

Humberto M Pereira

List of Publications by Year in descending order

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61
papers

1,146
citations

430874

18
h-index

454955

30
g-index

64
all docs

64
docs citations

64
times ranked

1833
citing authors

#	ARTICLE	IF	CITATIONS
1	Mitochondrial localization and structure-based phosphate activation mechanism of Glutaminase C with implications for cancer metabolism. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 1092-1097.	7.1	225
2	Collagen/collagenase interaction: Does the enzyme mimic the conformation of its own substrate?. FASEB Journal, 1996, 10, 927-930.	0.5	59
3	The Structural Biology of Septins and Their Filaments: An Update. Frontiers in Cell and Developmental Biology, 2021, 9, 765085.	3.7	41
4	The structure and properties of septin 3: a possible missing link in septin filament formation. Biochemical Journal, 2013, 450, 95-105.	3.7	39
5	Crystal structure of an antifungal osmotin-like protein from Calotropis procera and its effects on Fusarium solani spores, as revealed by atomic force microscopy: Insights into the mechanism of action. Phytochemistry, 2015, 119, 5-18.	2.9	35
6	Structures for the Potential Drug Target Purine Nucleoside Phosphorylase from Schistosoma mansoni Causal Agent of Schistosomiasis. Journal of Molecular Biology, 2005, 353, 584-599.	4.2	32
7	Crystal Structure of a Schistosoma mansoni Septin Reveals the Phenomenon of Strand Slippage in Septins Dependent on the Nature of the Bound Nucleotide. Journal of Biological Chemistry, 2014, 289, 7799-7811.	3.4	32
8	Dissecting the Structure, Thermodynamic Stability, and Aggregation Properties of the A25T Transthyretin (A25T-TTR) Variant Involved in Leptomenigeal Amyloidosis: Identifying Protein Partners That Co-Aggregate during A25T-TTR Fibrillogenesis in Cerebrospinal Fluid. Biochemistry, 2011, 50, 11070-11083.	2.5	31
9	Expression and efficient secretion of a functional chitinase from Chromobacterium violaceum in Escherichia coli. BMC Biotechnology, 2013, 13, 46.	3.3	30
10	Structural basis for selective inhibition of purine nucleoside phosphorylase from Schistosoma mansoni: Kinetic and structural studies. Bioorganic and Medicinal Chemistry, 2010, 18, 1421-1427.	3.0	29
11	Production in Pichia pastoris, antifungal activity and crystal structure of a class I chitinase from cowpea (Vigna unguiculata): Insights into sugar binding mode and hydrolytic action. Biochimie, 2017, 135, 89-103.	2.6	28
12	A complete compendium of crystal structures for the human SEPT3 subgroup reveals functional plasticity at a specific septin interface. IUCr, 2020, 7, 462-479.	2.2	28
13	The Crystal Complex of Phosphofructokinase-2 of Escherichia coli with Fructose-6-phosphate. Journal of Biological Chemistry, 2011, 286, 5774-5783.	3.4	26
14	An atomic model for the human septin hexamer by cryo-EM. Journal of Molecular Biology, 2021, 433, 167096.	4.2	26
15	Cloning, expression and preliminary crystallographic studies of the potential drug target purine nucleoside phosphorylase from Schistosoma mansoni. Acta Crystallographica Section D: Biological Crystallography, 2003, 59, 1096-1099.	2.5	25
16	X-ray crystallography and NMR studies of domain-swapped canecystatin. FEBS Journal, 2013, 280, 1028-1038.	4.7	25
17	Molecular Recognition at Septin Interfaces: The Switches Hold the Key. Journal of Molecular Biology, 2020, 432, 5784-5801.	4.2	24
18	Promiscuous interactions of human septins: The GTP binding domain of SEPT7 forms filaments within the crystal. FEBS Letters, 2011, 585, 3868-3873.	2.8	22

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19	Expression in <i>Escherichia coli</i> of cysteine protease inhibitors from cowpea (<i>Vigna unguiculata</i>): The crystal structure of a single-domain cystatin gives insights on its thermal and pH stability. <i>International Journal of Biological Macromolecules</i> , 2017, 102, 29-41.	7.5	22
20	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
21	Adenosine binding to low-molecular-weight purine nucleoside phosphorylase: the structural basis for recognition based on its complex with the enzyme from <i>Schistosoma mansoni</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2010, 66, 73-79.	2.5	20
22	Crystal structure of <i>Schistosoma</i> purine nucleoside phosphorylase complexed with a novel monocyclic inhibitor. <i>Acta Tropica</i> , 2010, 114, 97-102.	2.0	19
23	Structural role of the active-site metal in the conformation of <i>Trypanosoma brucei</i> phosphoglycerate mutase. <i>FEBS Journal</i> , 2012, 279, 2012-2021.	4.7	18
24	Oriental Ambiguity in Septin Coiled Coils and its Structural Basis. <i>Journal of Molecular Biology</i> , 2021, 433, 166889.	4.2	18
25	Spectroscopic and calorimetric assays reveal dependence on dCTP and two metals (Zn ²⁺ Mg ²⁺) for enzymatic activity of <i>Schistosoma mansoni</i> deoxycytidylate (dCMP) deaminase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2017, 1865, 1326-1335.	2.3	17
26	A new topology of ACBP from <i>Moniliophthora perniciosa</i> . <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2010, 1804, 115-123.	2.3	16
27	Studying the phosphoryl transfer mechanism of the <i>E. coli</i> phosphofructokinase-2: from X-ray structure to quantum mechanics/molecular mechanics simulations. <i>Chemical Science</i> , 2019, 10, 2882-2892.	7.4	15
28	Crystal structure of the human Tip41 orthologue, TIPRL, reveals a novel fold and a binding site for the PP2Ac C-terminus. <i>Scientific Reports</i> , 2016, 6, 30813.	3.3	14
29	Structural basis for the design of selective inhibitors for <i>Schistosoma mansoni</i> dihydroorotate dehydrogenase. <i>Biochimie</i> , 2019, 158, 180-190.	2.6	14
30	Structural and kinetic studies of <i>Schistosoma mansoni</i> adenylate kinases. <i>Molecular and Biochemical Parasitology</i> , 2012, 185, 157-160.	1.1	13
31	Adenosine kinase from <i>Schistosoma mansoni</i> : structural basis for the differential incorporation of nucleoside analogues. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013, 69, 126-136.	2.5	13
32	Structural and kinetic analysis of <i>Schistosoma mansoni</i> Adenylosuccinate Lyase (Sm ADSL). <i>Molecular and Biochemical Parasitology</i> , 2017, 214, 27-35.	1.1	13
33	The structure of the giant haemoglobin from <i>Glossoscolex paulistus</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015, 71, 1257-1271.	2.5	12
34	Filaments and fingers: Novel structural aspects of the single septin from <i>Chlamydomonas reinhardtii</i> . <i>Journal of Biological Chemistry</i> , 2017, 292, 10899-10911.	3.4	12
35	Purine nucleoside phosphorylase from <i>Schistosoma mansoni</i> in complex with ribose-1-phosphate. <i>Journal of Synchrotron Radiation</i> , 2011, 18, 62-65.	2.4	11
36	A Ribokinase Family Conserved Monovalent Cation Binding Site Enhances the MgATP-induced Inhibition in <i>E. coli</i> Phosphofructokinase-2. <i>Biophysical Journal</i> , 2013, 105, 185-193.	0.5	11

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37	Crystal structure of calf spleen purine nucleoside phosphorylase complexed to a novel purine analogue. <i>FEBS Letters</i> , 2007, 581, 5082-5086.	2.8	10
38	Enzyme kinetics, structural analysis and molecular modeling studies on a series of <i>Schistosoma mansoni</i> PNP inhibitors. <i>Journal of the Brazilian Chemical Society</i> , 2011, 22, 583-591.	0.6	10
39	Insights into Phosphate Cooperativity and Influence of Substrate Modifications on Binding and Catalysis of Hexameric Purine Nucleoside Phosphorylases. <i>PLoS ONE</i> , 2012, 7, e44282.	2.5	10
40	Analysis of two <i>Schistosoma mansoni</i> uridine phosphorylases isoforms suggests the emergence of a protein with a non-canonical function. <i>Biochimie</i> , 2016, 125, 12-22.	2.6	9
41	GMOs: building the future on the basis of past experience. <i>Anais Da Academia Brasileira De Ciencias</i> , 2006, 78, 667-686.	0.8	8
42	Structure and kinetics assays of recombinant <i>Schistosoma mansoni</i> dihydrofolate reductase. <i>Acta Tropica</i> , 2017, 170, 190-196.	2.0	7
43	The molecular structure of <i>Schistosoma mansoni</i> PNP isoform 2 provides insights into the nucleoside selectivity of PNPs. <i>PLoS ONE</i> , 2018, 13, e0203532.	2.5	7
44	Crystal Structure of <i>Schistosoma mansoni</i> Adenosine Phosphorylase/5- TM -Methylthioadenosine Phosphorylase and Its Importance on Adenosine Salvage Pathway. <i>PLoS Neglected Tropical Diseases</i> , 2016, 10, e0005178.	3.0	6
45	Structural Characterization of L-Galactose Dehydrogenase: An Essential Enzyme for Vitamin C Biosynthesis. <i>Plant and Cell Physiology</i> , 2022, 63, 1140-1155.	3.1	6
46	Trypanosomatid selenophosphate synthetase structure, function and interaction with selenocysteine lyase. <i>PLoS Neglected Tropical Diseases</i> , 2020, 14, e0008091.	3.0	5
47	<i>Schistosoma mansoni</i> Purine and Pyrimidine Biosynthesis: Structures and Kinetic Experiments in the Search for the Best Therapeutic Target. <i>Current Pharmaceutical Design</i> , 2018, 23, 6967-6983.	1.9	5
48	Protein preparation, crystallization and preliminary X-ray analysis of <i>Trypanosoma cruzi</i> nucleoside diphosphate kinase 1. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2010, 66, 862-865.	0.7	4
49	Crystallization and preliminary X-ray diffraction analysis of selenophosphate synthetases from <i>Trypanosoma brucei</i> and <i>Leishmania major</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2013, 69, 864-867.	0.7	4
50	In vitro and in vivo characterization of the multiple isoforms of <i>Schistosoma mansoni</i> hypoxanthine-guanine phosphoribosyltransferases. <i>Molecular and Biochemical Parasitology</i> , 2019, 229, 24-34.	1.1	4
51	New structural insights into anomeric carbohydrate recognition by frutalin: an α -D-galactose-binding lectin from breadfruit seeds. <i>Biochemical Journal</i> , 2019, 476, 101-113.	3.7	4
52	Crystallization and preliminary X-ray diffraction studies of frutalin, an α -D-galactose-specific lectin from <i>Artocarpus incisa</i> seeds. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2015, 71, 1282-1285.	0.8	3
53	Characterization of a <i>Schistosoma mansoni</i> NDPK expressed in sexual and digestive organs. <i>Molecular and Biochemical Parasitology</i> , 2019, 231, 111187.	1.1	2
54	Crystallographic approach to fragment-based hit discovery against <i>Schistosoma mansoni</i> purine nucleoside phosphorylase. <i>Biochemical Journal</i> , 2021, 478, 3655-3670.	3.7	1

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55	Characterization of Schistosoma mansoni Dihydrofolate Reductase (DHFR). Methods in Molecular Biology, 2020, 2151, 159-172.	0.9	1
56	Crystal structure of the Cys-NO modified YopH tyrosine phosphatase. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2022, 1870, 140754.	2.3	1
57	Identification of potential inhibitors of Schistosoma mansoni purine nucleoside phosphorylase from neolignan compounds using molecular modelling approaches. Journal of Biomolecular Structure and Dynamics, 2021, , 1-13.	3.5	0
58	Title is missing!. , 2020, 14, e0008091.		0
59	Title is missing!. , 2020, 14, e0008091.		0
60	Title is missing!. , 2020, 14, e0008091.		0
61	Title is missing!. , 2020, 14, e0008091.		0