

Santiago Ramon-Maiques

List of Publications by Year in descending order

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42
papers

2,050
citations

394421

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51
docs citations

51
times ranked

2391
citing authors

#	ARTICLE	IF	CITATIONS
1	RAG2 PHD finger couples histone H3 lysine 4 trimethylation with V(D)J recombination. <i>Nature</i> , 2007, 450, 1106-1110.	27.8	429
2	Structure and mechanism of human DNA polymerase β . <i>Nature</i> , 2010, 465, 1044-1048.	27.8	300
3	The plant homeodomain finger of RAG2 recognizes histone H3 methylated at both lysine-4 and arginine-2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 18993-18998.	7.1	186
4	Structure of the MutL C-terminal domain: a model of intact MutL and its roles in mismatch repair. <i>EMBO Journal</i> , 2004, 23, 4134-4145.	7.8	163
5	Structure of Acetylglutamate Kinase, a Key Enzyme for Arginine Biosynthesis and a Prototype for the Amino Acid Kinase Enzyme Family, during Catalysis. <i>Structure</i> , 2002, 10, 329-342.	3.3	126
6	Gain-of-function mutations in DNMT3A in patients with paraganglioma. <i>Genetics in Medicine</i> , 2018, 20, 1644-1651.	2.4	73
7	Structural Bases of Feed-back Control of Arginine Biosynthesis, Revealed by the Structures of Two Hexameric N-Acetylglutamate Kinases, from <i>Thermotoga maritima</i> and <i>Pseudomonas aeruginosa</i> . <i>Journal of Molecular Biology</i> , 2006, 356, 695-713.	4.2	63
8	Structure, Functional Characterization, and Evolution of the Dihydroorotase Domain of Human CAD. <i>Structure</i> , 2014, 22, 185-198.	3.3	60
9	The 1.5 Å... resolution crystal structure of the carbamate kinase-like carbamoyl phosphate synthetase from the hyperthermophilic archaeon <i>Pyrococcus furiosus</i> , bound to ADP, confirms that this thermostable enzyme is a carbamate kinase, and provides insight into substrate binding and stability in carbamate kinases. 1 Edited by R. Huber. <i>Journal of Molecular Biology</i> , 2000, 299, 463-476.	4.2	49
10	Initial Stages of V(D)J Recombination: The Organization of RAG1/2 and RSS DNA in the Postcleavage Complex. <i>Molecular Cell</i> , 2009, 35, 217-227.	9.7	44
11	Site-directed Mutagenesis of <i>Escherichia coli</i> Acetylglutamate Kinase and Aspartokinase III Probes the Catalytic and Substrate-binding Mechanisms of these Amino Acid Kinase Family Enzymes and Allows Three-dimensional Modelling of Aspartokinase. <i>Journal of Molecular Biology</i> , 2003, 334, 459-476.	4.2	43
12	The Course of Phosphorus in the Reaction of N-Acetyl-L-glutamate Kinase, Determined from the Structures of Crystalline Complexes, Including a Complex with an AlF ₄ ⁻ Transition State Mimic. <i>Journal of Molecular Biology</i> , 2003, 331, 231-244.	4.2	40
13	MuB is an AAA+ ATPase that forms helical filaments to control target selection for DNA transposition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E2441-50.	7.1	40
14	Structural Insight into the Core of CAD, the Multifunctional Protein Leading De Novo Pyrimidine Biosynthesis. <i>Structure</i> , 2017, 25, 912-923.e5.	3.3	39
15	The PHD Finger of Human UHRF1 Reveals a New Subgroup of Unmethylated Histone H3 Tail Readers. <i>PLoS ONE</i> , 2011, 6, e27599.	2.5	36
16	The Carbamoyl-phosphate Synthetase of <i>Pyrococcus furiosus</i> Is Enzymologically and Structurally a Carbamate Kinase. <i>Journal of Biological Chemistry</i> , 1999, 274, 16295-16303.	3.4	29
17	Structure and Functional Characterization of Human Aspartate Transcarbamoylase, the Target of the Anti-tumoral Drug PALA. <i>Structure</i> , 2016, 24, 1081-1094.	3.3	28
18	CAD, A Multienzymatic Protein at the Head of de Novo Pyrimidine Biosynthesis. <i>Sub-Cellular Biochemistry</i> , 2019, 93, 505-538.	2.4	27

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19	Site-directed mutagenesis of the regulatory domain of escherichia coli carbamoyl phosphate synthetase identifies crucial residues for allosteric regulation and for transduction of the regulatory signals 1 Edited by A. R. Fersht. Journal of Molecular Biology, 2000, 299, 979-991.	4.2	22
20	Deciphering <sc>CAD</sc>: Structure and function of a megaenzymatic pyrimidine factory in health and disease. Protein Science, 2021, 30, 1995-2008.	7.6	21
21	Substrate Binding and Catalysis in Carbamate Kinase Ascertained by Crystallographic and Site-Directed Mutagenesis Studies: Movements and Significance of a Unique Globular Subdomain of This Key Enzyme for Fermentative ATP Production in Bacteria. Journal of Molecular Biology, 2010, 397, 1261-1275.	4.2	19
22	Structural basis for the dimerization of Gemin5 and its role in protein recruitment and translation control. Nucleic Acids Research, 2020, 48, 788-801.	14.5	19
23	Characterization of the catalytic flexible loop in the dihydroorotase domain of the human multi-enzymatic protein CAD. Journal of Biological Chemistry, 2018, 293, 18903-18913.	3.4	18
24	Cell-based analysis of CAD variants identifies individuals likely to benefit from uridine therapy. Genetics in Medicine, 2020, 22, 1598-1605.	2.4	18
25	Mechanisms of feedback inhibition and sequential firing of active sites in plant aspartate transcarbamoylase. Nature Communications, 2021, 12, 947.	12.8	17
26	Afatinib Exerts Immunomodulatory Effects by Targeting the Pyrimidine Biosynthesis Enzyme CAD. Cancer Research, 2021, 81, 3270-3282.	0.9	16
27	Two Crystal Structures of Escherichia coli N-Acetyl-L-Glutamate Kinase Demonstrate the Cycling between Open and Closed Conformations. Journal of Molecular Biology, 2010, 399, 476-490.	4.2	15
28	Expression, purification, crystallization and preliminary X-ray diffraction analysis of the dihydroorotase domain of human CAD. Acta Crystallographica Section F: Structural Biology Communications, 2012, 68, 1341-1345.	0.7	12
29	Expression, purification, crystallization and preliminary X-ray diffraction analysis of the aspartate transcarbamoylase domain of human CAD. Acta Crystallographica Section F: Structural Biology Communications, 2013, 69, 1425-1430.	0.7	12
30	The GATA3 X308_Splice breast cancer mutation is a hormone context-dependent oncogenic driver. Oncogene, 2020, 39, 5455-5467.	5.9	12
31	N-Acetyl-L-glutamate kinase from Escherichia coli: cloning of the gene, purification and crystallization of the recombinant enzyme and preliminary X-ray analysis of the free and ligand-bound forms. Acta Crystallographica Section D: Biological Crystallography, 1999, 55, 1350-1352.	2.5	10
32	Molecular Physiology of Phosphoryl Group Transfer from Carbamoyl Phosphate by a Hyperthermophilic Enzyme at Low Temperature. Biochemistry, 2002, 41, 3916-3924.	2.5	9
33	[21] Carbamoyl phosphate synthesis: Carbamate kinase from Pyrococcus furiosus. Methods in Enzymology, 2001, 331, 236-247.	1.0	8
34	Towards structural understanding of feedback control of arginine biosynthesis: cloning and expression of the gene for the arginine-inhibited N-acetyl-L-glutamate kinase from Pseudomonas aeruginosa, purification and crystallization of the recombinant enzyme and preliminary X-ray studies. Acta Crystallographica Section D: Biological Crystallography, 2002, 58, 1045-1047.	2.5	7
35	Functional and structural deficiencies of Gemin5 variants associated with neurological disorders. Life Science Alliance, 2022, 5, e202201403.	2.8	7
36	Insight on molecular pathogenesis and pharmacochaperoning potential in phosphomannomutase 2 deficiency, provided by novel human <sc>phosphomannomutase 2</sc> structures. Journal of Inherited Metabolic Disease, 2022, 45, 318-333.	3.6	6

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37	The multienzymatic protein CAD leading the de novo biosynthesis of pyrimidines localizes exclusively in the cytoplasm and does not translocate to the nucleus. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2020, 39, 1320-1334.	1.1	5
38	The N-terminal domain of MuB protein has striking structural similarity to DNA-binding domains and mediates MuB filament-filament interactions. <i>Journal of Structural Biology</i> , 2015, 191, 100-111.	2.8	4
39	A crystallographic glimpse of a nucleotide triphosphate (AMPPNP) bound to a protein surface: external and internal AMPPNP molecules in crystalline N-acetyl-L-glutamate kinase. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002, 58, 1892-1895.	2.5	3
40	MuB gives a new twist to target DNA selection. <i>Mobile Genetic Elements</i> , 2013, 3, e27515.	1.8	3
41	Crystallization and preliminary X-ray diffraction analysis of the seed lectin from <i>Parkia platycephala</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002, 58, 167-169.	2.5	2
42	RAG2 PHD finger couples histone H3 lysine 4 trimethylation with V(D)J recombination. <i>FASEB Journal</i> , 2008, 22, 600.2.	0.5	2