

Alessandra Castegna

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54 papers	6,493 citations	31 h-index	64 g-index
64 ext. papers	7,511 ext. citations	5.9 avg, IF	5.67 L-index

#	Paper	IF	Citations
54	Evidence of oxidative damage in Alzheimer's disease brain: central role for amyloid beta-peptide. <i>Trends in Molecular Medicine</i> , 2001 , 7, 548-54	11.5	934
53	Evidence that amyloid beta-peptide-induced lipid peroxidation and its sequelae in Alzheimer's disease brain contribute to neuronal death. <i>Neurobiology of Aging</i> , 2002 , 23, 655-64	5.6	564
52	Proteomic identification of oxidatively modified proteins in Alzheimer's disease brain. Part I: creatine kinase BB, glutamine synthase, and ubiquitin carboxy-terminal hydrolase L-1. <i>Free Radical Biology and Medicine</i> , 2002 , 33, 562-71	7.8	497
51	Proteomic identification of nitrated proteins in Alzheimer's disease brain. <i>Journal of Neurochemistry</i> , 2003 , 85, 1394-401	6	466
50	Proteomic identification of oxidatively modified proteins in Alzheimer's disease brain. Part II: dihydropyrimidinase-related protein 2, alpha-enolase and heat shock cognate 71. <i>Journal of Neurochemistry</i> , 2002 , 82, 1524-32	6	463
49	The Metabolic Signature of Macrophage Responses. <i>Frontiers in Immunology</i> , 2019 , 10, 1462	8.4	425
48	Nutritional approaches to combat oxidative stress in Alzheimer's disease. <i>Journal of Nutritional Biochemistry</i> , 2002 , 13, 444	6.3	293
47	UCP2 transports C4 metabolites out of mitochondria, regulating glucose and glutamine oxidation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 960-5	11.5	250
46	Identification of the mitochondrial NAD ⁺ transporter in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2006 , 281, 1524-31	5.4	173
45	Mitochondrial DNA methylation as a next-generation biomarker and diagnostic tool. <i>Molecular Genetics and Metabolism</i> , 2013 , 110, 25-34	3.7	171
44	Proteomics in Alzheimer's disease: insights into potential mechanisms of neurodegeneration. <i>Journal of Neurochemistry</i> , 2003 , 86, 1313-27	6	156
43	Pharmacologic or Genetic Targeting of Glutamine Synthetase Skews Macrophages toward an M1-like Phenotype and Inhibits Tumor Metastasis. <i>Cell Reports</i> , 2017 , 20, 1654-1666	10.6	153
42	Quantitative proteomics analysis of specific protein expression and oxidative modification in aged senescence-accelerated-prone 8 mice brain. <i>Neuroscience</i> , 2004 , 126, 915-26	3.9	138
41	Proteomic identification of proteins oxidized by Aβ(1-42) in synaptosomes: implications for Alzheimer's disease. <i>Brain Research</i> , 2005 , 1044, 206-15	3.7	128
40	Identification of mitochondrial carriers in <i>Saccharomyces cerevisiae</i> by transport assay of reconstituted recombinant proteins. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2006 , 1757, 1249-62	4.6	127
39	Vitamin E and neurodegenerative disorders associated with oxidative stress. <i>Nutritional Neuroscience</i> , 2002 , 5, 229-39	3.6	124
38	Knockout of Slc25a19 causes mitochondrial thiamine pyrophosphate depletion, embryonic lethality, CNS malformations, and anemia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 15927-32	11.5	122

37	Impairment of methyl cycle affects mitochondrial methyl availability and glutathione level in Down's syndrome. <i>Molecular Genetics and Metabolism</i> , 2011 , 102, 378-82	3.7	110
36	Redox proteomics identification of oxidatively modified brain proteins in inherited Alzheimer's disease: an initial assessment. <i>Journal of Alzheimer's Disease</i> , 2006 , 10, 391-7	4.3	103
35	Identification and functional characterization of a novel mitochondrial carrier for citrate and oxoglutarate in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2010 , 285, 17359-70	5.4	89
34	Modulation of phospholipid asymmetry in synaptosomal membranes by the lipid peroxidation products, 4-hydroxynonenal and acrolein: implications for Alzheimer's disease. <i>Brain Research</i> , 2004 , 1004, 193-7	3.7	84
33	Proteomic analysis of brain proteins in the gracile axonal dystrophy (gad) mouse, a syndrome that emanates from dysfunctional ubiquitin carboxyl-terminal hydrolase L-1, reveals oxidation of key proteins. <i>Journal of Neurochemistry</i> , 2004 , 88, 1540-6	6	83
32	Acetylation of human mitochondrial citrate carrier modulates mitochondrial citrate/malate exchange activity to sustain NADPH production during macrophage activation. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2015 , 1847, 729-38	4.6	65
31	4-Hydroxynonenal oxidatively modifies histones: implications for Alzheimer's disease. <i>Neuroscience Letters</i> , 2004 , 356, 155-8	3.3	63
30	The mitochondrial side of epigenetics. <i>Physiological Genomics</i> , 2015 , 47, 299-307	3.6	58
29	Hyperhomocysteinemia: related genetic diseases and congenital defects, abnormal DNA methylation and newborn screening issues. <i>Molecular Genetics and Metabolism</i> , 2014 , 113, 27-33	3.7	48
28	Oxidative stress and reduced glutamine synthetase activity in the absence of inflammation in the cortex of mice with experimental allergic encephalomyelitis. <i>Neuroscience</i> , 2011 , 185, 97-105	3.9	48
27	Proteomics for the identification of specifically oxidized proteins in brain: technology and application to the study of neurodegenerative disorders. <i>Amino Acids</i> , 2003 , 25, 419-25	3.5	47
26	Metabolism and TAM functions-it takes two to tango. <i>FEBS Journal</i> , 2018 , 285, 700-716	5.7	43
25	Blockade of Glutamine Synthetase Enhances Inflammatory Response in Microglial Cells. <i>Antioxidants and Redox Signaling</i> , 2017 , 26, 351-363	8.4	42
24	The Crowded Crosstalk between Cancer Cells and Stromal Microenvironment in Gynecological Malignancies: Biological Pathways and Therapeutic Implication. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	38
23	Identification of mitochondrial thiamin diphosphate carriers from Arabidopsis and maize. <i>Functional and Integrative Genomics</i> , 2012 , 12, 317-26	3.8	29
22	Role of FOXA in mitochondrial citrate carrier gene expression and insulin secretion. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 385, 220-4	3.4	29
21	Derivatives of xanthic acid are novel antioxidants: application to synaptosomes. <i>Free Radical Research</i> , 2003 , 37, 355-65	4	28
20	SLC25A26 overexpression impairs cell function via mtDNA hypermethylation and rewiring of methyl metabolism. <i>FEBS Journal</i> , 2017 , 284, 967-984	5.7	27

19	Identification of mitochondrial coenzyme a transporters from maize and Arabidopsis. <i>Plant Physiology</i> , 2013 , 162, 581-8	6.6	26
18	Glutamine Synthetase: Localization Dictates Outcome. <i>Genes</i> , 2018 , 9,	4.2	25
17	Glutamine synthetase desensitizes differentiated adipocytes to proinflammatory stimuli by raising intracellular glutamine levels. <i>FEBS Letters</i> , 2014 , 588, 4807-14	3.8	24
16	Molecular identification and functional characterization of a novel glutamate transporter in yeast and plant mitochondria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2018 , 1859, 1249-1258	4.6	24
15	SLC25A10 biallelic mutations in intractable epileptic encephalopathy with complex I deficiency. <i>Human Molecular Genetics</i> , 2018 , 27, 499-504	5.6	23
14	The Effects of Chronic Lifelong Activation of the AHR Pathway by Industrial Chemical Pollutants on Female Human Reproduction. <i>PLoS ONE</i> , 2016 , 11, e0152181	3.7	20
13	Targeting monoamine oxidase to dampen NLRP3 inflammasome activation in inflammation. <i>Cellular and Molecular Immunology</i> , 2021 , 18, 1311-1313	15.4	19
12	The <i>Saccharomyces cerevisiae</i> gene YPR011c encodes a mitochondrial transporter of adenosine 5Tphosphosulfate and 3Tphospho-adenosine 5Tphosphosulfate. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014 , 1837, 326-34	4.6	18
11	Reactive Oxygen Species in Macrophages: Sources and Targets. <i>Frontiers in Immunology</i> , 2021 , 12, 734229	29.4	17
10	Clinical implications from proteomic studies in neurodegenerative diseases: lessons from mitochondrial proteins. <i>Expert Review of Proteomics</i> , 2016 , 13, 259-74	4.2	14
9	Down-regulation of the mitochondrial aspartate-glutamate carrier isoform 1 AGC1 inhibits proliferation and N-acetylaspartate synthesis in Neuro2A cells. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017 , 1863, 1422-1435	6.9	13
8	Pharmacological targets of metabolism in disease: Opportunities from macrophages. <i>Pharmacology & Therapeutics</i> , 2020 , 210, 107521	13.9	13
7	Monoamine oxidase-dependent histamine catabolism accounts for post-ischemic cardiac redox imbalance and injury. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018 , 1864, 3050-3059	6.9	11
6	Glufosinate constrains synchronous and metachronous metastasis by promoting anti-tumor macrophages. <i>EMBO Molecular Medicine</i> , 2020 , 12, e11210	12	8
5	Mitochondrial carriers in inflammation induced by bacterial endotoxin and cytokines. <i>Biological Chemistry</i> , 2017 , 398, 303-317	4.5	7
4	Impact of Immunometabolism on Cancer Metastasis: A Focus on T Cells and Macrophages. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2020 , 10,	5.4	3
3	Differential Expression of ADP/ATP Carriers as a Biomarker of Metabolic Remodeling and Survival in Kidney Cancers. <i>Biomolecules</i> , 2020 , 11,	5.9	3
2	N-acetylaspartate release by glutaminolytic ovarian cancer cells sustains protumoral macrophages. <i>EMBO Reports</i> , 2021 , 22, e51981	6.5	2

- 1 The dominant-negative mitochondrial calcium uniporter subunit MCUb drives macrophage polarization during skeletal muscle regeneration. *Science Signaling*, **2021**, 14, eabf3838 8.8 1