Alessandra Castegna

List of Publications by Year
in descending order

60	8,442	109321 35	138484 58
papers	citations	h-index	g-index

64	64	64	10199
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Metabolic Signature of Macrophage Responses. Frontiers in Immunology, 2019, 10, 1462.	4.8	1,083
2	Evidence of oxidative damage in Alzheimer's disease brain: central role for amyloid Î²-peptide. Trends in Molecular Medicine, 2001, 7, 548-554.	6.7	1,044
3	Evidence that amyloid beta-peptide-induced lipid peroxidation and its sequelae in Alzheimerâ€™s disease brain contribute to neuronal death1. Neurobiology of Aging, 2002, 23, 655-664.	3.1	628
4	Proteomic identification of oxidatively modified proteins in alzheimerâ€™s disease brain. part I: creatine kinase BB, glutamine synthase, and ubiquitin carboxy-terminal hydrolase L-1. Free Radical Biology and Medicine, 2002, 33, 562-571.	2.9	545
5	Proteomic identification of oxidatively modified proteins in Alzheimer's disease brain. Part II: dihydropyrimidinaseâ€related proteinâ€ƒ2, Î±â€enolase and heat shock cognateâ€ƒ71. Journal of Neurochemistry, 2002, 82, 1524-1532.	3.9	528
6	Proteomic identification of nitrated proteins in Alzheimer's disease brain. Journal of Neurochemistry, 2003, 85, 1394-1401.	3.9	514
7	Nutritional approaches to combat oxidative stress in Alzheimerâ€™s disease. Journal of Nutritional Biochemistry, 2002, 13, 444-461.	4.2	343
8	UCP2 transports C4 metabolites out of mitochondria, regulating glucose and glutamine oxidation. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 960-965.	7.1	322
9	Pharmacologic or Genetic Targeting of Glutamine Synthetase Skews Macrophages toward an M1-like Phenotype and Inhibits Tumor Metastasis. Cell Reports, 2017, 20, 1654-1666.	6.4	258
10	Identification of the Mitochondrial NAD+ Transporter in Saccharomyces cerevisiae. Journal of Biological Chemistry, 2006, 281, 1524-1531.	3.4	215
11	Mitochondrial DNA methylation as a next-generation biomarker and diagnostic tool. Molecular Genetics and Metabolism, 2013, 110, 25-34.	1.1	203
12	Proteomics in Alzheimer's disease: insights into potential mechanisms of neurodegeneration. Journal of Neurochemistry, 2003, 86, 1313-1327.	3.9	171
13	Quantitative proteomics analysis of specific protein expression and oxidative modification in aged senescence-accelerated-prone 8 mice brain. Neuroscience, 2004, 126, 915-926.	2.3	148
14	Identification of mitochondrial carriers in Saccharomyces cerevisiae by transport assay of reconstituted recombinant proteins. Biochimica Et Biophysica Acta - Bioenergetics, 2006, 1757, 1249-1262.	1.0	147
15	Knockout of Slc25a19 causes mitochondrial thiamine pyrophosphate depletion, embryonic lethality, CNS malformations, and anemia. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 15927-15932.	7.1	147
16	Proteomic identification of proteins oxidized by AÎ²(1â€“42) in synaptosomes: Implications for Alzheimer's disease. Brain Research, 2005, 1044, 206-215.	2.2	137
17	Vitamin E and Neurodegenerative Disorders Associated with Oxidative Stress. Nutritional Neuroscience, 2002, 5, 229-239.	3.1	136
18	Reactive Oxygen Species in Macrophages: Sources and Targets. Frontiers in Immunology, 2021, 12, 734229.	4.8	134

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19	Impairment of methyl cycle affects mitochondrial methyl availability and glutathione level in Down's syndrome. Molecular Genetics and Metabolism, 2011, 102, 378-382.	1.1	119
20	Redox proteomics identification of oxidatively modified brain proteins in inherited Alzheimer's disease: An initial assessment. Journal of Alzheimer's Disease, 2006, 10, 391-397.	2.6	107
21	Identification and Functional Characterization of a Novel Mitochondrial Carrier for Citrate and Oxoglutarate in Saccharomyces cerevisiae. Journal of Biological Chemistry, 2010, 285, 17359-17370.	3.4	107
22	Modulation of phospholipid asymmetry in synaptosomal membranes by the lipid peroxidation products, 4-hydroxynonenal and acrolein: implications for Alzheimer's disease. Brain Research, 2004, 1004, 193-197.	2.2	102
23	Proteomic analysis of brain proteins in the gracile axonal dystrophy (gad) mouse, a syndrome that emanates from dysfunctional ubiquitin carboxylâ€terminal hydrolase Lâ€1, reveals oxidation of key proteins. Journal of Neurochemistry, 2004, 88, 1540-1546.	3.9	89
24	Acetylation of human mitochondrial citrate carrier modulates mitochondrial citrate/malate exchange activity to sustain NADPH production during macrophage activation. Biochimica Et Biophysica Acta - Bioenergetics, 2015, 1847, 729-738.	1.0	79
25	Metabolism and <scp>TAM</scp> functionsâ€”it takes two to tango. FEBS Journal, 2018, 285, 700-716.	4.7	73
26	The mitochondrial side of epigenetics. Physiological Genomics, 2015, 47, 299-307.	2.3	72
27	4-Hydroxynonenal oxidatively modifies histones: implications for Alzheimer's disease. Neuroscience Letters, 2004, 356, 155-158.	2.1	68
28	The Crowded Crosstalk between Cancer Cells and Stromal Microenvironment in Gynecological Malignancies: Biological Pathways and Therapeutic Implication. International Journal of Molecular Sciences, 2019, 20, 2401.	4.1	67
29	Oxidative stress and reduced glutamine synthetase activity in the absence of inflammation in the cortex of mice with experimental allergic encephalomyelitis. Neuroscience, 2011, 185, 97-105.	2.3	61
30	Blockade of Glutamine Synthetase Enhances Inflammatory Response in Microglial Cells. Antioxidants and Redox Signaling, 2017, 26, 351-363.	5.4	61
31	Hyperhomocysteinemia: Related genetic diseases and congenital defects, abnormal DNA methylation and newborn screening issues. Molecular Genetics and Metabolism, 2014, 113, 27-33.	1.1	53
32	Proteomics for the identification of specifically oxidized proteins in brain: Technology and application to the study of neurodegenerative disorders. Amino Acids, 2003, 25, 419-425.	2.7	48
33	Pharmacological targets of metabolism in disease: Opportunities from macrophages. , 2020, 210, 107521.		45
34	Glutamine Synthetase: Localization Dictates Outcome. Genes, 2018, 9, 108.	2.4	44
35	Molecular identification and functional characterization of a novel glutamate transporter in yeast and plant mitochondria. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, 1249-1258.	1.0	39
36	Identification of mitochondrial thiamin diphosphate carriers from Arabidopsis and maize. Functional and Integrative Genomics, 2012, 12, 317-326.	3.5	37

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37	SLC25A10 biallelic mutations in intractable epileptic encephalopathy with complex I deficiency. Human Molecular Genetics, 2018, 27, 499-504.	2.9	37
38	<scp>SLC</scp>25A26 overexpression impairs cell function via mt<scp>DNA</scp> hypermethylation and rewiring of methyl metabolism. FEBS Journal, 2017, 284, 967-984.	4.7	33
39	Role of FOXA in mitochondrial citrate carrier gene expression and insulin secretion. Biochemical and Biophysical Research Communications, 2009, 385, 220-224.	2.1	32
40	Identification of Mitochondrial Coenzyme A Transporters from Maize and Arabidopsis Â Â. Plant Physiology, 2013, 162, 581-588.	4.8	31
41	Glutamine synthetase desensitizes differentiated adipocytes to proinflammatory stimuli by raising intracellular glutamine levels. FEBS Letters, 2014, 588, 4807-4814.	2.8	31
42	Targeting monoamine oxidase to dampen NLRP3 inflammasome activation in inflammation. Cellular and Molecular Immunology, 2021, 18, 1311-1313.	10.5	31
43	Derivatives of Xanthic Acid are Novel Antioxidants: Application to Synaptosomes. Free Radical Research, 2003, 37, 355-365.	3.3	30
44	Glufosinate constrains synchronous and metachronous metastasis by promoting antiâ€tumor macrophages. EMBO Molecular Medicine, 2020, 12, e11210.	6.9	29
45	The Effects of Chronic Lifelong Activation of the AHR Pathway by Industrial Chemical Pollutants on Female Human Reproduction. PLoS ONE, 2016, 11, e0152181.	2.5	23
46	The Saccharomyces cerevisiae gene YPR011c encodes a mitochondrial transporter of adenosine 5â€²-phosphosulfate and 3â€²-phospho-adenosine 5â€²-phosphosulfate. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 326-334.	1.0	22
47	Down-regulation of the mitochondrial aspartate-glutamate carrier isoform 1 AGC1 inhibits proliferation and N-acetylaspartate synthesis in Neuro2A cells. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2017, 1863, 1422-1435.	3.8	22
48	N â€acetylaspartate release by glutaminolytic ovarian cancer cells sustains protumoral macrophages. EMBO Reports, 2021, 22, e51981.	4.5	22
49	Clinical implications from proteomic studies in neurodegenerative diseases: lessons from mitochondrial proteins. Expert Review of Proteomics, 2016, 13, 259-274.	3.0	20
50	Monoamine oxidase-dependent histamine catabolism accounts for post-ischemic cardiac redox imbalance and injury. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2018, 1864, 3050-3059.	3.8	18
51	The dominant-negative mitochondrial calcium uniporter subunit MCUb drives macrophage polarization during skeletal muscle regeneration. Science Signaling, 2021, 14, eabf3838.	3.6	17
52	Mitochondrial carriers in inflammation induced by bacterial endotoxin and cytokines. Biological Chemistry, 2017, 398, 303-317.	2.5	13
53	Differential Expression of ADP/ATP Carriers as a Biomarker of Metabolic Remodeling and Survival in Kidney Cancers. Biomolecules, 2021, 11, 38.	4.0	12
54	Metabolic Features of Brain Function with Relevance to Clinical Features of Alzheimer and Parkinson Diseases. Molecules, 2022, 27, 951.	3.8	12

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55	Impact of Immunometabolism on Cancer Metastasis: A Focus on T Cells and Macrophages. Cold Spring Harbor Perspectives in Medicine, 2020, 10, a037044.	6.2	10
56	Tumor growth of neurofibromin-deficient cells is driven by decreased respiration and hampered by NAD+ and SIRT3. Cell Death and Differentiation, 2022, 29, 1996-2008.	11.2	8
57	The J2-Immortalized Murine Macrophage Cell Line Displays Phenotypical and Metabolic Features of Primary BMDMs in Their M1 and M2 Polarization State. Cancers, 2021, 13, 5478.	3.7	6
58	PNC2 (SLC25A36) Deficiency Associated With the Hyperinsulinism/Hyperammonemia Syndrome. Journal of Clinical Endocrinology and Metabolism, 2021, , .	3.6	5
59	Editorial: Metabolism Meets Function: Untangling the Cross-Talk Between Signaling and Metabolism. Frontiers in Oncology, 2020, 10, 607511.	2.8	3
60	UCP2 exports C4 metabolites out of mitochondria in exchange for phosphate. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, e33.	1.0	0