

# Clara Marco-Marin

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6613000/publications.pdf>

Version: 2024-02-01

18  
papers

580  
citations

759233

12  
h-index

839539

18  
g-index

19  
all docs

19  
docs citations

19  
times ranked

791  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | The crystal structure of the complex of PII and acetylglutamate kinase reveals how PII controls the storage of nitrogen as arginine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 17644-17649.  | 7.1 | 113       |
| 2  | A Novel Two-domain Architecture Within the Amino Acid Kinase Enzyme Family Revealed by the Crystal Structure of <i>Escherichia coli</i> Glutamate 5-kinase. <i>Journal of Molecular Biology</i> , 2007, 367, 1431-1446.  | 4.2 | 62        |
| 3  | The Crystal Structure of <i>Pyrococcus furiosus</i> UMP Kinase Provides Insight into Catalysis and Regulation in Microbial Pyrimidine Nucleotide Biosynthesis. <i>Journal of Molecular Biology</i> , 2005, 352, 438-454.   | 4.2 | 51        |
| 4  | Understanding pyrroline-5-carboxylate synthetase deficiency: clinical, molecular, functional, and expression studies, structure-based analysis, and novel therapy with arginine. <i>Journal of Inherited Metabolic Disease</i> , 2012, 35, 761-776.  | 3.6 | 44        |
| 5  | 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        |
| 6  | The PII-NAGK-PipX-NtcA Regulatory Axis of Cyanobacteria: A Tale of Changing Partners, Allosteric Effectors and Non-covalent Interactions. <i>Frontiers in Molecular Biosciences</i> , 2018, 5, 91.   | 3.5 | 43        |
| 7  | <i>ALDH18A1</i> gene mutations cause dominant spastic paraplegia SPG9: loss of function effect and plausibility of a dominant negative mechanism. <i>Brain</i> , 2016, 139, e3-e3.   | 7.6 | 42        |
| 8  | Estimation of the total number of disease-causing mutations in ornithine transcarbamylase (OTC) deficiency. Value of the OTC structure in predicting a mutation pathogenic potential. <i>Journal of Inherited Metabolic Disease</i> , 2007, 30, 217-226.   | 3.6 | 40        |
| 9  | Understanding Carbamoyl Phosphate Synthetase Deficiency: Impact of Clinical Mutations on Enzyme Functionality. <i>Journal of Molecular Biology</i> , 2005, 349, 127-141.   | 4.2 | 33        |
| 10 | Understanding N-Acetyl-L-Glutamate Synthase Deficiency: Mutational Spectrum, Impact of Clinical Mutations on Enzyme Functionality, and Structural Considerations. <i>Human Mutation</i> , 2016, 37, 679-694.   | 2.5 | 26        |
| 11 | <sup>1</sup> Pyrroline-5-carboxylate synthetase deficiency: An emergent multifaceted urea cycle-related disorder. <i>Journal of Inherited Metabolic Disease</i> , 2020, 43, 657-670.   | 3.6 | 20        |
| 12 | P5CS expression study in a new family with <i>ALDH18A1</i> -associated hereditary spastic paraplegia SPG9. <i>Annals of Clinical and Translational Neurology</i> , 2019, 6, 1533-1540.   | 3.7 | 14        |
| 13 | Functional and structural characterization of PII-like protein CutA does not support involvement in heavy metal tolerance and hints at a small-molecule carrying/signaling role. <i>FEBS Journal</i> , 2021, 288, 1142-1162.   | 4.7 | 14        |
| 14 | Congenital hypomyelinating neuropathy due to a novel MPZ mutation. <i>Journal of the Peripheral Nervous System</i> , 2011, 16, 347-352.  | 3.1 | 12        |
| 15 | First-time crystallization and preliminary X-ray crystallographic analysis of a bacterial-archaeal type UMP kinase, a key enzyme in microbial pyrimidine biosynthesis. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2005, 1747, 271-275.   | 2.3 | 9         |
| 16 | Discovery of 3H-pyrrolo[2,3-c]quinolines with activity against <i>Mycobacterium tuberculosis</i> by allosteric inhibition of the glutamate-5-kinase enzyme. <i>European Journal of Medicinal Chemistry</i> , 2022, 232, 114206.  | 5.5 | 7         |
| 17 | The site for the allosteric activator GTP of <i>Escherichia coli</i> UMP kinase. <i>FEBS Letters</i> , 2009, 583, 185-189.   | 2.8 | 2         |
| 18 | Nitrogen storage regulation by PII protein: lessons learned from taxonomic outliers. <i>FEBS Journal</i> , 2020, 287, 439-442.   | 4.7 | 1         |