Mariarita Bertoldi

List of Publications by Year
in descending order

45 papers	1,406 citations	304602 22 h-index	345118 36 g-index
46 all docs	46 docs citations	46 times ranked	2078 citing authors

#	Article	IF	Citations
1	Resveratrol accelerates erythroid maturation by activation of FoxO3 and ameliorates anemia in beta-thalassemic mice. Haematologica, 2014, 99, 267-275.	1.7	89
2	Protective Effect of Epigallocatechin-3-Gallate (EGCG) in Diseases with Uncontrolled Immune Activation: Could Such a Scenario Be Helpful to Counteract COVID-19?. International Journal of Molecular Sciences, 2020, 21, 5171.	1.8	81
3	Mammalian dopa decarboxylase: Structure, catalytic activity and inhibition. Archives of Biochemistry and Biophysics, 2014, 546, 1-7.	1.4	78
4	Erythrocyte membrane changes of chorea-acanthocytosis are the result of altered Lyn kinase activity. Blood, 2011, 118, 5652-5663.	0.6	73
5	Membrane association of peroxiredoxin-2 in red cells is mediated by the N-terminal cytoplasmic domain of band 3. Free Radical Biology and Medicine, 2013, 55, 27-35.	1.3	71
6	Aromatic amino acid decarboxylase deficiency: Molecular and metabolic basis and therapeutic outlook. Molecular Genetics and Metabolism, 2019, 127, 12-22.	0.5	66
7	Oxidative stress modulates heme synthesis and induces peroxiredoxin-2 as a novel cytoprotective response in Â-thalassemic erythropoiesis. Haematologica, 2011, 96, 1595-1604.	1.7	63
8	Mutation of Tyrosine 332 to Phenylalanine Converts Dopa Decarboxylase into a Decarboxylation-dependent Oxidative Deaminase. Journal of Biological Chemistry, 2002, 277, 36357-36362.	1.6	60
9	Peroxiredoxin-2 expression is increased in Î²-thalassemic mouse red cells but is displaced from the membrane as a marker of oxidative stress. Free Radical Biology and Medicine, 2010, 49, 457-466.	1.3	55
10	Green Tea Polyphenols: Novel Irreversible Inhibitors of Dopa Decarboxylase. Biochemical and Biophysical Research Communications, 2001, 284, 90-93.	1.0	54
11	Reaction Specificity of Native and Nicked 3,4-Dihydroxyphenylalanine Decarboxylase. Journal of Biological Chemistry, 1999, 274, 5514-5521.	1.6	47
12	A new molecular link between defective autophagy and erythroid abnormalities in chorea-acanthocytosis. Blood, 2016, 128, 2976-2987.	0.6	47
13	Reaction of Dopa Decarboxylase with Î±-Methyldopa Leads to an Oxidative Deamination Producing 3,4-Dihydroxyphenylacetone, an Active Site Directed Affinity Labelâ€. Biochemistry, 1998, 37, 6552-6561.	1.2	45
14	Mechanism-based Inactivation of Dopa Decarboxylase by Serotonin. Journal of Biological Chemistry, 1996, 271, 23954-23959.	1.6	39
15	Does the aromatic l-amino acid decarboxylase contribute to thyronamine biosynthesis?. Molecular and Cellular Endocrinology, 2012, 349, 195-201.	1.6	37
16	The novel role of peroxiredoxin-2 in red cell membrane protein homeostasis and senescence. Free Radical Biology and Medicine, 2014, 76, 80-88.	1.3	35
17	Reaction of dopa decarboxylase with L-aromatic amino acids under aerobic and anaerobic conditions. Biochemical Journal, 2000, 352, 533-538.	1.7	32
18	Deoxygenation affects tyrosine phosphoproteome of red cell membrane from patients with sickle cell disease. Blood Cells, Molecules, and Diseases, 2010, 44, 233-242.	0.6	30

#	Article	IF	Citations
19	Ornithine and glutamate decarboxylases catalyse an oxidative deamination of their Î±-methyl substrates. Biochemical Journal, 1999, 342, 509-512.	1.7	27
20	Insights into the Mechanism of Oxidative Deamination Catalyzed by DOPA Decarboxylase. Biochemistry, 2008, 47, 7187-7195.	1.2	26
21	Mutation of residues in the coenzyme binding pocket of Dopa decarboxylase. FEBS Journal, 2001, 268, 2975-2981.	0.2	25
22	Mutation of cysteine 111 in Dopa decarboxylase leads to active site perturbation. Protein Science, 1997, 6, 2007-2015.	3.1	23
23	Reaction and substrate specificity of recombinant pig kidney Dopa decarboxylase under aerobic and anaerobic conditions. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2003, 1647, 42-47.	1.1	20
24	Multiple roles of the active site lysine of Dopa decarboxylase. Archives of Biochemistry and Biophysics, 2009, 488, 130-139.	1.4	20
25	A quinonoid is an intermediate of oxidative deamination reaction catalyzed by Dopa decarboxylase. FEBS Letters, 2005, 579, 5175-5180.	1.3	19
26	Probing the Role of Tyr 64 ofTreponema denticolaCystalysin by Site-Directed Mutagenesis and Kinetic Studiesâ€. Biochemistry, 2005, 44, 13970-13980.	1.2	19
27	A novel compound heterozygous genotype associated with aromatic amino acid decarboxylase deficiency: Clinical aspects and biochemical studies. Molecular Genetics and Metabolism, 2019, 127, 132-137.	0.5	19
28	New variants of AADC deficiency expand the knowledge of enzymatic phenotypes. Archives of Biochemistry and Biophysics, 2020, 682, 108263.	1.4	19
29	Human Peroxiredoxins 1 and 2 and Their Interacting Protein Partners; Through Structure Toward Functions of Biological Complexes. Protein and Peptide Letters, 2015, 23, 69-77.	0.4	17
30	Parkinson's Disease: Recent Updates in the Identification of Human Dopa Decarboxylase Inhibitors. Current Drug Metabolism, 2016, 17, 513-518.	0.7	17
31	Dopa decarboxylase exhibits low pH half-transaminase and high pH oxidative deaminase activities toward serotonin (5-hydroxytryptamine). Protein Science, 2001, 10, 1178-1186.	3.1	16
32	Aromatic <scp>l</scp>-amino acid decarboxylase deficiency: a patient-derived neuronal model for precision therapies. Brain, 2021, 144, 2443-2456.	3.7	16
33	Reaction of dopa decarboxylase with l-aromatic amino acids under aerobic and anaerobic conditions. Biochemical Journal, 2000, 352, 533.	1.7	15
34	The novel R347g pathogenic mutation of aromatic amino acid decarboxylase provides additional molecular insights into enzyme catalysis and deficiency. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2016, 1864, 676-682.	1.1	15
35	Aromatic amino acid methyl ester analogs form quinonoidal species with Dopa decarboxylase. FEBS Letters, 1997, 412, 245-248.	1.3	13
36	Heterozygosis in aromatic amino acid decarboxylase deficiency: Evidence for a positive interallelic complementation between R347Q and R358H mutations. IUBMB Life, 2018, 70, 215-223.	1.5	13

#	Article	IF	Citations
37	New Insights Emerging from Recent Investigations on Human Group II Pyridoxal 5â€™-Phosphate Decarboxylases. Current Medicinal Chemistry, 2017, 24, 226-244.	1.2	13
38	Oxygen reactivity with pyridoxal 5â€²-phosphate enzymes: biochemical implications and functional relevance. Amino Acids, 2020, 52, 1089-1105.	1.2	12
39	Compound heterozygosis in AADC deficiency: A complex phenotype dissected through comparison among heterodimeric and homodimeric AADC proteins. Molecular Genetics and Metabolism, 2021, 134, 147-155.	0.5	10
40	The novel P330L pathogenic variant of aromatic amino acid decarboxylase maps on the catalytic flexible loop underlying its crucial role. Cellular and Molecular Life Sciences, 2022, 79, 305.	2.4	8
41	Phosphorylation of pyridoxal 5â€²-phosphate enzymes: an intriguing and neglected topic. Amino Acids, 2018, 50, 205-215.	1.2	5
42	Cysteine 180 Is a Redox Sensor Modulating the Activity of Human Pyridoxal 5â€²-Phosphate Histidine Decarboxylase. Biochemistry, 2018, 57, 6336-6348.	1.2	5
43	Succinic Semialdehyde Dehydrogenase Deficiency: In Vitro and In Silico Characterization of a Novel Pathogenic Missense Variant and Analysis of the Mutational Spectrum of ALDH5A1. International Journal of Molecular Sciences, 2020, 21, 8578.	1.8	5
44	Tyrosine Phosphorylation Modulates Peroxiredoxin-2 Activity in Normal and Diseased Red Cells. Antioxidants, 2021, 10, 206.	2.2	4
45	Structural Insights into the Heme Pocket and Oligomeric State of Non-Symbiotic Hemoglobins from Arabidopsis thaliana. Biomolecules, 2020, 10, 1615.	1.8	3