

# Alessandro Paiardini

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

96  
papers

2,249  
citations

28  
h-index

42  
g-index

115  
ext. papers

2,818  
ext. citations

5.3  
avg, IF

5.02  
L-index

#	Paper	IF	Citations
96	Structural adaptation of extreme halophilic proteins through decrease of conserved hydrophobic contact surface. <i>BMC Structural Biology</i> , <b>2011</b> , 11, 50	2.7	104
95	PyMod: sequence similarity searches, multiple sequence-structure alignments, and homology modeling within PyMOL. <i>BMC Bioinformatics</i> , <b>2012</b> , 13 Suppl 4, S2	3.6	103
94	PyMod 2.0: improvements in protein sequence-structure analysis and homology modeling within PyMOL. <i>Bioinformatics</i> , <b>2017</b> , 33, 444-446	7.2	97
93	Open conformation of human DOPA decarboxylase reveals the mechanism of PLP addition to Group II decarboxylases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 20514-9	11.5	77
92	L-Threonine aldolase, serine hydroxymethyltransferase and fungal alanine racemase. A subgroup of strictly related enzymes specialized for different functions. <i>FEBS Journal</i> , <b>2001</b> , 268, 6508-25		75
91	Human wild-type alanine:glyoxylate aminotransferase and its naturally occurring G82E variant: functional properties and physiological implications. <i>Biochemical Journal</i> , <b>2007</b> , 408, 39-50	3.8	74
90	Glucose Metabolism in the Progression of Prostate Cancer. <i>Frontiers in Physiology</i> , <b>2017</b> , 8, 97	4.6	61
89	SHMT1 knockdown induces apoptosis in lung cancer cells by causing uracil misincorporation. <i>Cell Death and Disease</i> , <b>2014</b> , 5, e1525	9.8	61
88	The immunosuppressive drug azathioprine inhibits biosynthesis of the bacterial signal molecule cyclic-di-GMP by interfering with intracellular nucleotide pool availability. <i>Applied Microbiology and Biotechnology</i> , <b>2013</b> , 97, 7325-36	5.7	56
87	Molecular defects of the glycine 41 variants of alanine glyoxylate aminotransferase associated with primary hyperoxaluria type I. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 2896-901	11.5	52
86	How pyridoxal 5'-phosphate differentially regulates human cytosolic and mitochondrial serine hydroxymethyltransferase oligomeric state. <i>FEBS Journal</i> , <b>2015</b> , 282, 1225-41	5.7	51
85	Glycine consumption and mitochondrial serine hydroxymethyltransferase in cancer cells: the heme connection. <i>Medical Hypotheses</i> , <b>2013</b> , 80, 633-6	3.8	50
84	Identification by virtual screening and in vitro testing of human DOPA decarboxylase inhibitors. <i>PLoS ONE</i> , <b>2012</b> , 7, e31610	3.7	47
83	Betulinic acid is a PPAR $\alpha$ antagonist that improves glucose uptake, promotes osteogenesis and inhibits adipogenesis. <i>Scientific Reports</i> , <b>2017</b> , 7, 5777	4.9	45
82	In silico and in vitro validation of serine hydroxymethyltransferase as a chemotherapeutic target of the antifolate drug pemetrexed. <i>European Journal of Medicinal Chemistry</i> , <b>2011</b> , 46, 1616-21	6.8	45
81	Synthesis and structure-activity relationships of phosphonic arginine mimetics as inhibitors of the M1 and M17 aminopeptidases from Plasmodium falciparum. <i>Journal of Medicinal Chemistry</i> , <b>2013</b> , 56, 5213-7	8.3	43
80	On the catalytic mechanism and stereospecificity of Escherichia coli L-threonine aldolase. <i>FEBS Journal</i> , <b>2014</b> , 281, 129-45	5.7	42

79	C-di-GMP hydrolysis by <i>Pseudomonas aeruginosa</i> HD-GYP phosphodiesterases: analysis of the reaction mechanism and novel roles for pGpG. <i>PLoS ONE</i> , <b>2013</b> , 8, e74920	3.7	42
78	Molecular Insight into the Synergism between the Minor Allele of Human Liver Peroxisomal Alanine:Glyoxylate Aminotransferase and the F152I Mutation. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 8349-58	5.4	42
77	Two-pronged attack: dual inhibition of <i>Plasmodium falciparum</i> M1 and M17 metalloaminopeptidases by a novel series of hydroxamic acid-based inhibitors. <i>Journal of Medicinal Chemistry</i> , <b>2014</b> , 57, 9168-83	8.3	39
76	N-Methyladenosine (mA): A Promising New Molecular Target in Acute Myeloid Leukemia. <i>Frontiers in Oncology</i> , <b>2019</b> , 9, 251	5.3	38
75	Alanine racemase from <i>Tolypocladium inflatum</i> : a key PLP-dependent enzyme in cyclosporin biosynthesis and a model of catalytic promiscuity. <i>Archives of Biochemistry and Biophysics</i> , <b>2013</b> , 529, 55-65	4.1	34
74	Evolutionarily conserved regions and hydrophobic contacts at the superfamily level: The case of the fold-type I, pyridoxal-5'-phosphate-dependent enzymes. <i>Protein Science</i> , <b>2004</b> , 13, 2992-3005	6.3	32
73	A pyrazolopyran derivative preferentially inhibits the activity of human cytosolic serine hydroxymethyltransferase and induces cell death in lung cancer cells. <i>Oncotarget</i> , <b>2016</b> , 7, 4570-83	3.3	32
72	Investigating the allosteric regulation of YfiN from <i>Pseudomonas aeruginosa</i> : clues from the structure of the catalytic domain. <i>PLoS ONE</i> , <b>2013</b> , 8, e81324	3.7	31
71	Potent dual inhibitors of <i>Plasmodium falciparum</i> M1 and M17 aminopeptidases through optimization of S1 pocket interactions. <i>European Journal of Medicinal Chemistry</i> , <b>2016</b> , 110, 43-64	6.8	30
70	Threonine aldolase and alanine racemase: novel examples of convergent evolution in the superfamily of vitamin B6-dependent enzymes. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2003</b> , 1647, 214-9	4	30
69	Differential 3-bromopyruvate inhibition of cytosolic and mitochondrial human serine hydroxymethyltransferase isoforms, key enzymes in cancer metabolic reprogramming. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2016</b> , 1864, 1506-17	4	28
68	Structural plasticity of thermophilic serine hydroxymethyltransferases. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2003</b> , 50, 122-34	4.2	27
67	Screening and in vitro testing of antifolate inhibitors of human cytosolic serine hydroxymethyltransferase. <i>ChemMedChem</i> , <b>2015</b> , 10, 490-7	3.7	25
66	Synthesis of Triazole-Linked Analogues of c-di-GMP and Their Interactions with Diguanylate Cyclase. <i>Journal of Medicinal Chemistry</i> , <b>2015</b> , 58, 8269-84	8.3	25
65	In Silico Discovery and In Vitro Validation of Catechol-Containing Sulfonohydrazide Compounds as Potent Inhibitors of the Diguanylate Cyclase PleD. <i>Journal of Bacteriology</i> , <b>2016</b> , 198, 147-56	3.5	25
64	The phytotoxin fusaric acid differently regulates 14-3-3 proteins association to mode III targets. <i>IUBMB Life</i> , <b>2014</b> , 66, 52-62	4.7	25
63	Screening the Medicines for Malaria Venture "Malaria Box" against the <i>Plasmodium falciparum</i> aminopeptidases, M1, M17 and M18. <i>PLoS ONE</i> , <b>2015</b> , 10, e0115859	3.7	25
62	Cofactor-dependent conformational heterogeneity of GAD65 and its role in autoimmunity and neurotransmitter homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, E2524-9	11.5	25

61	Molecular analysis of sarcomeric and non-sarcomeric genes in patients with hypertrophic cardiomyopathy. <i>Gene</i> , <b>2016</b> , 577, 227-35	3.8	24
60	Molecular insights into primary hyperoxaluria type 1 pathogenesis. <i>Frontiers in Bioscience - Landmark</i> , <b>2012</b> , 17, 621-34	2.8	24
59	Structural basis of functional diversification of the HD-GYP domain revealed by the <i>Pseudomonas aeruginosa</i> PA4781 protein, which displays an unselective bimetallic binding site. <i>Journal of Bacteriology</i> , <b>2015</b> , 197, 1525-35	3.5	23
58	Crystal structure of the S187F variant of human liver alanine: glyoxylate [corrected] aminotransferase associated with primary hyperoxaluria type I and its functional implications. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2013</b> , 81, 1457-65	4.2	20
57	Dimerization and folding processes of <i>Treponema denticola</i> cystalysin: the role of pyridoxal 5'-phosphate. <i>Biochemistry</i> , <b>2006</b> , 45, 14140-54	3.2	20
56	PyMod 3: a complete suite for structural bioinformatics in PyMOL. <i>Bioinformatics</i> , <b>2021</b> , 37, 1471-1472	7.2	18
55	Pyridoxine-5'-phosphate oxidase (Pnpo) deficiency: Clinical and biochemical alterations associated with the C.347g>A (P.ΔArg116gln) mutation. <i>Molecular Genetics and Metabolism</i> , <b>2017</b> , 122, 135-142	3.7	17
54	Rapid profiling of disease alleles using a tunable reporter of protein misfolding. <i>Genetics</i> , <b>2012</b> , 192, 831-42	4	17
53	Insights into the interaction of sortilin with proneurotrophins: a computational approach. <i>Neuropeptides</i> , <b>2008</b> , 42, 205-14	3.3	17
52	CAMPO, SCR_FIND and CHC_FIND: a suite of web tools for computational structural biology. <i>Nucleic Acids Research</i> , <b>2005</b> , 33, W50-5	20.1	17
51	Type I pyridoxal 5'-phosphate dependent enzymatic domains embedded within multimodular nonribosomal peptide synthetase and polyketide synthase assembly lines. <i>BMC Structural Biology</i> , <b>2013</b> , 13, 26	2.7	16
50	<i>Treponema denticola</i> cystalysin exhibits significant alanine racemase activity accompanied by transamination: mechanistic implications. <i>Biochemical Journal</i> , <b>2003</b> , 371, 473-83	3.8	16
49	"Hot cores" in proteins: comparative analysis of the apolar contact area in structures from hyper/thermophilic and mesophilic organisms. <i>BMC Structural Biology</i> , <b>2008</b> , 8, 14	2.7	15
48	A novel bacterial l-arginine sensor controlling c-di-GMP levels in <i>Pseudomonas aeruginosa</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2018</b> , 86, 1088-1096	4.2	14
47	Identification and Validation of a Potent Dual Inhibitor of the <i>P. falciparum</i> M1 and M17 Aminopeptidases Using Virtual Screening. <i>PLoS ONE</i> , <b>2015</b> , 10, e0138957	3.7	14
46	The role of evolutionarily conserved hydrophobic contacts in the quaternary structure stability of <i>Escherichia coli</i> serine hydroxymethyltransferase. <i>FEBS Journal</i> , <b>2009</b> , 276, 132-43	5.7	14
45	Bacterial Oxidases of the Cytochrome Family: Redox Enzymes of Unique Structure, Function, and Utility As Drug Targets. <i>Antioxidants and Redox Signaling</i> , <b>2021</b> , 34, 1280-1318	8.4	14
44	Insights into the GTP-dependent allosteric control of c-di-GMP hydrolysis from the crystal structure of PA0575 protein from <i>Pseudomonas aeruginosa</i> . <i>FEBS Journal</i> , <b>2018</b> , 285, 3815-3834	5.7	13

43	Insight into the structure-function relationship of the nonheme iron halogenases involved in the biosynthesis of 4-chlorothreonine --Thr3 from <i>Streptomyces</i> sp. OH-5093 and SyrB2 from <i>Pseudomonas syringae</i> pv. <i>syringae</i> B301DR. <i>FEBS Journal</i> , <b>2012</b> , 279, 4269-82	5.7	13
42	Identification of small molecule inhibitors of the Aurora-A/TPX2 complex. <i>Oncotarget</i> , <b>2017</b> , 8, 32117-32133	3.3	13
41	A novel compound heterozygous genotype associated with aromatic amino acid decarboxylase deficiency: Clinical aspects and biochemical studies. <i>Molecular Genetics and Metabolism</i> , <b>2019</b> , 127, 132-137	3.7	12
40	The moonlighting RNA-binding activity of cytosolic serine hydroxymethyltransferase contributes to control compartmentalization of serine metabolism. <i>Nucleic Acids Research</i> , <b>2019</b> , 47, 4240-4254	20.1	12
39	Unique substrate specificity of ornithine aminotransferase from. <i>Biochemical Journal</i> , <b>2017</b> , 474, 939-955	5.8	11
38	The catalytic activity of serine hydroxymethyltransferase is essential for de novo nuclear dTMP synthesis in lung cancer cells. <i>FEBS Journal</i> , <b>2018</b> , 285, 3238-3253	5.7	11
37	Chemogenomics of pyridoxal 5'-phosphate dependent enzymes. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , <b>2013</b> , 28, 183-94	5.6	11
36	Structural investigation of nucleophosmin interaction with the tumor suppressor Fbw7. <i>Oncogenesis</i> , <b>2017</b> , 6, e379	6.6	11
35	Insights into PPAR $\alpha$ Phosphorylation and Its Inhibition Mechanism. <i>Journal of Medicinal Chemistry</i> , <b>2020</b> , 63, 4811-4823	8.3	11
34	Radiation damage at the active site of human alanine:glyoxylate aminotransferase reveals that the cofactor position is finely tuned during catalysis. <i>Scientific Reports</i> , <b>2017</b> , 7, 11704	4.9	10
33	Expression of Bv8 in <i>Pichia pastoris</i> to identify structural features for receptor binding. <i>Protein Expression and Purification</i> , <b>2010</b> , 73, 10-4	2	10
32	Site-directed mutagenesis provides insight into racemization and transamination of alanine catalyzed by <i>Treponema denticola</i> cystalysin. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 36898-905	5.4	10
31	Heterozygosis in aromatic amino acid decarboxylase deficiency: Evidence for a positive interallelic complementation between R347Q and R358H mutations. <i>IUBMB Life</i> , <b>2018</b> , 70, 215-223	4.7	9
30	The novel R347g pathogenic mutation of aromatic amino acid decarboxylase provides additional molecular insights into enzyme catalysis and deficiency. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2016</b> , 1864, 676-682	4	9
29	Biochemical data from the characterization of a new pathogenic mutation of human pyridoxine-5'-phosphate oxidase (PNPO). <i>Data in Brief</i> , <b>2017</b> , 15, 868-875	1.2	9
28	X-ray crystal structures of an orally available aminopeptidase inhibitor, Tosedostat, bound to anti-malarial drug targets PfA-M1 and PfA-M17. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2015</b> , 83, 789-95	4.2	9
27	A 3D model of Reelin subrepeat regions predicts Reelin binding to carbohydrates. <i>Brain Research</i> , <b>2006</b> , 1116, 222-30	3.7	9
26	SMaRT lncRNA controls translation of a G-quadruplex-containing mRNA antagonizing the DHX36 helicase. <i>EMBO Reports</i> , <b>2020</b> , 21, e49942	6.5	9

25	New Insights Emerging from Recent Investigations on Human Group II Pyridoxal 5'-Phosphate Decarboxylases. <i>Current Medicinal Chemistry</i> , <b>2017</b> , 24, 226-244	4.3	9
24	Nuclear localisation of Aurora-A: its regulation and significance for Aurora-A functions in cancer. <i>Oncogene</i> , <b>2021</b> , 40, 3917-3928	9.2	9
23	An engineered folded PLP-bound monomer of <i>Treponema denticola</i> cystalysin reveals the effect of the dimeric structure on the catalytic properties of the enzyme. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2009</b> , 74, 304-17	4.2	8
22	Differential inhibitory effect of a pyrazolopyran compound on human serine hydroxymethyltransferase-amino acid complexes. <i>Archives of Biochemistry and Biophysics</i> , <b>2018</b> , 653, 71-79	4.1	7
21	Structural mimicry between SLA/LP and Rickettsia surface antigens as a driver of autoimmune hepatitis: insights from an in silico study. <i>Theoretical Biology and Medical Modelling</i> , <b>2013</b> , 10, 25	2.3	7
20	Artemisinin Derivatives with Antimelanoma Activity Show Inhibitory Effect against Human DNA Topoisomerase 1. <i>ACS Medicinal Chemistry Letters</i> , <b>2020</b> , 11, 1035-1040	4.3	7
19	Functional Characterization and Structure-Guided Mutational Analysis of the Transsulfuration Enzyme Cystathionine $\gamma$ -Lyase from. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	5
18	Intronic Determinants Coordinate Charme lncRNA Nuclear Activity through the Interaction with MATR3 and PTBP1. <i>Cell Reports</i> , <b>2020</b> , 33, 108548	10.6	5
17	Revisiting the "satisfaction of spatial restraints" approach of MODELLER for protein homology modeling. <i>PLoS Computational Biology</i> , <b>2019</b> , 15, e1007219	5	5
16	Cytosolic serine hydroxymethyltransferase controls lung adenocarcinoma cells migratory ability by modulating AMP kinase activity. <i>Cell Death and Disease</i> , <b>2020</b> , 11, 1012	9.8	4
15	Structural stability of the cofactor binding site in <i>Escherichia coli</i> serine hydroxymethyltransferase--the role of evolutionarily conserved hydrophobic contacts. <i>FEBS Journal</i> , <b>2009</b> , 276, 7319-28	5.7	3
14	Mutational analysis and homology modelling of SyrC, the aminoacyltransferase in the biosynthesis of syringomycin. <i>Biochemical and Biophysical Research Communications</i> , <b>2007</b> , 364, 201-7	3.4	3
13	Prenatal whole exome sequencing detects a new homozygous fukutin (FKTN) mutation in a fetus with an ultrasound suspicion of familial Dandy-Walker malformation. <i>Molecular Genetics &amp; Genomic Medicine</i> , <b>2020</b> , 8, e1054	2.3	3
12	From PARP1 to TNKS2 Inhibition: A Structure-Based Approach. <i>ACS Medicinal Chemistry Letters</i> , <b>2020</b> , 11, 862-868	4.3	3
11	A novel germline mutation in CDK4 codon 24 associated to familial melanoma. <i>Clinical Genetics</i> , <b>2018</b> , 93, 934-935	4	3
10	A conserved scaffold with heterogeneous metal ion binding site: the multifaceted example of HD-GYP proteins. <i>Coordination Chemistry Reviews</i> , <b>2022</b> , 450, 214228	23.2	3
9	R180T variant of $\beta$ -ornithine aminotransferase associated with gyrate atrophy: biochemical, computational, X-ray and NMR studies provide insight into its catalytic features. <i>FEBS Journal</i> , <b>2019</b> , 286, 2787-2798	5.7	2
8	Familial hypomagnesaemia, Hypercalciuria and Nephrocalcinosis associated with a novel mutation of the highly conserved leucine residue 116 of Claudin 16 in a Chinese patient with a delayed diagnosis: a case report. <i>BMC Nephrology</i> , <b>2018</b> , 19, 181	2.7	2

7	Reactions of human liver peroxisomal alanine:glyoxylate aminotransferase with beta-chloro-L-alanine and L-cysteine: spectroscopic and kinetic analysis. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2008</b> , 1784, 1356-62	4	2
6	Structural analysis of toxic volkensin, a type 2 ribosome inactivating protein from <i>Adenia volkensii</i> Harm (kilyambiti plant): molecular modeling and surface analysis by computational methods and limited proteolysis. <i>International Journal of Biological Macromolecules</i> , <b>2009</b> , 45, 407-13	7.9	1
5	Structure and Function of HD-GYP Phosphodiesterases <b>2020</b> , 65-78		1
4	Revisiting the Satisfaction of spatial restraints: an approach of MODELLER for protein homology modeling		1
3	Cysteine 180 Is a Redox Sensor Modulating the Activity of Human Pyridoxal 5'-Phosphate Histidine Decarboxylase. <i>Biochemistry</i> , <b>2018</b> , 57, 6336-6348	3.2	1
2	The Archaeal Elongation Factor EF-2 Induces the Release of aIF6 From 50S Ribosomal Subunit. <i>Frontiers in Microbiology</i> , <b>2021</b> , 12, 631297	5.7	0
1	Prediction and visualization data for the interpretation of sarcomeric and non-sarcomeric DNA variants found in patients with hypertrophic cardiomyopathy. <i>Data in Brief</i> , <b>2016</b> , 7, 607-13	1.2	