

Elena Alberdi

List of Publications by Year in descending order

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59
papers

4,403
citations

101496

36
h-index

149623

56
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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. | 1.7 | 356 |
| 2 | The link between excitotoxic oligodendroglial death and demyelinating diseases. <i>Trends in Neurosciences</i> , 2001, 24, 224-230. | 4.2 | 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. | 1.1 | 318 |
| 4 | Excitotoxic damage to white matter. <i>Journal of Anatomy</i> , 2007, 210, 693-702. | 0.9 | 216 |
| 5 | Microglia Actively Remodel Adult Hippocampal Neurogenesis through the Phagocytosis Secretome. <i>Journal of Neuroscience</i> , 2020, 40, 1453-1482. | 1.7 | 204 |
| 6 | Amyloid β peptide oligomers directly activate NMDA receptors. <i>Cell Calcium</i> , 2011, 49, 184-190. | 1.1 | 192 |
| 7 | P2X ₇ receptors mediate ischemic damage to oligodendrocytes. <i>Glia</i> , 2010, 58, 730-740. | 2.5 | 191 |
| 8 | Ca ²⁺ -dependent endoplasmic reticulum stress correlates with astrogliosis in oligomeric amyloid β -treated astrocytes and in a model of Alzheimer's disease. <i>Aging Cell</i> , 2013, 12, 292-302. | 3.0 | 160 |
| 9 | Neuroprotection by two polyphenols following excitotoxicity and experimental ischemia. <i>Neurobiology of Disease</i> , 2006, 23, 374-386. | 2.1 | 145 |
| 10 | Caspase-Dependent and Caspase-Independent Oligodendrocyte Death Mediated by AMPA and Kainate Receptors. <i>Journal of Neuroscience</i> , 2003, 23, 9519-9528. | 1.7 | 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. | 1.6 | 120 |
| 12 | Excitotoxicity in glial cells. <i>European Journal of Pharmacology</i> , 2002, 447, 239-246. | 1.7 | 117 |
| 13 | Endoplasmic reticulum Ca ²⁺ release through ryanodine and IP ₃ receptors contributes to neuronal excitotoxicity. <i>Cell Calcium</i> , 2009, 46, 273-281. | 1.1 | 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. | 2.1 | 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. | 0.9 | 105 |
| 16 | Pigment Epithelium-Derived Factor (PEDF) Binds to Glycosaminoglycans: Analysis of the Binding Site. <i>Biochemistry</i> , 1998, 37, 10643-10652. | 1.2 | 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. | 2.7 | 88 |
| 18 | Activation of Kainate Receptors Sensitizes Oligodendrocytes to Complement Attack. <i>Journal of Neuroscience</i> , 2006, 26, 3220-3228. | 1.7 | 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. | 1.4 | 74 |
| 20 | Differential oxidative stress in oligodendrocytes and neurons after excitotoxic insults and protection by natural polyphenols. <i>Glia</i> , 2006, 53, 201-211. | 2.5 | 72 |
| 21 | A checkerboard method to evaluate interactions between drugs. <i>Biochemical Pharmacology</i> , 1996, 51, 635-644. | 2.0 | 70 |
| 22 | Calcium and glial cell death. <i>Cell Calcium</i> , 2005, 38, 417-425. | 1.1 | 68 |
| 23 | Gain-of-function of P2X7 receptor gene variants in multiple sclerosis. <i>Cell Calcium</i> , 2011, 50, 468-472. | 1.1 | 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. | 1.9 | 62 |
| 25 | Astrocytes in Alzheimer's Disease: Pathological Significance and Molecular Pathways. <i>Cells</i> , 2021, 10, 540. | 1.8 | 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. | 2.7 | 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. | 1.7 | 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. | 3.1 | 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. | 1.4 | 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. | 3.0 | 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. | 2.7 | 49 |
| 32 | Oligodendrocyte differentiation from adult multipotent stem cells is modulated by glutamate. <i>Cell Death and Disease</i> , 2012, 3, e268-e268. | 2.7 | 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. | 1.6 | 46 |
| 34 | β 42 Amyloid peptide requires PDK1/nPKC/Rac 1 pathway to induce neuronal death. <i>Translational Psychiatry</i> , 2013, 3, e219-e219. | 2.4 | 44 |
| 35 | Axon-to-Glia Interaction Regulates GABA _A Receptor Expression in Oligodendrocytes. <i>Molecular Pharmacology</i> , 2016, 89, 63-74. | 1.0 | 43 |
| 36 | CB ₁ cannabinoid receptor-dependent and -independent inhibition of depolarization-induced calcium influx in oligodendrocytes. <i>Glia</i> , 2009, 57, 295-306. | 2.5 | 42 |

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|----|---|-----|-----------|
| 37 | Oligodendrocyte Differentiation and Myelination Is Potentiated via GABAB Receptor Activation. <i>Neuroscience</i> , 2020, 439, 163-180. | 1.1 | 39 |
| 38 | Zn ²⁺ -induced ERK activation mediates PARP1-dependent ischemic reoxygenation damage to oligodendrocytes. <i>Glia</i> , 2013, 61, 383-393. | 2.5 | 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. | 2.0 | 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. | 1.3 | 29 |
| 41 | Mitochondrial division inhibitor 1 disrupts oligodendrocyte Ca ²⁺ homeostasis and mitochondrial function. <i>Glia</i> , 2020, 68, 1743-1756. | 2.5 | 23 |
| 42 | A β 42 triggers the generation of a retrograde signaling complex from sentinel mRNA in axons. <i>EMBO Reports</i> , 2018, 19, . | 2.0 | 22 |
| 43 | A Model of Ischemia-Induced Neuroblast Activation in the Adult Subventricular Zone. <i>PLoS ONE</i> , 2009, 4, e5278. | 1.1 | 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. | 1.7 | 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. | 2.7 | 16 |
| 47 | RNA Localization and Local Translation in Glia in Neurological and Neurodegenerative Diseases: Lessons from Neurons. <i>Cells</i> , 2021, 10, 632. | 1.8 | 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. | 0.4 | 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. | 2.1 | 8 |
| 50 | Sephin1 Protects Neurons against Excitotoxicity Independently of the Integrated Stress Response. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6088. | 1.8 | 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. | 1.6 | 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. | 2.1 | 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. | 2.1 | 3 |
| 54 | Inflammation and Noninhibitor Serpins. <i>Advances in Experimental Medicine and Biology</i> , 1997, , 307-339. | 0.8 | 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 $A\beta$ Oligomers. International Journal of Molecular Sciences, 2022, 23, 5747. | 1.8 | 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 |