

Blanca I Aldana

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

985
citations

471509

17
h-index

501196

28
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31
all docs

31
docs citations

31
times ranked

1088
citing authors

#	ARTICLE	IF	CITATIONS
1	Deficient astrocyte metabolism impairs glutamine synthesis and neurotransmitter homeostasis in a mouse model of Alzheimer's disease. <i>Neurobiology of Disease</i> , 2021, 148, 105198.	4.4	52
2	Downregulation of GABA Transporter 3 (GAT3) is Associated with Deficient Oxidative GABA Metabolism in Human Induced Pluripotent Stem Cell-Derived Astrocytes in Alzheimer's Disease. <i>Neurochemical Research</i> , 2021, 46, 2676-2686.	3.3	13
3	Pharmacological inhibition of mitochondrial soluble adenylyl cyclase in astrocytes causes activation of $\text{AMP}\text{-activated protein kinase}$ and induces breakdown of glycogen. <i>Glia</i> , 2021, 69, 2828-2844.	4.9	11
4	Functional Metabolic Mapping Reveals Highly Active Branched-Chain Amino Acid Metabolism in Human Astrocytes, Which Is Impaired in iPSC-Derived Astrocytes in Alzheimer's Disease. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 736580.	3.4	35
5	Glutamate metabolism and recycling at the excitatory synapse in health and neurodegeneration. <i>Neuropharmacology</i> , 2021, 196, 108719.	4.1	145
6	Astrocyte metabolism of the medium-chain fatty acids octanoic acid and decanoic acid promotes GABA synthesis in neurons via elevated glutamine supply. <i>Molecular Brain</i> , 2021, 14, 132.	2.6	39
7	Inhibition of Glutamate Release, but Not of Glutamine Recycling to Glutamate, Is Involved in Delaying the Onset of Initial Lithium-Pilocarpine-Induced Seizures in Young Rats by a Non-Convulsive MSO Dose. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11127.	4.1	3
8	Hippocampal disruptions of synaptic and astrocyte metabolism are primary events of early amyloid pathology in the 5xFAD mouse model of Alzheimer's disease. <i>Cell Death and Disease</i> , 2021, 12, 954.	6.3	41
9	Astrocytic reactivity triggered by defective autophagy and metabolic failure causes neurotoxicity in frontotemporal dementia type 3. <i>Stem Cell Reports</i> , 2021, 16, 2736-2751.	4.8	23
10	Brain endothelial cells metabolize glutamate via glutamate dehydrogenase to replenish TCA intermediates and produce ATP under hypoglycemic conditions. <i>Journal of Neurochemistry</i> , 2020, 157, 1861-1875.	3.9	8
11	Glutamate-glutamine homeostasis is perturbed in neurons and astrocytes derived from patient iPSC models of frontotemporal dementia. <i>Molecular Brain</i> , 2020, 13, 125.	2.6	36
12	Cytoplasmic Citrate Flux Modulates the Immune Stimulatory NKG2D Ligand MICA in Cancer Cells. <i>Frontiers in Immunology</i> , 2020, 11, 1968.	4.8	11
13	Conditional Knockout of GLT-1 in Neurons Leads to Alterations in Aspartate Homeostasis and Synaptic Mitochondrial Metabolism in Striatum and Hippocampus. <i>Neurochemical Research</i> , 2020, 45, 1420-1437.	3.3	17
14	Extensive astrocyte metabolism of L-glutamic acid (GABA) sustains glutamine synthesis in the mammalian cerebral cortex. <i>Glia</i> , 2020, 68, 2601-2612.	4.9	28
15	<i>Staphylococcus aureus</i> induces cell-surface expression of immune stimulatory NKG2D ligands on human monocytes. <i>Journal of Biological Chemistry</i> , 2020, 295, 11803-11821.	3.4	10
16	Distinct differences in rates of oxygen consumption and ATP synthesis of regionally isolated non-synaptic mouse brain mitochondria. <i>Journal of Neuroscience Research</i> , 2019, 97, 961-974.	2.9	22
17	Microglia-Specific Metabolic Changes in Neurodegeneration. <i>Journal of Molecular Biology</i> , 2019, 431, 1830-1842.	4.2	83
18	Dual Properties of Lactate in Müller Cells: The Effect of GPR81 Activation. , 2019, 60, 999.		19

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19	Enhanced cerebral branched-chain amino acid metabolism in R6/2 mouse model of Huntington's disease. <i>Cellular and Molecular Life Sciences</i> , 2019, 76, 2449-2461.	5.4	12
20	Lactate-Mediated Protection of Retinal Ganglion Cells. <i>Journal of Molecular Biology</i> , 2019, 431, 1878-1888.	4.2	25
21	Deletion of Neuronal GLT-1 in Mice Reveals Its Role in Synaptic Glutamate Homeostasis and Mitochondrial Function. <i>Journal of Neuroscience</i> , 2019, 39, 4847-4863.	3.6	42
22	Essential Roles of Lactate in Müller Cell Survival and Function. <i>Molecular Neurobiology</i> , 2018, 55, 9108-9121.	4.0	22
23	Warburg Effect Metabolism Drives Neoplasia in a Drosophila Genetic Model of Epithelial Cancer. <i>Current Biology</i> , 2018, 28, 3220-3228.e6.	3.9	33
24	Integrative Characterization of the R6/2 Mouse Model of Huntington's Disease Reveals Dysfunctional Astrocyte Metabolism. <i>Cell Reports</i> , 2018, 23, 2211-2224.	6.4	79
25	Patient iPSC-Derived Neurons for Disease Modeling of Frontotemporal Dementia with Mutation in CHMP2B. <i>Stem Cell Reports</i> , 2017, 8, 648-658.	4.8	65
26	Characterization of the L-glutamate clearance pathways across the blood-brain barrier and the effect of astrocytes in an in vitro blood-brain barrier model. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 3744-3758.	4.3	9
27	Characterization of energy and neurotransmitter metabolism in cortical glutamatergic neurons derived from human induced pluripotent stem cells: A novel approach to study metabolism in human neurons. <i>Neurochemistry International</i> , 2017, 106, 48-61.	3.8	14
28	The novel anticonvulsant neuropeptide and galanin analogue, NAX5055, does not alter energy and amino acid metabolism in cultured brain cells. <i>Journal of Neuroscience Research</i> , 2017, 95, 2286-2296.	2.9	0
29	Metabolic Characterization of Acutely Isolated Hippocampal and Cerebral Cortical Slices Using [U-13C]Glucose and [1,2-13C]Acetate as Substrates. <i>Neurochemical Research</i> , 2017, 42, 810-826.	3.3	30
30	Alterations in Cerebral Cortical Glucose and Glutamine Metabolism Precedes Amyloid Plaques in the APP ^{swE} /PSEN1 ^{dE9} Mouse Model of Alzheimer's Disease. <i>Neurochemical Research</i> , 2017, 42, 1589-1598.	3.3	58