

# Santiago Ramon-Maiques

## List of Publications by Year in descending order

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42  
papers

2,050  
citations

394421

19  
h-index

243625

44  
g-index

51  
all docs

51  
docs citations

51  
times ranked

2391  
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional and structural deficiencies of Gemin5 variants associated with neurological disorders. <i>Life Science Alliance</i> , 2022, 5, e202201403.	2.8	7
2	Insight on molecular pathogenesis and pharmacochaperoning potential in phosphomannomutase 2 deficiency, provided by novel human <sc>phosphomannomutase 2</sc> structures. <i>Journal of Inherited Metabolic Disease</i> , 2022, 45, 318-333.	3.6	6
3	Mechanisms of feedback inhibition and sequential firing of active sites in plant aspartate transcarbamoylase. <i>Nature Communications</i> , 2021, 12, 947.	12.8	17
4	Afatinib Exerts Immunomodulatory Effects by Targeting the Pyrimidine Biosynthesis Enzyme CAD. <i>Cancer Research</i> , 2021, 81, 3270-3282.	0.9	16
5	Deciphering <sc>CAD</sc>: Structure and function of a megaenzymatic pyrimidine factory in health and disease. <i>Protein Science</i> , 2021, 30, 1995-2008.	7.6	21
6	Structural basis for the dimerization of Gemin5 and its role in protein recruitment and translation control. <i>Nucleic Acids Research</i> , 2020, 48, 788-801.	14.5	19
7	Cell-based analysis of CAD variants identifies individuals likely to benefit from uridine therapy. <i>Genetics in Medicine</i> , 2020, 22, 1598-1605.	2.4	18
8	The GATA3 X308_Splice breast cancer mutation is a hormone context-dependent oncogenic driver. <i>Oncogene</i> , 2020, 39, 5455-5467.	5.9	12
9	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
10	CAD, A Multienzymatic Protein at the Head of de Novo Pyrimidine Biosynthesis. <i>Sub-Cellular Biochemistry</i> , 2019, 93, 505-538.	2.4	27
11	Characterization of the catalytic flexible loop in the dihydroorotase domain of the human multi-enzymatic protein CAD. <i>Journal of Biological Chemistry</i> , 2018, 293, 18903-18913.	3.4	18
12	Gain-of-function mutations in DNMT3A in patients with paraganglioma. <i>Genetics in Medicine</i> , 2018, 20, 1644-1651.	2.4	73
13	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
14	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
15	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
16	Structure, Functional Characterization, and Evolution of the Dihydroorotase Domain of Human CAD. <i>Structure</i> , 2014, 22, 185-198.	3.3	60
17	Expression, purification, crystallization and preliminary X-ray diffraction analysis of the aspartate transcarbamoylase domain of human CAD. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2013, 69, 1425-1430.	0.7	12
18	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

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19	MuB gives a new twist to target DNA selection. <i>Mobile Genetic Elements</i> , 2013, 3, e27515.	1.8	3
20	Expression, purification, crystallization and preliminary X-ray diffraction analysis of the dihydroorotase domain of human CAD. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012, 68, 1341-1345.	0.7	12
21	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
22	Structure and mechanism of human DNA polymerase $\beta$ . <i>Nature</i> , 2010, 465, 1044-1048.	27.8	300
23	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. <i>Journal of Molecular Biology</i> , 2010, 397, 1261-1275.	4.2	19
24	Two Crystal Structures of Escherichia coli N-Acetyl-L-Glutamate Kinase Demonstrate the Cycling between Open and Closed Conformations. <i>Journal of Molecular Biology</i> , 2010, 399, 476-490.	4.2	15
25	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
26	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
27	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
28	RAG2 PHD finger couples histone H3 lysine 4 trimethylation with V(D)J recombination. <i>Nature</i> , 2007, 450, 1106-1110.	27.8	429
29	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
30	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
31	Site-directed Mutagenesis of Escherichia coli 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
32	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
33	Molecular Physiology of Phosphoryl Group Transfer from Carbamoyl Phosphate by a Hyperthermophilic Enzyme at Low Temperature. <i>Biochemistry</i> , 2002, 41, 3916-3924.	2.5	9
34	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
35	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
36	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 <i>Pseudomonas aeruginosa</i> , purification and crystallization of the recombinant enzyme and preliminary X-ray studies. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002, 58, 1045-1047.	2.5	7

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37	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
38	[21] Carbamoyl phosphate synthesis: Carbamate kinase from <i>Pyrococcus furiosus</i> . <i>Methods in Enzymology</i> , 2001, 331, 236-247.	1.0	8
39	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
40	Site-directed mutagenesis of the regulatory domain of <i>Escherichia coli</i> carbamoyl phosphate synthetase identifies crucial residues for allosteric regulation and for transduction of the regulatory signals. 1 Edited by A. R. Fersht. <i>Journal of Molecular Biology</i> , 2000, 299, 979-991.	4.2	22
41	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
42	N-Acetyl-L-glutamate kinase from <i>Escherichia coli</i> : cloning of the gene, purification and crystallization of the recombinant enzyme and preliminary X-ray analysis of the free and ligand-bound forms. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1999, 55, 1350-1352.	2.5	10