

Raffaella Molteni

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

87
papers

6,611
citations

41
h-index

81
g-index

106
ext. papers

7,360
ext. citations

5.6
avg, IF

5.5
L-index

#	Paper	IF	Citations
87	A high-fat, refined sugar diet reduces hippocampal brain-derived neurotrophic factor, neuronal plasticity, and learning. <i>Neuroscience</i> , 2002 , 112, 803-14	3.9	651
86	Voluntary exercise induces a BDNF-mediated mechanism that promotes neuroplasticity. <i>Journal of Neurophysiology</i> , 2002 , 88, 2187-95	3.2	519
85	Voluntary exercise following traumatic brain injury: brain-derived neurotrophic factor upregulation and recovery of function. <i>Neuroscience</i> , 2004 , 125, 129-39	3.9	378
84	Differential effects of acute and chronic exercise on plasticity-related genes in the rat hippocampus revealed by microarray. <i>European Journal of Neuroscience</i> , 2002 , 16, 1107-16	3.5	330
83	Serum and plasma BDNF levels in major depression: a replication study and meta-analyses. <i>World Journal of Biological Psychiatry</i> , 2010 , 11, 763-73	3.8	306
82	Brain-derived neurotrophic factor: a bridge between inflammation and neuroplasticity. <i>Frontiers in Cellular Neuroscience</i> , 2014 , 8, 430	6.1	270
81	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. <i>Neuroscience</i> , 2004 , 123, 429-40	3.9	258
80	Neuronal plasticity: a link between stress and mood disorders. <i>Psychoneuroendocrinology</i> , 2009 , 34 Suppl 1, S208-16	5	229
79	Statins prevent endothelial cell activation induced by antiphospholipid (anti-beta2-glycoprotein I) antibodies: effect on the proadhesive and proinflammatory phenotype. <i>Arthritis and Rheumatism</i> , 2001 , 44, 2870-8		227
78	Role for the kinase SGK1 in stress, depression, and glucocorticoid effects on hippocampal neurogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 8708-13	11.5	209
77	A saturated-fat diet aggravates the outcome of traumatic brain injury on hippocampal plasticity and cognitive function by reducing brain-derived neurotrophic factor. <i>Neuroscience</i> , 2003 , 119, 365-75	3.9	178
76	Stress during development: Impact on neuroplasticity and relevance to psychopathology. <i>Progress in Neurobiology</i> , 2007 , 81, 197-217	10.9	169
75	Mode of action of agomelatine: synergy between melatonergic and 5-HT _{2C} receptors. <i>World Journal of Biological Psychiatry</i> , 2011 , 12, 574-87	3.8	163
74	Nicotine prevents experimental parkinsonism in rodents and induces striatal increase of neurotrophic factors. <i>Journal of Neurochemistry</i> , 1998 , 71, 2439-46	6	157
73	Voluntary exercise increases axonal regeneration from sensory neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 8473-8	11.5	125
72	The serotonin-BDNF duo: developmental implications for the vulnerability to psychopathology. <i>Neuroscience and Biobehavioral Reviews</i> , 2014 , 43, 35-47	9	108
71	Chronic duloxetine treatment induces specific changes in the expression of BDNF transcripts and in the subcellular localization of the neurotrophin protein. <i>Neuropsychopharmacology</i> , 2007 , 32, 2351-9	8.7	105

70	Acute stress responsiveness of the neurotrophin BDNF in the rat hippocampus is modulated by chronic treatment with the antidepressant duloxetine. <i>Neuropsychopharmacology</i> , 2009 , 34, 1523-32	8.7	95
69	Chronic fluoxetine administration inhibits extracellular signal-regulated kinase 1/2 phosphorylation in rat brain. <i>Journal of Neurochemistry</i> , 2005 , 93, 1551-60	6	94
68	Chronic treatment with fluoxetine up-regulates cellular BDNF mRNA expression in rat dopaminergic regions. <i>International Journal of Neuropsychopharmacology</i> , 2006 , 9, 307-17	5.8	91
67	Reduced function of the serotonin transporter is associated with decreased expression of BDNF in rodents as well as in humans. <i>Neurobiology of Disease</i> , 2010 , 37, 747-55	7.5	84
66	Modulation of fibroblast growth factor-2 by stress and corticosteroids: from developmental events to adult brain plasticity. <i>Brain Research Reviews</i> , 2001 , 37, 249-58		83
65	The impact of environmental enrichment on sex-specific neurochemical circuitries - effects on brain-derived neurotrophic factor and the serotonergic system. <i>Neuroscience</i> , 2012 , 220, 267-76	3.9	80
64	T221. LURASIDONE DISPLAYS ANTIDEPRESSANT AND PRO-COGNITIVE EFFECTS IN THE CHRONIC MILD STRESS MODEL: A ROLE FOR REDOX MECHANISMS AND PARVALBUMIN EXPRESSION. <i>Schizophrenia Bulletin</i> , 2018 , 44, S202-S202	1.3	78
63	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. <i>Journal of Neurotrauma</i> , 2002 , 19, 803-14	5.4	77
62	Stress-induced changes of hippocampal NMDA receptors: modulation by duloxetine treatment. <i>PLoS ONE</i> , 2012 , 7, e37916	3.7	76
61	Developmental and stress-related changes of neurotrophic factor gene expression in an animal model of schizophrenia. <i>Molecular Psychiatry</i> , 2001 , 6, 285-92	15.1	68
60	Regulation of NMDA receptor subunit mRNA expression in the rat brain during postnatal development. <i>Molecular Brain Research</i> , 1994 , 25, 209-16		68
59	Antipsychotic drug actions on gene modulation and signaling mechanisms. <i>Pharmacology & Therapeutics</i> , 2009 , 124, 74-85	13.9	67
58	Modulation of the inflammatory response in rats chronically treated with the antidepressant agomelatine. <i>European Neuropsychopharmacology</i> , 2013 , 23, 1645-55	1.2	66
57	Effect of antipsychotic drugs on brain-derived neurotrophic factor expression under reduced N-methyl-D-aspartate receptor activity. <i>Journal of Neuroscience Research</i> , 2003 , 72, 622-8	4.4	62
56	Quetiapine regulates FGF-2 and BDNF expression in the hippocampus of animals treated with MK-801. <i>NeuroReport</i> , 2004 , 15, 2109-12	1.7	58
55	Stress-induced anhedonia is associated with the activation of the inflammatory system in the rat brain: Restorative effect of pharmacological intervention. <i>Pharmacological Research</i> , 2016 , 103, 1-12	10.2	56
54	Modulation of neuroplastic molecules in selected brain regions after chronic administration of the novel antidepressant agomelatine. <i>Psychopharmacology</i> , 2011 , 215, 267-75	4.7	53
53	Long-Term duloxetine treatment normalizes altered brain-derived neurotrophic factor expression in serotonin transporter knockout rats through the modulation of specific neurotrophin isoforms. <i>Molecular Pharmacology</i> , 2010 , 77, 846-53	4.3	51

52	Synergistic mechanisms in the modulation of the neurotrophin BDNF in the rat prefrontal cortex following acute agomelatine administration. <i>World Journal of Biological Psychiatry</i> , 2010 , 11, 148-53	3.8	49
51	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. <i>Journal of Psychopharmacology</i> , 2010 , 24, 595-603	4.6	45
50	Stimulatory role of dopamine on fibroblast growth factor-2 expression in rat striatum. <i>Journal of Neurochemistry</i> , 2001 , 76, 990-7	6	45
49	Emerging role of the FGF system in psychiatric disorders. <i>Trends in Pharmacological Sciences</i> , 2005 , 26, 228-31	13.2	43
48	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. <i>Molecular Pharmacology</i> , 1996 , 49, 699-706	4.3	43
47	Selective modulation of fibroblast growth factor-2 expression in the rat brain by the atypical antipsychotic clozapine. <i>Neuropharmacology</i> , 1999 , 38, 1075-82	5.5	42
46	Lurasidone exerts antidepressant properties in the chronic mild stress model through the regulation of synaptic and neuroplastic mechanisms in the rat prefrontal cortex. <i>International Journal of Neuropsychopharmacology</i> , 2014 , 18,	5.8	40
45	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. <i>Trials</i> , 2012 , 13, 73	2.8	38
44	Synergistic mechanisms involved in the antidepressant effects of agomelatine. <i>European Neuropsychopharmacology</i> , 2012 , 22 Suppl 3, S482-6	1.2	36
43	Antistress properties of antidepressant drugs and their clinical implications. <i>Pharmacology & Therapeutics</i> , 2011 , 132, 39-56	13.9	32
42	International Union of Basic and Clinical Pharmacology CIV: The Neurobiology of Treatment-resistant Depression: From Antidepressant Classifications to Novel Pharmacological Targets. <i>Pharmacological Reviews</i> , 2018 , 70, 475-504	22.5	31
41	Different patterns of induction of FGF-2, FGF-1 and BDNF mRNAs during kindling epileptogenesis in the rat. <i>European Journal of Neuroscience</i> , 1998 , 10, 955-63	3.5	29
40	Neurotrophic factors in neurodegenerative disorders : potential for therapy. <i>CNS Drugs</i> , 2008 , 22, 1005-107	19.7	28
39	Basal and stress-induced modulation of activity-regulated cytoskeletal associated protein (Arc) in the rat brain following duloxetine treatment. <i>Psychopharmacology</i> , 2008 , 201, 285-92	4.7	26
38	Oxidation-reduction mechanisms in psychiatric disorders: A novel target for pharmacological intervention. <i>Pharmacology & Therapeutics</i> , 2020 , 210, 107520	13.9	25
37	Chronic Stress Exposure Reduces Parvalbumin Expression in the Rat Hippocampus through an Imbalance of Redox Mechanisms: Restorative Effect of the Antipsychotic Lurasidone. <i>International Journal of Neuropsychopharmacology</i> , 2018 , 21, 883-893	5.8	25
36	Chronic mild stress-induced alterations of clock gene expression in rat prefrontal cortex: modulatory effects of prolonged lurasidone treatment. <i>Pharmacological Research</i> , 2016 , 104, 140-50	10.2	24
35	Beta-arrestin 2 is required for the induction and strengthening of integrin-mediated leukocyte adhesion during CXCR2-driven extravasation. <i>Blood</i> , 2009 , 114, 1073-82	2.2	22

34	Synaptic alterations associated with depression and schizophrenia: potential as a therapeutic target. <i>Expert Opinion on Therapeutic Targets</i> , 2016 , 20, 1195-207	6.4	22
33	Differential regulation of FGF-2 and FGFR-1 in rat cortical astrocytes by dexamethasone and isoproterenol. <i>Molecular Brain Research</i> , 1998 , 57, 38-45		20
32	Altered expression and modulation of activity-regulated cytoskeletal associated protein (Arc) in serotonin transporter knockout rats. <i>European Neuropsychopharmacology</i> , 2009 , 19, 898-904	1.2	18
31	L-deprenyl potentiates cAMP-induced elevation of FGF-2 mRNA levels in rat cortical astrocytes. <i>NeuroReport</i> , 1997 , 8, 2165-8	1.7	18
30	Common Protective Strategies in Neurodegenerative Disease: Focusing on Risk Factors to Target the Cellular Redox System. <i>Oxidative Medicine and Cellular Longevity</i> , 2020 , 2020, 8363245	6.7	18
29	Acute and chronic changes in K(+)-induced depolarization alter NMDA and nNOS gene expression in cultured cerebellar granule cells. <i>Molecular Brain Research</i> , 1996 , 40, 171-4		17
28	Altered inflammatory responsiveness in serotonin transporter mutant rats. <i>Journal of Neuroinflammation</i> , 2013 , 10, 116	10.1	16
27	From Healthy Aging to Frailty: In Search of the Underlying Mechanisms. <i>Current Medicinal Chemistry</i> , 2019 , 26, 3685-3701	4.3	16
26	Olive oil-enriched diet reduces brain oxidative damages and ameliorates neurotrophic factor gene expression in different life stages of rats. <i>Journal of Nutritional Biochemistry</i> , 2015 , 26, 1200-7	6.3	15
25	Chronic Mild Stress Modulates Activity-Dependent Transcription of BDNF in Rat Hippocampal Slices. <i>Neural Plasticity</i> , 2016 , 2016, 2592319	3.3	15
24	Prokineticin 2 promotes and sustains neuroinflammation in vincristine treated mice: Focus on pain and emotional like behavior. <i>Brain, Behavior, and Immunity</i> , 2019 , 82, 422-431	16.6	13
23	Reduced activation of intracellular signaling pathways in rat prefrontal cortex after chronic phencyclidine administration. <i>Pharmacological Research</i> , 2008 , 57, 296-302	10.2	11
22	BACHD rats expressing full-length mutant huntingtin exhibit differences in social behavior compared to wild-type littermates. <i>PLoS ONE</i> , 2018 , 13, e0192289	3.7	10
21	Differential Neuroinflammatory Response in Male and Female Mice: A Role for BDNF. <i>Frontiers in Molecular Neuroscience</i> , 2019 , 12, 166	6.1	10
20	The GIT-PIX complexes regulate the chemotactic response of rat basophilic leukaemia cells. <i>Biology of the Cell</i> , 2010 , 102, 231-44	3.5	10
19	Autophagy in the Regulation of Tissue Differentiation and Homeostasis. <i>Frontiers in Cell and Developmental Biology</i> , 2020 , 8, 602901	5.7	10
18	Genome-wide analysis of LPS-induced inflammatory response in the rat ventral hippocampus: Modulatory activity of the antidepressant agomelatine. <i>World Journal of Biological Psychiatry</i> , 2018 , 19, 390-401	3.8	8
17	PQM130, a Novel Feruloyl-Donepezil Hybrid Compound, Effectively Ameliorates the Cognitive Impairments and Pathology in a Mouse Model of Alzheimer's Disease. <i>Frontiers in Pharmacology</i> , 2019 , 10, 658	5.6	8

16	The long-term impact of early adversities on psychiatric disorders: focus on neuronal plasticity. <i>Current Pharmaceutical Design</i> , 2015 , 21, 1388-95	3.3	8
15	Chronic treatment with the antipsychotic drug blonanserin modulates the responsiveness to acute stress with anatomical selectivity. <i>Psychopharmacology</i> , 2020 , 237, 1783-1793	4.7	8
14	Chronic Restraint Stress Inhibits the Response to a Second Hit in Adult Male Rats: A Role for BDNF Signaling. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	7
13	Gene expression profiling as functional readout of rodent models for psychiatric disorders. <i>Cell and Tissue Research</i> , 2013 , 354, 51-60	4.2	4
12	Calcium-dependent modulation of FGF-2 expression in cultured cerebellar granule neurons. <i>NeuroReport</i> , 2000 , 11, 3615-9	1.7	4
11	Behavioral and molecular effects of the antipsychotic drug blonanserin in the chronic mild stress model. <i>Pharmacological Research</i> , 2021 , 163, 105330	10.2	4
10	Nitric oxide synthase inhibition reverts muscarinic receptor down-regulation induced by pilocarpine- and kainic acid-evoked seizures in rat fronto-parietal cortex. <i>Epilepsy Research</i> , 2014 , 108, 11-9	3	2
9	Bioavailability of curcumin in the rat frontal lobe and hippocampus after repeated administration of MERIVA [®] . <i>Planta Medica</i> , 2016 , 81, S1-S381	3.1	1
8	Prenatal Stress Impairs Spinal Cord Oligodendrocyte Maturation via BDNF Signaling in the Experimental Autoimmune Encephalomyelitis Model of Multiple Sclerosis. <i>Cellular and Molecular Neurobiology</i> , 2020 , 1	4.6	1
7	Altered responsiveness of the antioxidant system in chronically stressed animals: modulation by chronic lurasidone treatment.. <i>Psychopharmacology</i> , 2022 , 1	4.7	0
6	Investigating stress resilience and susceptibility: impact of lipopolysaccharide on the rat brain. <i>European Neuropsychopharmacology</i> , 2017 , 27, S38-S39	1.2	
5	P.1.13 Neuroplastic changes following chronic treatment with antipsychotic blonanserin in rats: Implications for schizophrenia. <i>European Neuropsychopharmacology</i> , 2019 , 29, S642-S643	1.2	
4	P.1.001 Chronic mild stress modulates the transcription of BDNF isoforms with brain region specificity: influence of antidepressant treatment. <i>European Neuropsychopharmacology</i> , 2011 , 21, S2-S3	1.2	
3	S.20.03 Isoform expression and intracellular trafficking of BDNF following stress and antidepressant drug treatment. <i>European Neuropsychopharmacology</i> , 2009 , 19, S205	1.2	
2	Stress e depressione: Meccanismi eziopatologici e modulazione farmacologica 2012 , 301-314		
1	P.404 Neuroplastic changes following chronic treatment with antipsychotic blonanserin in rats: Implications for schizophrenia. <i>European Neuropsychopharmacology</i> , 2019 , 29, S286-S287	1.2	