Barbara Monti

List of Publications by Year
in descending order

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76 papers	10,419 citations	159358 30 h-index	74018 75 g-index
78 all docs	78 docs citations	78 times ranked	16208 citing authors

#	Article	IF	Citations
1	Copper-Zinc Superoxide Dismutase (SOD1) Is Released by Microglial Cells and Confers Neuroprotection against 6-OHDA Neurotoxicity. NeuroSignals, 2013, 21, 112-128.	0.5	7,097
2	The consolidation of new but not reactivated memory requires hippocampal C/EBPÎ². Nature Neuroscience, 2001, 4, 813-818.	7.1	384
3	Microglia and neuroprotection: From in vitro studies to therapeutic applications. Progress in Neurobiology, 2010, 92, 293-315.	2.8	226
4	Biochemical, Molecular and Epigenetic Mechanisms of Valproic Acid Neuroprotection. Current Molecular Pharmacology, 2009, 2, 95-109.	0.7	195
5	Fornix-Dependent Induction of Hippocampal CCAAT Enhancer-Binding Protein Î² and Î´ Co-Localizes with Phosphorylated cAMP Response Element-Binding Protein and Accompanies Long-Term Memory Consolidation. Journal of Neuroscience, 2001, 21, 84-91.	1.7	167
6	Valproic Acid is Neuroprotective in the Rotenone Rat Model of Parkinsonâ€™s Disease: Involvement of Î±-Synuclein. Neurotoxicity Research, 2010, 17, 130-141.	1.3	167
7	Multitarget Drug Design Strategy: Quinoneâ€“Tacrine Hybrids Designed To Block Amyloid-Î² Aggregation and To Exert Anticholinesterase and Antioxidant Effects. Journal of Medicinal Chemistry, 2014, 57, 8576-8589.	2.9	139
8	Multitarget Drug Discovery for Alzheimer's Disease: Triazinones as BACEâ€1 and GSKâ€3Î² Inhibitors. Angewandte Chemie - International Edition, 2015, 54, 1578-1582.	7.2	107
9	Subchronic Rolipram Delivery Activates Hippocampal CREB and Arc, Enhances Retention and Slows Down Extinction of Conditioned Fear. Neuropsychopharmacology, 2006, 31, 278-286.	2.8	101
10	Tacrine-resveratrol fused hybrids as multi-target-directed ligands against Alzheimer's disease. European Journal of Medicinal Chemistry, 2017, 127, 250-262.	2.6	95
11	Blockade of the NMDA receptor increases developmental apoptotic elimination of granule neurons and activates caspases in the rat cerebellum. European Journal of Neuroscience, 2000, 12, 3117-3123.	1.2	81
12	Tau-Centric Multitarget Approach for Alzheimerâ€™s Disease: Development of First-in-Class Dual Glycogen Synthase Kinase 3Î² and Tau-Aggregation Inhibitors. Journal of Medicinal Chemistry, 2018, 61, 7640-7656.	2.9	81
13	Brain Nitric Oxide and Its Dual Role in Neurodegeneration / Neuroprotection: Understanding Molecular Mechanisms to Devise Drug Approaches. Current Medicinal Chemistry, 2003, 10, 2147-2174.	1.2	79
14	Novel tacrine-tryptophan hybrids: Multi-target directed ligands as potential treatment for Alzheimer's disease. European Journal of Medicinal Chemistry, 2019, 168, 491-514.	2.6	75
15	Dysregulation of memory-related proteins in the hippocampus of aged rats and their relation with cognitive impairment. Hippocampus, 2005, 15, 1041-1049.	0.9	65
16	Novel Tacrineâ€Crafted Ugi Adducts as Multipotent Antiâ€Alzheimer Drugs: A Synthetic Renewal in Tacrineâ€“Ferulic Acid Hybrids. ChemMedChem, 2015, 10, 523-539.	1.6	62
17	Neuroprotection of microglial conditioned medium on 6â€hydroxydopamineâ€induced neuronal death: role of transforming growth factor betaâ€2. Journal of Neurochemistry, 2009, 110, 545-556.	2.1	61
18	NMDA receptor-dependent CREB activation in survival of cerebellar granule cells duringin vivoandin vitrodevelopment. European Journal of Neuroscience, 2002, 16, 1490-1498.	1.2	59

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19	New tacrine dimers with antioxidant linkers as dual drugs: Anti-Alzheimer's and antiproliferative agents. European Journal of Medicinal Chemistry, 2017, 138, 761-773.	2.6	57
20	3,4-Dihydro-1,3,5-triazin-2(1H)-ones as the First Dual BACE-1/GSK-3Î² Fragment Hits against Alzheimerâ€™s Disease. ACS Chemical Neuroscience, 2015, 6, 1665-1682.	1.7	54
21	Changing paradigm to target microglia in neurodegenerative diseases: from anti-inflammatory strategy to active immunomodulation. Expert Opinion on Therapeutic Targets, 2016, 20, 627-640.	1.5	53
22	Alphaâ€synuclein protects cerebellar granule neurons against 6â€hydroxydopamineâ€induced death. Journal of Neurochemistry, 2007, 103, 518-530.	2.1	49
23	Regional alterations of the NO/NOS system in the aging brain: a biochemical, histochemical and immunochemical study in the rat. Brain Research, 2002, 933, 31-41.	1.1	47
24	Developmental effects of in vivo and in vitro inhibition of nitric oxide synthase in neurons. Brain Research, 1999, 839, 164-172.	1.1	37
25	Nutritional and Pharmacological Strategies to Regulate Microglial Polarization in Cognitive Aging and Alzheimerâ€™s Disease. Frontiers in Aging Neuroscience, 2017, 9, 175.	1.7	37
26	Dual-Acting Cholinesteraseâ€“Human Cannabinoid Receptor 2 Ligands Show Pronounced Neuroprotection in Vitro and Overadditive and Disease-Modifying Neuroprotective Effects in Vivo. Journal of Medicinal Chemistry, 2019, 62, 9078-9102.	2.9	35
27	Melatonin- and Ferulic Acid-Based HDAC6 Selective Inhibitors Exhibit Pronounced Immunomodulatory Effects In Vitro and Neuroprotective Effects in a Pharmacological Alzheimerâ€™s Disease Mouse Model. Journal of Medicinal Chemistry, 2021, 64, 3794-3812.	2.9	34
28	Characterization of ceramide-induced apoptotic death in cerebellar granule cells in culture. Neurochemistry International, 2001, 39, 11-18.	1.9	33
29	Discovery of novel benzofuran-based compounds with neuroprotective and immunomodulatory properties for Alzheimer's disease treatment. European Journal of Medicinal Chemistry, 2019, 178, 243-258.	2.6	32
30	Discovery of the First-in-Class GSK-3Î²/HDAC Dual Inhibitor as Disease-Modifying Agent To Combat Alzheimerâ€™s Disease. ACS Medicinal Chemistry Letters, 2019, 10, 469-474.	1.3	32
31	N-1,2,3-triazole-isatin derivatives for cholinesterase and Î²-amyloid aggregation inhibition: A comprehensive bioassay study. Bioorganic Chemistry, 2020, 98, 103753.	2.0	32
32	The Bivalent Ligand Approach as a Tool for Improving the in vitro Antiâ€Alzheimer Multitarget Profile of Dimebon. ChemMedChem, 2013, 8, 1276-1281.	1.6	30
33	Alterations of markers related to synaptic function in aging rat brain, in normal conditions or under conditions of long-term dietary manipulation. Neurochemistry International, 2004, 44, 579-584.	1.9	29
34	Neuronal-glial Interactions Define the Role of Nitric Oxide in Neural Functional Processes. Current Neuropharmacology, 2012, 10, 303-310.	1.4	28
35	Selective Pseudo-irreversible Butyrylcholinesterase Inhibitors Transferring Antioxidant Moieties to the Enzyme Show Pronounced Neuroprotective Efficacy In Vitro and In Vivo in an Alzheimerâ€™s Disease Mouse Model. Journal of Medicinal Chemistry, 2021, 64, 9302-9320.	2.9	26
36	Neuronal-glial Interactions Define the Role of Nitric Oxide in Neural Functional Processes. Current Neuropharmacology, 2012, 10, 303-310.	1.4	25

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37	Chronic Dietary Administration of Valproic Acid Protects Neurons of the Rat Nucleus Basalis Magnocellularis from Ibotenic Acid Neurotoxicity. Neurotoxicity Research, 2009, 15, 127-132.	1.3	24
38	Microglial overexpression of fALS-linked mutant SOD1 induces SOD1 processing impairment, activation and neurotoxicity and is counteracted by the autophagy inducer trehalose. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2018, 1864, 3771-3785.	1.8	24
39	In vitro and in vivo toxicity of type 2 ribosome-inactivating proteins lanceolin and stenodactylin on glial and neuronal cells. NeuroToxicology, 2007, 28, 637-644.	1.4	22
40	Down-regulation of the mitochondrial aspartate-glutamate carrier isoform 1 AGC1 inhibits proliferation and N-acetylaspartate synthesis in Neuro2A cells. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2017, 1863, 1422-1435.	1.8	22
41	Release of soluble and vesicular purine nucleoside phosphorylase from rat astrocytes and microglia induced by pro-inflammatory stimulation with extracellular ATP via P2X 7 receptors. Neurochemistry International, 2018, 115, 37-49.	1.9	22
42	Disease-related regressive alterations of forebrain cholinergic system in SOD1 mutant transgenic mice. Neurochemistry International, 2005, 46, 357-368.	1.9	21
43	Tacrine-O-protected phenolics heterodimers as multitarget-directed ligands against Alzheimer's disease: Selective subnanomolar BuChE inhibitors. European Journal of Medicinal Chemistry, 2019, 181, 111550.	2.6	21
44	Chronic valproic acid administration impairs contextual memory and dysregulates hippocampal GSK-3Î² in rats. Pharmacology Biochemistry and Behavior, 2013, 106, 8-15.	1.3	20
45	The transcription factor <scp>CCAAT</scp> enhancerâ€binding protein Î² protects rat cerebellar granule neurons from apoptosis through its transcriptionâ€activating isoforms. European Journal of Neuroscience, 2014, 39, 176-185.	1.2	20
46	Novel Sustainable-by-Design HDAC Inhibitors for the Treatment of Alzheimerâ€™s Disease. ACS Medicinal Chemistry Letters, 2019, 10, 671-676.	1.3	20
47	TDP-43 Modulation by Tau-Tubulin Kinase 1 Inhibitors: A New Avenue for Future Amyotrophic Lateral Sclerosis Therapy. Journal of Medicinal Chemistry, 2022, 65, 1585-1607.	2.9	20
48	Histone Post-translational Modifications in Huntington’s and Parkinson’s Diseases. Current Pharmaceutical Design, 2013, 19, 5085-5092.	0.9	19
49	On the role of high-potential ironâ€“sulfur proteins and cytochromes in the respiratory chain of two facultative phototrophs. Biochimica Et Biophysica Acta - Bioenergetics, 1999, 1410, 51-60.	0.5	18
50	A Focused Library of Psychotropic Analogues with Neuroprotective and Neuroregenerative Potential. ACS Chemical Neuroscience, 2019, 10, 279-294.	1.7	18
51	Phenothiazine-Tacrine Heterodimers: Pursuing Multitarget Directed Approach in Alzheimerâ€™s Disease. ACS Chemical Neuroscience, 2021, 12, 1698-1715.	1.7	16
52	Ricin toxicity to microglial and monocytic cells. Neurochemistry International, 2001, 39, 83-93.	1.9	14
53	Topography of neurochemical alterations in the CNS of aged rats. International Journal of Developmental Neuroscience, 2001, 19, 109-116.	0.7	14
54	Ornithine Decarboxylase Activity During Development of Cerebellar Granule Neurons. Journal of Neurochemistry, 2002, 71, 1898-1904.	2.1	13

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55	Selective alteration of DNA fragmentation and caspase activity in the spinal cord of aged rats and effect of dietary restriction. Brain Research, 2003, 992, 137-141.	1.1	13
56	Neuronal Regulation of Neuroprotective Microglial Apolipoprotein E Secretion in Rat In Vitro Models of Brain Pathophysiology. Journal of Neuropathology and Experimental Neurology, 2015, 74, 818-834.	0.9	13
57	Zinc supplementation in rats impairs hippocampal-dependent memory consolidation and dampens post-traumatic recollection of stressful event. European Neuropsychopharmacology, 2016, 26, 1070-1082.	0.3	12
58	Evidence for purine nucleoside phosphorylase (PNP) release from rat C6 glioma cells. Journal of Neurochemistry, 2017, 141, 208-221.	2.1	11
59	Alteration of neuronal nitric oxide synthase activity and expression in the cerebellum and the forebrain of microencephalic rats. Brain Research, 1998, 793, 54-60.	1.1	10
60	Deficiency of Mitochondrial Aspartate-Glutamate Carrier 1 Leads to Oligodendrocyte Precursor Cell Proliferation Defects Both In Vitro and In Vivo. International Journal of Molecular Sciences, 2019, 20, 4486.	1.8	10
61	Epigenetics and Communication Mechanisms in Microglia Activation with a View on Technological Approaches. Biomolecules, 2021, 11, 306.	1.8	10
62	Histone Post-translational Modifications to Target Memory-related Diseases. Current Pharmaceutical Design, 2013, 19, 5065-5075.	0.9	10
63	CRY1 Variations Impacts on the Depressive Relapse Rate in a Sample of Bipolar Patients. Psychiatry Investigation, 2015, 12, 118.	0.7	10
64	Differential Toxicity of Protease Inhibitors in Cultures of Cerebellar Granule Neurons. Experimental Neurology, 1998, 153, 335-341.	2.0	8
65	Î±-Linolenic Acidâ€“Valproic Acid Conjugates: Toward Single-Molecule Polypharmacology for Multiple Sclerosis. ACS Medicinal Chemistry Letters, 2020, 11, 2406-2413.	1.3	8
66	Memory-Enhancing Drugs: A Molecular Perspective. Mini-Reviews in Medicinal Chemistry, 2009, 9, 769-781.	1.1	8
67	The electron transport system of the halophilic purple nonsulfur bacterium Rhodospirillum salinarum . 1.â€‡A functional and thermodynamic analysis of the respiratory chain in aerobically and photosynthetically grown cells. Archives of Microbiology, 1997, 168, 302-309.	1.0	7
68	Characterization of DNA methylation as a function of biological complexity via dinucleotide inter-distances. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150227.	1.6	7
69	Genetic Variations within Metalloproteinases Impact on the Prophylaxis of Depressive Phases in Bipolar Patients. Neuropsychobiology, 2014, 69, 76-82.	0.9	6
70	Long INterspersed nuclear Elements (LINEs) in brain and non-brain tissues of the rat. Cell and Tissue Research, 2018, 374, 17-24.	1.5	6
71	From Combinations to Single-Molecule Polypharmacologyâ€”Cromolyn-Ibuprofen Conjugates for Alzheimerâ€™s Disease. Molecules, 2021, 26, 1112.	1.7	6
72	Histone Deacetylase (HDAC) Inhibitors as Potential Drugs to Target Memory and Adult Hippocampal Neurogenesis. Current Psychopharmacology, 2012, 1, 14-28.	0.1	2

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73	Dietary Protein Source Influences Brain Inflammation and Memory in a Male Senescence-Accelerated Mouse Model of Dementia. Molecular Neurobiology, 2021, 58, 1312-1329.	1.9	1
74	p57kip2 nuclear export as a marker of oligodendrocytes differentiation: Towards an innovative phenotyping screening for the identification of myelin repair drugs. EBioMedicine, 2021, 66, 103298.	2.7	1
75	Histone Deacetylase (HDAC) Inhibitors as Potential Drugs to Target Memory and Adult Hippocampal Neurogenesis. Current Psychopharmacology, 2012, 1, 14-28.	0.1	1
76	Histone Acetylation Defects in Brain Precursor Cells: A Potential Pathogenic Mechanism Causing Proliferation and Differentiation Dysfunctions in Mitochondrial Aspartate-Glutamate Carrier Isoform 1 Deficiency. Frontiers in Cellular Neuroscience, 2021, 15, 773709.	1.8	0