Molteni R.** Oxidation-reduction mechanisms in psychiatric disorders: a novel target for pharmacological intervention. *Pharmacology and Therapeutics* 210, 107520 (**2020**) ISSN: 0163-7258 0163
71	Marchisella F., Paladini M.S., Guidi A., Begni V., Brivio P., Spero V., Calabrese F., **Molteni R.** and Riva M.A. Chronic treatment with the antipsychotic drug blonanserin modulates the responsiveness to acute stress with anatomical selectivity. *Psychopharmacology* 237(6):1783–1793 (**2020**). ISSN: 0033-3158
72	Hrelia P., Sita G., Ziche M., Ristori E., Marino A., Cordaro M., **Molteni R.**, Spero V., Malaguti M., Morroni F. and Hrelia S. Common protective strategies in neurodegenerative disease: focusing on risk factors to target the cellular redox system. *Oxid Med Cell Longev*. 2020:8363245 (**2020**)
73	Brivio P., Sbrini G., Corsini G., Paladini MS., Racagni G., **Molteni R**. and Calabrese F. Chronic restraint stress inhibits the response to a second hit in adult male rats: a role for BDNF signaling. *Int J Mol Sci*. 21(17):6261 (**2020**).
74	Paladini M.S., Marangon D., Rossetti A.C., Guidi A., Coppolino G.T., Negri C., Spero V., Abbracchio M.P., Lecca D. and **Molteni R**. Prenatal stress impairs spinal cord oligodendrocyte maturation via BDNF signaling in the experimental autoimmune encephalomyelitis model of multiple sclerosis. *Cell Mol Neurobiol.* (**2020**). doi: 10.1007/s10571-020-01014-x. Online ahead of print
75	Paladini M.S., Spero V., Begni V., Marchisella F., Guidi A., Gruca P., Lason M., Litwa E., Papp M., Riva M.A. and **Molteni R.** Behavioral and molecular effects of the antipsychotic drug blonanserin in the chronic mild stress model. *Pharmacol Res*. (**2020**) 163:105330. doi: 10.1016/j.phrs.2020.105330. Online ahead of print. ISSN: 0031-6997
76	Perrotta C., Cattaneo M.G., **Molteni R**. and De Palma C. Autophagy in the regulation of tissue differentiation and homeostasis. *Front Cell Dev Biol*. (**2020**) 8:602901. doi: 10.3389/fcell.2020.602901. eCollection 2020