Maria Antonietta Ajmone-Cat

List of Publications by Year
in descending order

82 papers	4,365 citations	76326 40 h-index	110387 64 g-index
84 all docs	84 docs citations	84 times ranked	6196 citing authors

#	Article	IF	Citations
1	Repurposing Dipyridamole in Niemann Pick Type C Disease: A Proof of Concept Study. International Journal of Molecular Sciences, 2022, 23, 3456.	4.1	3
2	Critical Role of Maternal Selenium Nutrition in Neurodevelopment: Effects on Offspring Behavior and Neuroinflammatory Profile. Nutrients, 2022, 14, 1850.	4.1	12
3	Myelin like electrogenic filamentation and Liquid Microbial Fuel Cells Dataset. Data in Brief, 2022, 43, 108447.	1.0	1
4	Curcumin promotes oligodendrocyte differentiation and their protection against TNF-Î± through the activation of the nuclear receptor PPAR-Î³. Scientific Reports, 2021, 11, 4952.	3.3	38
5	Electrogenic and hydrocarbonoclastic biofilm at the oil-water interface as microbial responses to oil spill. Water Research, 2021, 197, 117092.	11.3	11
6	Myelin Defects in Niemannâ€“Pick Type C Disease: Mechanisms and Possible Therapeutic Perspectives. International Journal of Molecular Sciences, 2021, 22, 8858.	4.1	11
7	The Antihypertensive Drug Telmisartan Protects Oligodendrocytes from Cholesterol Accumulation and Promotes Differentiation by a PPAR-Î³-Mediated Mechanism. International Journal of Molecular Sciences, 2021, 22, 9434.	4.1	4
8	NRF2 and PPAR-Î³ Pathways in Oligodendrocyte Progenitors: Focus on ROS Protection, Mitochondrial Biogenesis and Promotion of Cell Differentiation. International Journal of Molecular Sciences, 2020, 21, 7216.	4.1	22
9	Integration of Multiple Platforms for the Analysis of Multifluorescent Marking Technology Applied to Pediatric GBM and DIPG. International Journal of Molecular Sciences, 2020, 21, 6763.	4.1	9
10	Adenosine A2A receptor stimulation restores cell functions and differentiation in Niemann-Pick type C-like oligodendrocytes. Scientific Reports, 2019, 9, 9782.	3.3	24
11	Interplay between inflammation and neural plasticity: Both immune activation and suppression impair LTP and BDNF expression. Brain, Behavior, and Immunity, 2019, 81, 484-494.	4.1	84
12	Brain-Immune Alterations and Mitochondrial Dysfunctions in a Mouse Model of Paediatric Autoimmune Disorder Associated with Streptococcus: Exacerbation by Chronic Psychosocial Stress. Journal of Clinical Medicine, 2019, 8, 1514.	2.4	2
13	Increased FUS levels in astrocytes leads to astrocyte and microglia activation and neuronal death. Scientific Reports, 2019, 9, 4572.	3.3	34
14	Adenosine Receptors and Neuroinflammation. , 2018, , 217-237.		2
15	Docosahexaenoic acid promotes oligodendrocyte differentiation via PPAR-Î³ signalling and prevents tumor necrosis factor-Î±-dependent maturational arrest. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2017, 1862, 1013-1023.	2.4	33
16	Targeting CXCR4 by a selective peptide antagonist modulates tumor microenvironment and microglia reactivity in a human glioblastoma model. Journal of Experimental and Clinical Cancer Research, 2016, 35, 55.	8.6	89
17	Megalencephalic leukoencephalopathy with subcortical cysts protein-1 regulates epidermal growth factor receptor signaling in astrocytes. Human Molecular Genetics, 2016, 25, 1543-1558.	2.9	32
18	Stimulation of adenosine A2A receptors reduces intracellular cholesterol accumulation and rescues mitochondrial abnormalities in human neural cell models of Niemann-Pick C1. Neuropharmacology, 2016, 103, 155-162.	4.1	22

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19	Glycogen synthase kinase 3 is part of the molecular machinery regulating the adaptive response to LPS stimulation in microglial cells. Brain, Behavior, and Immunity, 2016, 55, 225-235.	4.1	56
20	The mitochondrial uncoupling proteinâ€2 is a master regulator of both M1 and M2 microglial responses. Journal of Neurochemistry, 2015, 135, 147-156.	3.9	59
21	Peroxisome proliferator activated receptor-Î³ agonists protect oligodendrocyte progenitors against tumor necrosis factor-alpha-induced damage: Effects on mitochondrial functions and differentiation. Experimental Neurology, 2015, 271, 506-514.	4.1	51
22	Nonenzymatic oxygenated metabolites of Î±-linolenic acid B1- and L1-phytoprostanes protect immature neurons from oxidant injury and promote differentiation of oligodendrocyte progenitors through PPAR-Î³ activation. Free Radical Biology and Medicine, 2014, 73, 41-50.	2.9	64
23	Modulatory effects following subchronic stimulation of brain 5-HT7-R system in mice and rats. Reviews in the Neurosciences, 2014, 25, 383-400.	2.9	18
24	Microglial polarization and plasticity: Evidence from organotypic hippocampal slice cultures. Glia, 2013, 61, 1698-1711.	4.9	90
25	hMTH1 expression protects mitochondria from Huntington's disease-like impairment. Neurobiology of Disease, 2013, 49, 148-158.	4.4	17
26	Branched-chain amino acids influence the immune properties of microglial cells and their responsiveness to pro-inflammatory signals. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2013, 1832, 650-659.	3.8	101
27	The Matrix Metalloproteinase Inhibitor Marimastat Promotes Neural Progenitor Cell Differentiation into Neurons by Gelatinase-Independent TIMP-2-Dependent Mechanisms. Stem Cells and Development, 2013, 22, 345-358.	2.1	23
28	The nuclear receptor peroxisome proliferator-activated receptor-Î³ promotes oligodendrocyte differentiation through mechanisms involving mitochondria and oscillatory Ca²⁺ waves. Biological Chemistry, 2013, 394, 1607-1614.	2.5	25
29	The Stimulation of Adenosine A_{2A}Receptors Ameliorates the Pathological Phenotype of Fibroblasts from Niemann-Pick Type C Patients. Journal of Neuroscience, 2013, 33, 15388-15393.	3.6	33
30	Prolonged lifespan with enhanced exploratory behavior in mice overexpressing the oxidized nucleoside triphosphatase hMTH1. Aging Cell, 2013, 12, 695-705.	6.7	35
31	Transplacental Exposure to AZT Induces Adverse Neurochemical and Behavioral Effects in a Mouse Model: Protection by L-Acetylcarnitine. PLoS ONE, 2013, 8, e55753.	2.5	12
32	Role of neuroinflammation in hypertension-induced brain amyloid pathology. Neurobiology of Aging, 2012, 33, 205.e19-205.e29.	3.1	83
33	Muscarinic receptor subtypes as potential targets to modulate oligodendrocyte progenitor survival, proliferation, and differentiation. Developmental Neurobiology, 2012, 72, 713-728.	3.0	95
34	Docosahexaenoic acid modulates inflammatory and antineurogenic functions of activated microglial cells. Journal of Neuroscience Research, 2012, 90, 575-587.	2.9	80
35	Peroxisome Proliferator-Activated Receptor Î³ Agonists Accelerate Oligodendrocyte Maturation and Influence Mitochondrial Functions and Oscillatory Ca²⁺Waves. Journal of Neuropathology and Experimental Neurology, 2011, 70, 900-912.	1.7	41
36	Taking Pain Out of NGF: A â€œPainlessâ€•NGF Mutant, Linked to Hereditary Sensory Autonomic Neuropathy Type V, with Full Neurotrophic Activity. PLoS ONE, 2011, 6, e17321.	2.5	84

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37	Proâ€gliogenic effect of ILâ€1Î± in the differentiation of embryonic neural precursor cells in vitro. Journal of Neurochemistry, 2010, 113, 1060-1072.	3.9	30
38	TGFâ€Î² and LPS modulate ADPâ€induced migration of microglial cells through P2Y1 and P2Y12 receptor expression. Journal of Neurochemistry, 2010, 115, 450-459.	3.9	83
39	Non-Steroidal Anti-Inflammatory Drugs and Brain Inflammation: Effects on Microglial Functions. Pharmaceuticals, 2010, 3, 1949-1965.	3.8	98
40	Striatal 6-OHDA lesion in mice: Investigating early neurochemical changes underlying Parkinson's disease. Behavioural Brain Research, 2010, 208, 137-143.	2.2	45
41	Peroxisome Proliferator-Activated Receptor-Î³ Agonists Promote Differentiation and Antioxidant Defenses of Oligodendrocyte Progenitor Cells. Journal of Neuropathology and Experimental Neurology, 2009, 68, 797-808.	1.7	88
42	Brain Inflammation and the Neuronal Fate: from Neurogenesis to Neurodegeneration. , 2009, , 319-344.		0
43	Human immunodeficiency virus type-1 Tat protein induces nuclear factor (NF)-ÎºB activation and oxidative stress in microglial cultures by independent mechanisms. Journal of Neurochemistry, 2008, 79, 713-716.	3.9	46
44	In vitro neuronal and glial differentiation from embryonic or adult neural precursor cells are differently affected by chronic or acute activation of microglia. Glia, 2008, 56, 412-425.	4.9	202
45	Altered expression of cyclooxygenase-2, presenilins and oxygen radical scavenging enzymes in a rat model of global perinatal asphyxia. Experimental Neurology, 2008, 209, 192-198.	4.1	16
46	PPAR-, Microglial Cells, and Ocular Inflammation: New Venues for Potential Therapeutic Approaches. PPAR Research, 2008, 2008, 1-12.	2.4	29
47	Non Steroidal Anti-Inflammatory Drugs and Neurogenesis in the Adult Mammalian Brain. Current Pharmaceutical Design, 2008, 14, 1435-1442.	1.9	23
48	Regulation of Glial Cell Functions by PPAR- Natural and Synthetic Agonists. PPAR Research, 2008, 2008, 1-10.	2.4	97
49	NGF promotes microglial migration through the activation of its high affinity receptor: Modulation by TGF-Î². Journal of Neuroimmunology, 2007, 190, 53-60.	2.3	51
50	Dynamic regulation of microglial functions by the non-steroidal anti-inflammatory drug NCX 2216: Implications for chronic treatments of neurodegenerative diseases. Neurobiology of Disease, 2006, 22, 25-32.	4.4	22
51	Prostaglandin E2 and BDNF levels in rat hippocampus are negatively correlated with status epilepticus severity: No impact on survival of seizure-generated neurons. Neurobiology of Disease, 2006, 23, 23-35.	4.4	19
52	PPAR-γ Agonists as Regulators of Microglial Activation and Brain Inflammation. Current Pharmaceutical Design, 2006, 12, 93-109.	1.9	191
53	Nuclear receptor peroxisome proliferator-activated receptor-gamma is activated in rat microglial cells by the anti-inflammatory drug HCT1026, a derivative of flurbiprofen. Journal of Neurochemistry, 2005, 92, 895-903.	3.9	54
54	Cyclo-oxygenase-1 and -2 differently contribute to prostaglandinâ€ƒE2 synthesis and lipid peroxidation after in vivo activation of N-methyl-d-aspartate receptors in rat hippocampus. Journal of Neurochemistry, 2005, 93, 1561-1567.	3.9	114

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55	Microglial activation in chronic neurodegenerative diseases: roles of apoptotic neurons and chronic stimulation. Brain Research Reviews, 2005, 48, 251-256.	9.0	158
56	Activation of alpha7 nicotinic acetylcholine receptor by nicotine selectively up-regulates cyclooxygenase-2 and prostaglandin E2 in rat microglial cultures. Journal of Neuroinflammation, 2005, 2, 4.	7.2	209
57	Atypical Antiinflammatory Activation of Microglia Induced by Apoptotic Neurons: Possible Role of Phosphatidylserineâ€“Phosphatidylserine Receptor Interaction. Molecular Neurobiology, 2004, 29, 197-212.	4.0	89
58	Multiple Actions of the Human Immunodeficiency Virus Type-1 Tat Protein on Microglial Cell Functions. Neurochemical Research, 2004, 29, 965-978.	3.3	45
59	Peroxisomes and PPARs in Cultured Neural Cells. Advances in Experimental Medicine and Biology, 2004, 544, 271-280.	1.6	4
60	TNF? downregulates PPAR? expression in oligodendrocyte progenitor cells: Implications for demyelinating diseases. Glia, 2003, 41, 3-14.	4.9	61
61	Paracetamol effectively reduces prostaglandin E2 synthesis in brain macrophages by inhibiting enzymatic activity of cyclooxygenase but not phospholipase and prostaglandin E synthase. Journal of Neuroscience Research, 2003, 71, 844-852.	2.9	55
62	Effects of phosphatidylserine on p38 mitogen activated protein kinase, cyclic AMP responding element binding protein and nuclear factor-ÎºB activation in resting and activated microglial cells. Journal of Neurochemistry, 2003, 84, 413-416.	3.9	57
63	15-Deoxy-Î”12,14-prostaglandin J2 regulates the functional state and the survival of microglial cells through multiple molecular mechanisms. Journal of Neurochemistry, 2003, 87, 742-751.	3.9	42
64	Prolonged exposure of microglia to lipopolysaccharide modifies the intracellular signaling pathways and selectively promotes prostaglandin E2 synthesis. Journal of Neurochemistry, 2003, 87, 1193-1203.	3.9	71
65	Differential Lipid Peroxidation, Mn Superoxide, and bcl-2 Expression Contribute to the Maturation-Dependent Vulnerability of Oligodendrocytes to Oxidative Stress. Journal of Neuropathology and Experimental Neurology, 2003, 62, 509-519.	1.7	46
66	Apoptotic PC12 Cells Exposing Phosphatidylserine Promote the Production of Anti-Inflammatory and Neuroprotective Molecules by Microglial Cells. Journal of Neuropathology and Experimental Neurology, 2003, 62, 208-216.	1.7	67
67	Expression of Phosphatidylserine Receptor and Down-Regulation of Pro-Inflammatory Molecule Production by its Natural Ligand in Rat Microglial Cultures. Journal of Neuropathology and Experimental Neurology, 2002, 61, 237-244.	1.7	60
68	MODULATION OF PGE2 AND TNFÎ± BY NITRIC OXIDE IN RESTING AND LPS-ACTIVATED RAW 264.7 CELLS. Cytokine, 2002, 19, 175-180.	3.2	37
69	The presence of astrocytes enhances beta amyloid-induced neurotoxicity in hippocampal cell cultures. Journal of Physiology (Paris), 2002, 96, 313-316.	2.1	17
70	In vivo activation of Nâ€methylâ€<scp>d</scp>â€aspartate receptors in the rat hippocampus increases prostaglandin E₂ extracellular levels and triggers lipid peroxidation through cyclooxygenaseâ€mediated mechanisms. Journal of Neurochemistry, 2002, 81, 1028-1034.	3.9	70
71	Differential effects of the nonsteroidal antiinflammatory drug flurbiprofen and its nitric oxide-releasing derivative, nitroflurbiprofen, on prostaglandin E2, interleukin-1?, and nitric oxide synthesis by activated microglia. Journal of Neuroscience Research, 2001, 66, 715-722.	2.9	20
72	Astrocytes contribute to neuronal impairment in ?A toxicity increasing apoptosis in rat hippocampal neurons. Glia, 2001, 34, 68-72.	4.9	58

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73	Peroxisome proliferator-activated receptors (PPARs) and peroxisomes in rat cortical and cerebellar astrocytes. Journal of Neurocytology, 2001, 30, 671-683.	1.5	68
74	Role of the peroxisome proliferatorâ€activated receptorâ€Î³ (PPARâ€Î³) and its natural ligand 15â€deoxyâ€Î”^{12,14}â€prostaglandin J₂in the regulation of microglial functions. European Journal of Neuroscience, 2000, 12, 2215-2223.	2.6	205
75	Presence and inducibility of peroxisomes in a human glioblastoma cell line. Biochimica Et Biophysica Acta - General Subjects, 2000, 1474, 397-409.	2.4	30
76	Nuclear Factor kB-independent Cytoprotective Pathways Originating at Tumor Necrosis Factor Receptor-associated Factor 2. Journal of Biological Chemistry, 1998, 273, 31262-31272.	3.4	93
77	Synergistic stimulation of MHC class I and IRF-1 gene expression by IFN-gamma and TNF-alpha in oligodendrocytes. European Journal of Neuroscience, 1998, 10, 2975-2983.	2.6	1
78	HIV-gp120 affects the functional activity of oligodendrocytes and their susceptibility to complement. Journal of Neuroscience Research, 1997, 50, 946-957.	2.9	20
79	Human immunodeficiency virus protein gp120 interferes with Î²-adrenergic receptor-mediated protein phosphorylation in cultured rat cortical astrocytes. Cellular and Molecular Neurobiology, 1994, 14, 159-173.	3.3	21
80	Human immunodeficiency virus coat protein gp120 inhibits the beta-adrenergic regulation of astroglial and microglial functions.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 1541-1545.	7.1	143
81	Liver peroxisomes in newborns from clofibrate-treated rats. I. A morphometric study of the recovery period. Biology of the Cell, 1992, 74, 307-314.	2.0	8
82	Insulin receptor in mouse neuroblastoma cell line N18TG2: Binding properties and visualization with colloidal gold. International Journal of Developmental Neuroscience, 1992, 10, 281-289.	1.6	1