Lilian GonzÃ¡lez-Segura

List of Publications by Year
in descending order

25 papers	511 citations	687363 13 h-index	677142 22 g-index
25 all docs	25 docs citations	25 times ranked	608 citing authors

#	Article	IF	Citations
1	High resolution crystal structure of NaTrxh from Nicotiana alata and its interaction with the S-RNase. Journal of Structural Biology, 2020, 212, 107578.	2.8	5
2	Interaction of N-succinyl diaminopimelate desuccinylase with orphenadrine and disulfiram. Journal of Molecular Structure, 2020, 1222, 128928.	3.6	7
3	Structural and biochemical evidence of the glucose 6-phosphate-allosteric site of maize C4-phosphoenolpyruvate carboxylase: its importance in the overall enzyme kinetics. Biochemical Journal, 2020, 477, 2095-2114.	3.7	5
4	Identification of the allosteric site for neutral amino acids in the maize C4 isozyme of phosphoenolpyruvate carboxylase: The critical role of Ser-100. Journal of Biological Chemistry, 2018, 293, 9945-9957.	3.4	11
5	Mechanisms of protection against irreversible oxidation of the catalytic cysteine of ALDH enzymes: Possible role of vicinal cysteines. Chemico-Biological Interactions, 2017, 276, 52-64.	4.0	11
6	Amino acid residues that affect the basicity of the catalytic glutamate of the hydrolytic aldehyde dehydrogenases. Chemico-Biological Interactions, 2015, 234, 45-58.	4.0	12
7	Residues that influence coenzyme preference in the aldehyde dehydrogenases. Chemico-Biological Interactions, 2015, 234, 59-74.	4.0	12
8	Exploring the evolutionary route of the acquisition of betaine aldehyde dehydrogenase activity by plant ALDH10 enzymes: implications for the synthesis of the osmoprotectant glycine betaine. BMC Plant Biology, 2014, 14, 149.	3.6	19
9	Catalytic contribution of threonine 244 in human ALDH2. Chemico-Biological Interactions, 2013, 202, 32-40.	4.0	4
10	Potential monovalent cation-binding sites in aldehyde dehydrogenases. Chemico-Biological Interactions, 2013, 202, 41-50.	4.0	7
11	Structural determinants of substrate specificity in aldehyde dehydrogenases. Chemico-Biological Interactions, 2013, 202, 51-61.	4.0	43
12	Amino Acid Residues Critical for the Specificity for Betaine Aldehyde of the Plant ALDH10 Isoenzyme Involved in the Synthesis of Glycine Betaine Â Â. Plant Physiology, 2012, 158, 1570-1582.	4.8	45
13	Novel NADPHâ€“cysteine covalent adduct found in the active site of an aldehyde dehydrogenase. Biochemical Journal, 2011, 439, 443-455.	3.7	19
14	Crystallographic evidence for active-site dynamics in the hydrolytic aldehyde dehydrogenases. Implications for the deacylation step of the catalyzed reaction. Chemico-Biological Interactions, 2011, 191, 137-146.	4.0	20
15	Kinetic and structural features of betaine aldehyde dehydrogenases: Mechanistic and regulatory implications. Archives of Biochemistry and Biophysics, 2010, 493, 71-81.	3.0	41
16	Reaction of the catalytic cysteine of betaine aldehyde dehydrogenase from Pseudomonas aeruginosa with arsenite-BAL and phenylarsine oxide. Chemico-Biological Interactions, 2009, 178, 64-69.	4.0	5
17	The Crystal Structure of A Ternary Complex of Betaine Aldehyde Dehydrogenase from Pseudomonas aeruginosa Provides New Insight into the Reaction Mechanism and Shows A Novel Binding Mode of the 2â€²-Phosphate of NADP+ and A Novel Cation Binding Site. Journal of Molecular Biology, 2009, 385, 542-557.	4.2	64
18	Ternary Complex Formation and Induced Asymmetry in Orotate Phosphoribosyltransferase[,]. Biochemistry, 2007, 46, 14075-14086.	2.5	44

#	Article	IF	Citations
19	Disulfiram irreversibly aggregates betaine aldehyde dehydrogenaseâ€"A potential target for antimicrobial agents against Pseudomonas aeruginosa. Biochemical and Biophysical Research Communications, 2006, 341, 408-415.	2.1	30
20	Site-directed mutagenesis and homology modeling indicate an important role of cysteine 439 in the stability of betaine aldehyde dehydrogenase from Pseudomonas aeruginosa. Biochimie, 2005, 87, 1056-1064.	2.6	15
21	Ligand-induced conformational changes of betaine aldehyde dehydrogenase from Pseudomonas aeruginosa and Amaranthus hypochondriacus L. leaves affecting the reactivity of the catalytic thiol. Chemico-Biological Interactions, 2003, 143-144, 129-137.	4.0	9
22	Modulation of the reactivity of the essential cysteine residue of betaine aldehyde dehydrogenase from Pseudomonas aeruginosa. Biochemical Journal, 2002, 361, 577.	3.7	8
23	Modulation of the reactivity of the essential cysteine residue of betaine aldehyde dehydrogenase from Pseudomonas aeruginosa. Biochemical Journal, 2002, 361, 577-585.	3.7	19
24	Steady-state kinetic mechanism of the NADP+- and NAD+-dependent reactions catalysed by betaine aldehyde dehydrogenase from Pseudomonas aeruginosa. Biochemical Journal, 2000, 352, 675.	3.7	17
25	Steady-state kinetic mechanism of the NADP+- and NAD+-dependent reactions catalysed by betaine aldehyde dehydrogenase from Pseudomonas aeruginosa. Biochemical Journal, 2000, 352, 675-683.	3.7	39