Luis G Brieba

List of Publications by Year
in descending order

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58	1,096	471509	454955
papers	citations	17 h-index	30 g-index

59	59	59	1118
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structure of an open conformation of T7 DNA polymerase reveals novel structural features regulating primer-template stabilization at the polymerization active site. Biochemical Journal, 2021, 478, 2665-2679.	3.7	7
2	Triosephosphate isomerase as a therapeutic target against trichomoniasis. Molecular and Biochemical Parasitology, 2021, 246, 111413.	1.1	9
3	Arabidopsis thaliana PrimPol is a primase and lesion bypass DNA polymerase with the biochemical characteristics to cope with DNA damage in the nucleus, mitochondria, and chloroplast. Scientific Reports, 2021, 11, 20582.	3.3	4
4	Plant Organellar DNA Polymerases Evolved Multifunctionality through the Acquisition of Novel Amino Acid Insertions. Genes, 2020, 11, 1370.	2.4	4
5	Solution structure of the inhibitor of cysteine proteases 1 from Entamoeba histolytica reveals a possible auto regulatory mechanism. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2020, 1868, 140512.	2.3	1
6	Developing a new drug against trichomoniasis, new inhibitory compounds of the protein triosephosphate isomerase. Parasitology International, 2020, 76, 102086.	1.3	16
7	Crystal structures of Triosephosphate Isomerases from Taenia solium and Schistosoma mansoni provide insights for vaccine rationale and drug design against helminth parasites. PLoS Neglected Tropical Diseases, 2020, 14, e0007815.	3.0	6
8	Modeling of pathogenic variants of mitochondrial DNA polymerase: insight into the replication defects and implication for human disease. Biochimica Et Biophysica Acta - General Subjects, 2020, 1864, 129608.	2.4	3
9	Plant organellar DNA polymerases bypass thymine glycol using two conserved lysine residues. Biochemical Journal, 2020, 477, 1049-1059.	3.7	1
10	Crystallographic Studies of Triosephosphate Isomerase from Schistosoma mansoni. Methods in Molecular Biology, 2020, 2151, 211-218.	0.9	0
11	Amino and carboxy-terminal extensions of yeast mitochondrial DNA polymerase assemble both the polymerization and exonuclease active sites. Mitochondrion, 2019, 49, 166-177.	3.4	5
12	Arabidopsis thaliana organelles mimic the T7 phage DNA replisome with specific interactions between Twinkle protein and DNA polymerases Pol1A and Pol1B. BMC Plant Biology, 2019, 19, 241.	3.6	17
13	Structural basis for the modulation of plant cytosolic triosephosphate isomerase activity by mimicry of redoxâ€based modifications. Plant Journal, 2019, 99, 950-964.	5.7	9
14	Evolution of Base Excision Repair in Entamoeba histolytica is shaped by gene loss, gene duplication, and lateral gene transfer. DNA Repair, 2019, 76, 76-88.	2.8	10
15	Plant organellar DNA polymerases repair double-stranded breaks by microhomology-mediated end-joining. Nucleic Acids Research, 2019, 47, 3028-3044.	14.5	35
16	Structureâ€“Function Analysis Reveals the Singularity of Plant Mitochondrial DNA Replication Components: A Mosaic and Redundant System. Plants, 2019, 8, 533.	3.5	11
17	Identification of a unique insertion in plant organellar DNA polymerases responsible for 5â€²-dRP lyase and strand-displacement activities: Implications for Base Excision Repair. DNA Repair, 2018, 65, 1-10.	2.8	21
18	Mimicking a p53â€MDM2 interaction based on a stable immunoglobulinâ€like domain scaffold. Proteins: Structure, Function and Bioinformatics, 2018, 86, 802-812.	2.6	1

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19	De novo assembly and transcriptome characterization of the freshwater prawn Palaemonetes argentinus: Implications for a detoxification response. Marine Genomics, 2018, 37, 74-81.	1.1	6
20	Cover Image, Volume 86, Issue 7. Proteins: Structure, Function and Bioinformatics, 2018, 86, C1-C1.	2.6	0
21	Structural Basis for the Limited Response to Oxidative and Thiol-Conjugating Agents by Triosephosphate Isomerase From the Photosynthetic Bacteria Synechocystis. Frontiers in Molecular Biosciences, 2018, 5, 103.	3.5	5
22	Self-Association of Enolase from Trichomonas vaginalis. Monomers, Dimers, and Octamers Coexist in Solution. ACS Omega, 2018, 3, 17871-17880.	3.5	2
23	Plant organellar DNA polymerases paralogs exhibit dissimilar nucleotide incorporation fidelity. FEBS Journal, 2018, 285, 4005-4018.	4.7	22
24	The Sole DNA Ligase in Entamoeba histolytica Is a High-Fidelity DNA Ligase Involved in DNA Damage Repair. Frontiers in Cellular and Infection Microbiology, 2018, 8, 214.	3.9	8
25	Proliferating cell nuclear antigen restores the enzymatic activity of a <scp>DNA</scp> ligase I deficient in <scp>DNA</scp> binding. FEBS Open Bio, 2017, 7, 659-674.	2.3	15
26	Plant organellar DNA primase-helicase synthesizes RNA primers for organellar DNA polymerases using a unique recognition sequence. Nucleic Acids Research, 2017, 45, 10764-10774.	14.5	18
27	A competent catalytic active site is necessary for substrate induced dimer assembly in triosephosphate isomerase. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2017, 1865, 1423-1432.	2.3	7
28	Plant organellar DNA polymerases are replicative and translesion DNA synthesis polymerases. Nucleic Acids Research, 2017, 45, 10751-10763.	14.5	34
29	Cysteine Proteases Inhibitors with Immunoglobulin-Like Fold in Protozoan Parasites and their Role in Pathogenesis. Current Protein and Peptide Science, 2017, 18, 1035-1042.	1.4	3
30	Structural Basis for Redox Regulation of Cytoplasmic and Chloroplastic Triosephosphate Isomerases from Arabidopsis thaliana. Frontiers in Plant Science, 2016, 7, 1817.	3.6	23
31	Dispensability of the [4Feâ€4S] cluster in novel homologues of adenine glycosylase MutY. FEBS Journal, 2016, 283, 521-540.	4.7	18
32	The Glycolytic Enzyme Triosephosphate Isomerase of Trichomonas vaginalis Is a Surface-Associated Protein Induced by Glucose That Functions as a Laminin- and Fibronectin-Binding Protein. Infection and Immunity, 2016, 84, 2878-2894.	2.2	33
33	Structural insights from a novel invertebrate triosephosphate isomerase from Litopenaeus vannamei. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2016, 1864, 1696-1706.	2.3	18
34	Substrate-Induced Dimerization of Engineered Monomeric Variants of Triosephosphate Isomerase from Trichomonas vaginalis. PLoS ONE, 2015, 10, e0141747.	2.5	18
35	The thumb subdomain of yeast mitochondrial RNA polymerase is involved in processivity, transcript fidelity and mitochondrial transcription factor binding. RNA Biology, 2015, 12, 514-524.	3.1	10
36	Yeast mitochondrial RNA polymerase primes mitochondrial DNA polymerase at origins of replication and promoter sequences. Mitochondrion, 2015, 24, 22-31.	3.4	16

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37	A novel viral thymidylate kinase with dual kinase activity. Journal of Bioenergetics and Biomembranes, 2015, 47, 431-440.	2.3	2
38	Structural and thermodynamic folding characterization of triosephosphate isomerases from Trichomonas vaginalis reveals the role of destabilizing mutations following gene duplication. Proteins: Structure, Function and Bioinformatics, 2014, 82, 22-33.	2.6	15
39	Novel transcriptome assembly and improved annotation of the whiteleg shrimp (Litopenaeus) Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.3	89
40	Crystal Structure of the Shrimp Proliferating Cell Nuclear Antigen: Structural Complementarity with WSSV DNA Polymerase PIP-Box. PLoS ONE, 2014, 9, e94369.	2.5	11
41	Crystal structure of shrimp arginine kinase in binary complex with arginineâ€"a molecular view of the phosphagen precursor binding to the enzyme. Journal of Bioenergetics and Biomembranes, 2013, 45, 511-518.	2.3	22
42	Conservation of Promoter Melting Mechanisms in Divergent Regions of the Single-Subunit RNA Polymerases. Biochemistry, 2012, 51, 3901-3910.	2.5	8
43	Crystallization and X-ray diffraction studies of crustacean proliferating cell nuclear antigen. Acta Crystallographica Section F: Structural Biology Communications, 2012, 68, 1367-1370.	0.7	0
44	Cellular and biochemical characterization of two closely related triosephosphate isomerases fromTrichomonas vaginalis. Parasitology, 2012, 139, 1729-1738.	1.5	18
45	A Transposon-Derived DNA Polymerase from Entamoeba histolytica Displays Intrinsic Strand Displacement, Processivity and Lesion Bypass. PLoS ONE, 2012, 7, e49964.	2.5	18
46	Crystallization and X-ray diffraction studies of arginine kinase from the white Pacific shrimpLitopenaeus vannamei. Acta Crystallographica Section F: Structural Biology Communications, 2012, 68, 783-785.	0.7	10
47	Crystal structure of the cysteine protease inhibitor 2 from Entamoeba histolytica: Functional convergence of a common protein fold. Gene, 2011, 471, 45-52.	2.2	15
48	Molecular modeling and expression of the Litopenaeus vannamei proliferating cell nuclear antigen (PCNA) after white spot syndrome virus shrimp infection. Results in Immunology, 2011, 1, 24-30.	2.2	6
49	Structure and biochemical characterization of proliferating cellular nuclear antigen from a parasitic protozoon. Acta Crystallographica Section D: Biological Crystallography, 2011, 67, 497-505.	2.5	22
50	A Nuclear Family A DNA Polymerase from Entamoeba histolytica Bypasses Thymine Glycol. PLoS Neglected Tropical Diseases, 2010, 4, e786.	3.0	14
51	A Lysine Residue in the Fingers Subdomain of T7 DNA Polymerase Modulates the Miscoding Potential of 8-Oxo-7,8-Dihydroguanosine. Structure, 2005, 13, 1653-1659.	3.3	37
52	Structural basis for the dual coding potential of 8-oxoguanosine by a high-fidelity DNA polymerase. EMBO Journal, 2004, 23, 3452-3461.	7.8	200
53	Discontinuous movement and conformational change during pausing and termination by T7 RNA polymerase. EMBO Journal, 2003, 22, 6483-6493.	7.8	22
54	Role of T7 RNA Polymerase His784 in Start Site Selection and Initial Transcriptionâ€. Biochemistry, 2002, 41, 5144-5149.	2.5	18

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55	The T7 RNA Polymerase Intercalating Hairpin Is Important for Promoter Opening during Initiation but Not for RNA Displacement or Transcription Bubble Stability during Elongation. Biochemistry, 2001, 40, 3882-3890.	2.5	35
56	Scanning Mutagenesis Reveals Roles for Helix N of the Bacteriophage T7 RNA Polymerase Thumb Subdomain in Transcription Complex Stability, Pausing, and Termination. Journal of Biological Chemistry, 2001, 276, 10306-10313.	3.4	23
57	Roles of Histidine 784 and Tyrosine 639 in Ribose Discrimination by T7 RNA Polymeraseâ€. Biochemistry, 2000, 39, 919-923.	2.5	39
58	Characterization of structural features important for T7 RNAP elongation complex stability reveals competing complex conformations and a role for the non-template strand in RNA displacement. Journal of Molecular Biology, 1999, 290, 411-431.	4.2	56