Maria Antonietta Ajmone-Cat

List of Publications by Year
in descending order

82	4,365	76326 40	110387 64
papers	citations	h-index	g-index

84	84	84	6196
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	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
3	<i>In vitro</i> 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
4	PPAR-γ Agonists as Regulators of Microglial Activation and Brain Inflammation. Current Pharmaceutical Design, 2006, 12, 93-109.	1.9	191
5	Microglial activation in chronic neurodegenerative diseases: roles of apoptotic neurons and chronic stimulation. Brain Research Reviews, 2005, 48, 251-256.	9.0	158
6	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
7	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
8	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
9	Non-Steroidal Anti-Inflammatory Drugs and Brain Inflammation: Effects on Microglial Functions. Pharmaceuticals, 2010, 3, 1949-1965.	3.8	98
10	Regulation of Glial Cell Functions by PPAR- Natural and Synthetic Agonists. PPAR Research, 2008, 2008, 1-10.	2.4	97
11	Muscarinic receptor subtypes as potential targets to modulate oligodendrocyte progenitor survival, proliferation, and differentiation. Developmental Neurobiology, 2012, 72, 713-728.	3.0	95
12	Nuclear Factor κB-independent Cytoprotective Pathways Originating at Tumor Necrosis Factor Receptor-associated Factor 2. Journal of Biological Chemistry, 1998, 273, 31262-31272.	3.4	93
13	Microglial polarization and plasticity: Evidence from organotypic hippocampal slice cultures. Glia, 2013, 61, 1698-1711.	4.9	90
14	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
15	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
16	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
17	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
18	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

#	Article	IF	Citations
19	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
20	Role of neuroinflammation in hypertension-induced brain amyloid pathology. Neurobiology of Aging, 2012, 33, 205.e19-205.e29.	3.1	83
21	Docosahexaenoic acid modulates inflammatory and antineurogenic functions of activated microglial cells. Journal of Neuroscience Research, 2012, 90, 575-587.	2.9	80
22	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
23	<i>In vivo</i> activation of <i>N</i>â€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
24	Peroxisome proliferator-activated receptors (PPARs) and peroxisomes in rat cortical and cerebellar astrocytes. Journal of Neurocytology, 2001, 30, 671-683.	1.5	68
25	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
26	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
27	TNF? downregulates PPAR? expression in oligodendrocyte progenitor cells: Implications for demyelinating diseases. Glia, 2003, 41, 3-14.	4.9	61
28	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
29	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
30	Astrocytes contribute to neuronal impairment in ?A toxicity increasing apoptosis in rat hippocampal neurons. Glia, 2001, 34, 68-72.	4.9	58
31	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
32	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
33	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
34	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
35	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
36	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

#	Article	IF	Citations
37	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
38	Human immunodeficiency virus type-1 Tat protein induces nuclear factor (NF)-Î°B activation and oxidative stress in microglial cultures by independent mechanisms. Journal of Neurochemistry, 2008, 79, 713-716.	3.9	46
39	Multiple Actions of the Human Immunodeficiency Virus Type-1 Tat Protein on Microglial Cell Functions. Neurochemical Research, 2004, 29, 965-978.	3.3	45
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	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
42	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
43	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
44	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
45	Prolonged lifespan with enhanced exploratory behavior in mice overexpressing the oxidized nucleoside triphosphatase hMTH1. Aging Cell, 2013, 12, 695-705.	6.7	35
46	Increased FUS levels in astrocytes leads to astrocyte and microglia activation and neuronal death. Scientific Reports, 2019, 9, 4572.	3.3	34
47	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
48	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
49	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
50	Presence and inducibility of peroxisomes in a human glioblastoma cell line. Biochimica Et Biophysica Acta - General Subjects, 2000, 1474, 397-409.	2.4	30
51	Proâ€gliogenic effect of ILâ€1Î± in the differentiation of embryonic neural precursor cells <i>in vitro</i>. Journal of Neurochemistry, 2010, 113, 1060-1072.	3.9	30
52	PPAR-, Microglial Cells, and Ocular Inflammation: New Venues for Potential Therapeutic Approaches. PPAR Research, 2008, 2008, 1-12.	2.4	29
53	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
54	Adenosine A2A receptor stimulation restores cell functions and differentiation in Niemann-Pick type C-like oligodendrocytes. Scientific Reports, 2019, 9, 9782.	3.3	24

#	Article	IF	Citations
55	Non Steroidal Anti-Inflammatory Drugs and Neurogenesis in the Adult Mammalian Brain. Current Pharmaceutical Design, 2008, 14, 1435-1442.	1.9	23
56	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
57	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
58	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
59	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
60	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
61	HIV-gp120 affects the functional activity of oligodendrocytes and their susceptibility to complement. Journal of Neuroscience Research, 1997, 50, 946-957.	2.9	20
62	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
63	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
64	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
65	The presence of astrocytes enhances beta amyloid-induced neurotoxicity in hippocampal cell cultures. Journal of Physiology (Paris), 2002, 96, 313-316.	2.1	17
66	hMTH1 expression protects mitochondria from Huntington's disease-like impairment. Neurobiology of Disease, 2013, 49, 148-158.	4.4	17
67	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
68	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
69	Critical Role of Maternal Selenium Nutrition in Neurodevelopment: Effects on Offspring Behavior and Neuroinflammatory Profile. Nutrients, 2022, 14, 1850.	4.1	12
70	Electrogenic and hydrocarbonoclastic biofilm at the oil-water interface as microbial responses to oil spill. Water Research, 2021, 197, 117092.	11.3	11
71	Myelin Defects in Niemannâ€"Pick Type C Disease: Mechanisms and Possible Therapeutic Perspectives. International Journal of Molecular Sciences, 2021, 22, 8858.	4.1	11
72	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

#	Article	IF	Citations
73	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
74	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
75	Peroxisomes and PPARs in Cultured Neural Cells. Advances in Experimental Medicine and Biology, 2004, 544, 271-280.	1.6	4
76	Repurposing Dipyridamole in Niemann Pick Type C Disease: A Proof of Concept Study. International Journal of Molecular Sciences, 2022, 23, 3456.	4.1	3
77	Adenosine Receptors and Neuroinflammation. , 2018, , 217-237.		2
78	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
79	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
80	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
81	Myelin like electrogenic filamentation and Liquid Microbial Fuel Cells Dataset. Data in Brief, 2022, 43, 108447.	1.0	1
82	Brain Inflammation and the Neuronal Fate: from Neurogenesis to Neurodegeneration. , 2009, , 319-344.		0