

VÃ-ctor Castro

List of Publications by Year in descending order

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papers

204
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1163117

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docs citations

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#	ARTICLE	IF	CITATIONS
1	Single-Nucleotide Polymorphisms (SNP) Mining and Their Effect on the Tridimensional Protein Structure Prediction in a Set of Immunity-Related Expressed Sequence Tags (EST) in Atlantic Salmon (<i>Salmo salar</i>). <i>Frontiers in Genetics</i> , 2019, 10, 1406.	2.3	28
2	Crystal Structure, SAXS and Kinetic Mechanism of Hyperthermophilic ADP-Dependent Glucokinase from <i>Thermococcus litoralis</i> Reveal a Conserved Mechanism for Catalysis. <i>PLoS ONE</i> , 2013, 8, e66687.	2.5	26
3	Reconstructed ancestral enzymes reveal that negative selection drove the evolution of substrate specificity in ADP-dependent kinases. <i>Journal of Biological Chemistry</i> , 2017, 292, 15598-15610.	3.4	22
4	Bifunctional ADP-dependent phosphofructokinase/glucokinase activity in the order <i>Methanococcales</i> – biochemical characterization of the mesophilic enzyme from <i>Methanococcus Amaripaludis</i> . <i>FEBS Journal</i> , 2014, 281, 2017-2029.	4.7	20
5	Expression and localization of an agmatinase-like protein in the rat brain. <i>Histochemistry and Cell Biology</i> , 2010, 134, 137-144.	1.7	16
6	ADP-dependent phosphofructokinases from the archaeal order Methanosarcinales display redundant glucokinase activity. <i>Archives of Biochemistry and Biophysics</i> , 2017, 633, 85-92.	3.0	14
7	Emergence of pyridoxal phosphorylation through a promiscuous ancestor during the evolution of hydroxymethyl pyrimidine kinases. <i>FEBS Letters</i> , 2014, 588, 3068-3073.	2.8	9
8	Evidence for an inhibitory LIM domain in a rat brain agmatinase-like protein. <i>Archives of Biochemistry and Biophysics</i> , 2011, 512, 107-110.	3.0	8
9	Protein topology determines substrate-binding mechanism in homologous enzymes. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 2869-2878.	2.4	7
10	ADP-Dependent Kinases From the Archaeal Order Methanosarcinales Adapt to Salt by a Non-canonical Evolutionarily Conserved Strategy. <i>Frontiers in Microbiology</i> , 2018, 9, 1305.	3.5	7
11	Tuning of Conformational Dynamics Through Evolution-Based Design Modulates the Catalytic Adaptability of an Extremophilic Kinase. <i>ACS Catalysis</i> , 2020, 10, 10847-10857.	11.2	7
12	Crystal Structure of <i>Escherichia coli</i> Agmatinase: Catalytic Mechanism and Residues Relevant for Substrate Specificity. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4769.	4.1	7
13	Free radicals derived from $\hat{3}$ -radiolysis of water and AAPH thermolysis mediate oxidative crosslinking of eGFP involving Tyr-Tyr and Tyr-Cys bonds: the fluorescence of the protein is conserved only towards peroxy radicals. <i>Free Radical Biology and Medicine</i> , 2020, 150, 40-52.	2.9	6
14	Characterization of hydroxymethylpyrimidine phosphate kinase from mesophilic and thermophilic bacteria and structural insights into their differential thermal stability. <i>Archives of Biochemistry and Biophysics</i> , 2020, 688, 108389.	3.0	6
15	Structural and functional analysis of the ASM p.Ala359Asp mutant that causes acid sphingomyelinase deficiency. <i>Biochemical and Biophysical Research Communications</i> , 2016, 479, 496-501.	2.1	5
16	Structure of an ancestral ADP-dependent kinase with fructose-6P reveals key residues for binding, catalysis, and ligand-induced conformational changes. <i>Journal of Biological Chemistry</i> , 2021, 296, 100219.	3.4	4
17	Crystal structure and molecular dynamics simulations of a promiscuous ancestor reveal residues and an epistatic interaction involved in substrate binding and catalysis in the ATP-dependent vitamin kinase family members. <i>Protein Science</i> , 2021, 30, 842-854.	7.6	3
18	Unusual dimerization of a Bc Csp mutant leads to reduced conformational dynamics. <i>FEBS Journal</i> , 2017, 284, 1882-1896.	4.7	2

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19	The Emergence of New Catalytic Abilities in an Endoxylanase from Family GH10 by Removing an Intrinsically Disordered Region. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2315.	4.1	2
20	Characterisation of kinetics, substrate inhibition and product activation by <sc>AMP</sc> of bifunctional <sc>ADP</sc>-dependent glucokinase/phosphofructokinase from <i>Methanococcus maripaludis</i>. <i>FEBS Journal</i> , 2022, 289, 7519-7536.	4.7	1
21	Structural and Kinetic Insights Into the Molecular Basis of Salt Tolerance of the Short-Chain Glucose-6-Phosphate Dehydrogenase From <i>Haloferax volcanii</i> . <i>Frontiers in Microbiology</i> , 2021, 12, 730429.	3.5	0