

Lilian González-Segura

List of Publications by Year in descending order

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Version: 2024-02-01

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	The Crystal Structure of A Ternary Complex of Betaine Aldehyde Dehydrogenase from <i>Pseudomonas aeruginosa</i> Provides New Insight into the Reaction Mechanism and Shows A Novel Binding Mode of the β -Phosphate of NADP ⁺ and A Novel Cation Binding Site. <i>Journal of Molecular Biology</i> , 2009, 385, 542-557.	4.2	64
2	Amino Acid Residues Critical for the Specificity for Betaine Aldehyde of the Plant ALDH10 Isoenzyme Involved in the Synthesis of Glycine Betaine \ddot{A} . <i>Plant Physiology</i> , 2012, 158, 1570-1582.	4.8	45
3	Ternary Complex Formation and Induced Asymmetry in Orotate Phosphoribosyltransferase. <i>Biochemistry</i> , 2007, 46, 14075-14086.	2.5	44
4	Structural determinants of substrate specificity in aldehyde dehydrogenases. <i>Chemico-Biological Interactions</i> , 2013, 202, 51-61.	4.0	43
5	Kinetic and structural features of betaine aldehyde dehydrogenases: Mechanistic and regulatory implications. <i>Archives of Biochemistry and Biophysics</i> , 2010, 493, 71-81.	3.0	41
6	Steady-state kinetic mechanism of the NADP ⁺ - and NAD ⁺ -dependent reactions catalysed by betaine aldehyde dehydrogenase from <i>Pseudomonas aeruginosa</i> . <i>Biochemical Journal</i> , 2000, 352, 675-683.	3.7	39
7	Disulfiram irreversibly aggregates betaine aldehyde dehydrogenase—A potential target for antimicrobial agents against <i>Pseudomonas aeruginosa</i> . <i>Biochemical and Biophysical Research Communications</i> , 2006, 341, 408-415.	2.1	30
8	Crystallographic evidence for active-site dynamics in the hydrolytic aldehyde dehydrogenases. Implications for the deacylation step of the catalyzed reaction. <i>Chemico-Biological Interactions</i> , 2011, 191, 137-146.	4.0	20
9	Modulation of the reactivity of the essential cysteine residue of betaine aldehyde dehydrogenase from <i>Pseudomonas aeruginosa</i> . <i>Biochemical Journal</i> , 2002, 361, 577-585.	3.7	19
10	Novel NADPH-cysteine covalent adduct found in the active site of an aldehyde dehydrogenase. <i>Biochemical Journal</i> , 2011, 439, 443-455.	3.7	19
11	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. <i>BMC Plant Biology</i> , 2014, 14, 149.	3.6	19
12	Steady-state kinetic mechanism of the NADP ⁺ - and NAD ⁺ -dependent reactions catalysed by betaine aldehyde dehydrogenase from <i>Pseudomonas aeruginosa</i> . <i>Biochemical Journal</i> , 2000, 352, 675.	3.7	17
13	Site-directed mutagenesis and homology modeling indicate an important role of cysteine 439 in the stability of betaine aldehyde dehydrogenase from <i>Pseudomonas aeruginosa</i> . <i>Biochimie</i> , 2005, 87, 1056-1064.	2.6	15
14	Amino acid residues that affect the basicity of the catalytic glutamate of the hydrolytic aldehyde dehydrogenases. <i>Chemico-Biological Interactions</i> , 2015, 234, 45-58.	4.0	12
15	Residues that influence coenzyme preference in the aldehyde dehydrogenases. <i>Chemico-Biological Interactions</i> , 2015, 234, 59-74.	4.0	12
16	Mechanisms of protection against irreversible oxidation of the catalytic cysteine of ALDH enzymes: Possible role of vicinal cysteines. <i>Chemico-Biological Interactions</i> , 2017, 276, 52-64.	4.0	11
17	Identification of the allosteric site for neutral amino acids in the maize C4 isozyme of phosphoenolpyruvate carboxylase: The critical role of Ser-100. <i>Journal of Biological Chemistry</i> , 2018, 293, 9945-9957.	3.4	11
18	Ligand-induced conformational changes of betaine aldehyde dehydrogenase from <i>Pseudomonas aeruginosa</i> and <i>Amaranthus hypochondriacus</i> L. leaves affecting the reactivity of the catalytic thiol. <i>Chemico-Biological Interactions</i> , 2003, 143-144, 129-137.	4.0	9

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19	Modulation of the reactivity of the essential cysteine residue of betaine aldehyde dehydrogenase from <i>Pseudomonas aeruginosa</i> . <i>Biochemical Journal</i> , 2002, 361, 577.	3.7	8
20	Potential monovalent cation-binding sites in aldehyde dehydrogenases. <i>Chemico-Biological Interactions</i> , 2013, 202, 41-50.	4.0	7
21	Interaction of N-succinyl diaminopimelate desuccinylase with orphenadrine and disulfiram. <i>Journal of Molecular Structure</i> , 2020, 1222, 128928.	3.6	7
22	Reaction of the catalytic cysteine of betaine aldehyde dehydrogenase from <i>Pseudomonas aeruginosa</i> with arsenite-BAL and phenylarsine oxide. <i>Chemico-Biological Interactions</i> , 2009, 178, 64-69.	4.0	5
23	High resolution crystal structure of NaTrxh from <i>Nicotiana glauca</i> and its interaction with the S-RNase. <i>Journal of Structural Biology</i> , 2020, 212, 107578.	2.8	5
24	Structural and biochemical evidence of the glucose 6-phosphate-allosteric site of maize C4-phosphoenolpyruvate carboxylase: its importance in the overall enzyme kinetics. <i>Biochemical Journal</i> , 2020, 477, 2095-2114.	3.7	5
25	Catalytic contribution of threonine 244 in human ALDH2. <i>Chemico-Biological Interactions</i> , 2013, 202, 32-40.	4.0	4