

Elena Alberdi

List of Publications by Year in descending order

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59
papers

4,403
citations

101543

36
h-index

149698

56
g-index

65
all docs

65
docs citations

65
times ranked

5560
citing authors

#	ARTICLE	IF	CITATIONS
1	P2X ₇ Receptor Blockade Prevents ATP Excitotoxicity in Oligodendrocytes and Ameliorates Experimental Autoimmune Encephalomyelitis. <i>Journal of Neuroscience</i> , 2007, 27, 9525-9533.	3.6	356
2	The link between excitotoxic oligodendroglial death and demyelinating diseases. <i>Trends in Neurosciences</i> , 2001, 24, 224-230.	8.6	320
3	Amyloid β oligomers induce Ca ²⁺ dysregulation and neuronal death through activation of ionotropic glutamate receptors. <i>Cell Calcium</i> , 2010, 47, 264-272.	2.4	318
4	Excitotoxic damage to white matter. <i>Journal of Anatomy</i> , 2007, 210, 693-702.	1.5	216
5	Microglia Actively Remodel Adult Hippocampal Neurogenesis through the Phagocytosis Secretome. <i>Journal of Neuroscience</i> , 2020, 40, 1453-1482.	3.6	204
6	Amyloid β peptide oligomers directly activate NMDA receptors. <i>Cell Calcium</i> , 2011, 49, 184-190.	2.4	192
7	P2X7 receptors mediate ischemic damage to oligodendrocytes. <i>Glia</i> , 2010, 58, 730-740.	4.9	191
8	Ca ²⁺ -dependent endoplasmic reticulum stress correlates with astroglialosis in oligomeric amyloid β -treated astrocytes and in a model of Alzheimer's disease. <i>Aging Cell</i> , 2013, 12, 292-302.	6.7	160
9	Neuroprotection by two polyphenols following excitotoxicity and experimental ischemia. <i>Neurobiology of Disease</i> , 2006, 23, 374-386.	4.4	145
10	Caspase-Dependent and Caspase-Independent Oligodendrocyte Death Mediated by AMPA and Kainate Receptors. <i>Journal of Neuroscience</i> , 2003, 23, 9519-9528.	3.6	134
11	Binding of Pigment Epithelium-derived Factor (PEDF) to Retinoblastoma Cells and Cerebellar Granule Neurons. <i>Journal of Biological Chemistry</i> , 1999, 274, 31605-31612.	3.4	120
12	Excitotoxicity in glial cells. <i>European Journal of Pharmacology</i> , 2002, 447, 239-246.	3.5	117
13	Endoplasmic reticulum Ca ²⁺ release through ryanodine and IP3 receptors contributes to neuronal excitotoxicity. <i>Cell Calcium</i> , 2009, 46, 273-281.	2.4	113
14	Ca ²⁺ Influx through AMPA or Kainate Receptors Alone Is Sufficient to Initiate Excitotoxicity in Cultured Oligodendrocytes. <i>Neurobiology of Disease</i> , 2002, 9, 234-243.	4.4	110
15	Pigment epithelium-derived factor promotes the survival and differentiation of developing spinal motor neurons. <i>Journal of Comparative Neurology</i> , 1999, 412, 506-514.	1.6	105
16	Pigment Epithelium-Derived Factor (PEDF) Binds to Glycosaminoglycans: Analysis of the Binding Site. <i>Biochemistry</i> , 1998, 37, 10643-10652.	2.5	100
17	Intracellular Ca ²⁺ release through ryanodine receptors contributes to AMPA receptor-mediated mitochondrial dysfunction and ER stress in oligodendrocytes. <i>Cell Death and Disease</i> , 2010, 1, e54-e54.	6.3	88
18	Activation of Kainate Receptors Sensitizes Oligodendrocytes to Complement Attack. <i>Journal of Neuroscience</i> , 2006, 26, 3220-3228.	3.6	87

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19	Mitochondrial Division Inhibitor 1 (mdivi-1) Protects Neurons against Excitotoxicity through the Modulation of Mitochondrial Function and Intracellular Ca ²⁺ Signaling. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 3.	2.9	74
20	Differential oxidative stress in oligodendrocytes and neurons after excitotoxic insults and protection by natural polyphenols. <i>Glia</i> , 2006, 53, 201-211.	4.9	72
21	A checkerboard method to evaluate interactions between drugs. <i>Biochemical Pharmacology</i> , 1996, 51, 635-644.	4.4	70
22	Calcium and glial cell death. <i>Cell Calcium</i> , 2005, 38, 417-425.	2.4	68
23	Gain-of-function of P2X7 receptor gene variants in multiple sclerosis. <i>Cell Calcium</i> , 2011, 50, 468-472.	2.4	63
24	Mangiferin and Morin Attenuate Oxidative Stress, Mitochondrial Dysfunction, and Neurocytotoxicity, Induced by Amyloid Beta Oligomers. <i>Oxidative Medicine and Cellular Longevity</i> , 2018, 2018, 1-13.	4.0	62
25	Astrocytes in Alzheimer's Disease: Pathological Significance and Molecular Pathways. <i>Cells</i> , 2021, 10, 540.	4.1	62
26	CGP37157, an inhibitor of the mitochondrial Na ⁺ /Ca ²⁺ exchanger, protects neurons from excitotoxicity by blocking voltage-gated Ca ²⁺ channels. <i>Cell Death and Disease</i> , 2014, 5, e1156-e1156.	6.3	56
27	Bax and Calpain Mediate Excitotoxic Oligodendrocyte Death Induced by Activation of Both AMPA and Kainate Receptors. <i>Journal of Neuroscience</i> , 2011, 31, 2996-3006.	3.6	55
28	Recombinant human pigment epithelium-derived factor (PEDF): Characterization of PEDF overexpressed and secreted by eukaryotic cells. <i>Protein Science</i> , 1996, 5, 2575-2582.	7.6	54
29	Contribution of Neurons and Glial Cells to Complement-Mediated Synapse Removal during Development, Aging and in Alzheimer's Disease. <i>Mediators of Inflammation</i> , 2018, 2018, 1-12.	3.0	54
30	Amyloid β -induced astrogliosis is mediated by β 1-integrin via NADPH oxidase 2 in Alzheimer's disease. <i>Aging Cell</i> , 2016, 15, 1140-1152.	6.7	53
31	β 2 oligomers promote oligodendrocyte differentiation and maturation via integrin β 1 and Fyn kinase signaling. <i>Cell Death and Disease</i> , 2019, 10, 445.	6.3	49
32	Oligodendrocyte differentiation from adult multipotent stem cells is modulated by glutamate. <i>Cell Death and Disease</i> , 2012, 3, e268-e268.	6.3	47
33	Dual-specific Phosphatase-6 (Dusp6) and ERK Mediate AMPA Receptor-induced Oligodendrocyte Death. <i>Journal of Biological Chemistry</i> , 2011, 286, 11825-11836.	3.4	46
34	β 42 Amyloid peptide requires PDK1/nPKC/Rac 1 pathway to induce neuronal death. <i>Translational Psychiatry</i> , 2013, 3, e219-e219.	4.8	44
35	Axon-to-Glia Interaction Regulates GABA _A Receptor Expression in Oligodendrocytes. <i>Molecular Pharmacology</i> , 2016, 89, 63-74.	2.3	43
36	CB ₁ cannabinoid receptor-dependent and -independent inhibition of depolarization-induced calcium influx in oligodendrocytes. <i>Glia</i> , 2009, 57, 295-306.	4.9	42

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37	Oligodendrocyte Differentiation and Myelination Is Potentiated via GABAB Receptor Activation. <i>Neuroscience</i> , 2020, 439, 163-180.	2.3	39
38	Zn ²⁺ -induced ERK activation mediates PARP1-dependent ischemic reoxygenation damage to oligodendrocytes. <i>Glia</i> , 2013, 61, 383-393.	4.9	36
39	Contribution of phosphodiesterase isoenzymes and cyclic nucleotide efflux to the regulation of cyclic GMP levels in aortic smooth muscle cells. <i>Biochemical Pharmacology</i> , 1999, 58, 1675-1683.	4.4	30
40	Early Effects of A β Oligomers on Dendritic Spine Dynamics and Arborization in Hippocampal Neurons. <i>Frontiers in Synaptic Neuroscience</i> , 2020, 12, 2.	2.5	29
41	Mitochondrial division inhibitor 1 disrupts oligodendrocyte Ca ²⁺ homeostasis and mitochondrial function. <i>Glia</i> , 2020, 68, 1743-1756.	4.9	23
42	A β 42 triggers the generation of a retrograde signaling complex from sentinel mRNA in axons. <i>EMBO Reports</i> , 2018, 19, .	4.5	22
43	A Model of Ischemia-Induced Neuroblast Activation in the Adult Subventricular Zone. <i>PLoS ONE</i> , 2009, 4, e5278.	2.5	19
44	A Neuron, Microglia, and Astrocyte Triple Co-culture Model to Study Alzheimer's Disease. <i>Frontiers in Aging Neuroscience</i> , 2022, 14, 844534.	3.4	18
45	Synthesis and anti-HIV-1 activities of new pyrimido[5,4-b]indoles. <i>Il Farmaco</i> , 1999, 54, 255-264.	0.9	16
46	Amyloid β / PKC-dependent alterations in NMDA receptor composition are detected in early stages of Alzheimer's disease. <i>Cell Death and Disease</i> , 2022, 13, 253.	6.3	16
47	RNA Localization and Local Translation in Glia in Neurological and Neurodegenerative Diseases: Lessons from Neurons. <i>Cells</i> , 2021, 10, 632.	4.1	15
48	Isolation, Expansion, and Maturation of Oligodendrocyte Lineage Cells Obtained from Rat Neonatal Brain and Optic Nerve. <i>Methods in Molecular Biology</i> , 2018, 1791, 95-113.	0.9	11
49	New 4-Amino-7,8-dimethoxy-5h-pyrimido[5,4-b]indole Derivatives: Synthesis and Studies as Inhibitors of Phosphodiesterases. <i>Archiv Der Pharmazie</i> , 1993, 326, 879-885.	4.1	8
50	Sephin1 Protects Neurons against Excitotoxicity Independently of the Integrated Stress Response. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6088.	4.1	8
51	A Novel Class of Cardiotoxic Agents: Synthesis and Biological Evaluation of Pyridazino[4,5-b]indoles with Cyclic AMP Phosphodiesterases Inhibiting Properties. <i>Journal of Pharmaceutical Sciences</i> , 1993, 82, 526-530.	3.3	6
52	New Indole and Triazino[5,4-b]indol-4-one Derivatives: Synthesis and Studies as Inotropics and Inhibitors of Blood Platelet Aggregation. <i>Archiv Der Pharmazie</i> , 1992, 325, 439-452.	4.1	4
53	New Indole and Pyridazinoindole Analogs – Synthesis and Study as Inhibitors of Phosphodiesterases and as Inhibitors of Blood Platelet Aggregation. <i>Archiv Der Pharmazie</i> , 1995, 328, 689-698.	4.1	3
54	Inflammation and Noninhibitor Serpins. <i>Advances in Experimental Medicine and Biology</i> , 1997, , 307-339.	1.6	2

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55	Pigment Epithelium-Derived Factor (PEDF) in the Retina. , 1999, , 519-526.		1
56	Recombinant Integrin $\alpha 21$ Signal Peptide Blocks Gliosis Induced by $A\beta 2$ Oligomers. International Journal of Molecular Sciences, 2022, 23, 5747.	4.1	1
57	Calcium Dyshomeostasis in Astrocytes After Ischemia. , 2012, , 103-127.		0
58	Polyphenols attenuate mitochondrial dysfunction induced by amyloid peptides. , 2021, , 317-337.		0
59	Calcium Dyshomeostasis in White Matter Injury. , 2014, , 433-460.		0