

Martino Luigi di Salvo

List of Publications by Year in Descending Order

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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.

67

papers

1,848

citations

28

h-index

40

g-index

74

ext. papers

2,117

ext. citations

4.1

avg, IF

4.42

L-index

#	Paper	IF	Citations
67	Physiological and Biochemical Markers of the Sex-Specific Sensitivity to Epileptogenic Factors, Delayed Consequences of Seizures and Their Response to Vitamins B1 and B6 in a Rat Model. <i>Pharmaceuticals</i> , 2021 , 14,	5.2	1
66	Identification and characterization of the pyridoxal 5Pphosphate allosteric site in Escherichia coli pyridoxine 5Pphosphate oxidase. <i>Journal of Biological Chemistry</i> , 2021 , 296, 100795	5.4	0
65	Interaction of Bacillus subtilis GabR with the gabTD promoter: role of repeated sequences and effect of GABA in transcriptional activation. <i>FEBS Journal</i> , 2020 , 287, 4952-4970	5.7	4
64	The multifaceted role of vitamin B in cancer: as a model system to investigate DNA damage. <i>Open Biology</i> , 2020 , 10, 200034	7	6
63	An Engineered Escherichia coli Strain with Synthetic Metabolism for in-Cell Production of Translationally Active Methionine Derivatives. <i>ChemBioChem</i> , 2020 , 21, 3525-3538	3.8	7
62	Molecular characterization of pyridoxine 5Pphosphate oxidase and its pathogenic forms associated with neonatal epileptic encephalopathy. <i>Scientific Reports</i> , 2020 , 10, 13621	4.9	3
61	Allosteric feedback inhibition of pyridoxine 5Pphosphate oxidase from. <i>Journal of Biological Chemistry</i> , 2019 , 294, 15593-15603	5.4	5
60	Isolation of a Complex Formed Between HemA and HemL, Key Enzymes of Tetrapyrroles Biosynthesis. <i>Frontiers in Molecular Biosciences</i> , 2019 , 6, 6	5.6	7
59	The expression of four pyridoxal kinase (PDXK) human variants in Drosophila impacts on genome integrity. <i>Scientific Reports</i> , 2019 , 9, 14188	4.9	5
58	Self-Directed in Cell Production of Methionine Analogue Azidohomoalanine by Synthetic Metabolism and Its Incorporation into Model Proteins. <i>Methods in Molecular Biology</i> , 2018 , 1728, 127-135	1.4	6
57	The MocR-like transcription factors: pyridoxal 5Pphosphate-dependent regulators of bacterial metabolism. <i>FEBS Journal</i> , 2018 , 285, 3925-3944	5.7	16
56	A Comprehensive Computational Analysis of Mycobacterium Genomes Pinpoints the Genes Co-occurring with YczE, a Membrane Protein Coding Gene Under the Putative Control of a MocR, and Predicts its Function. <i>Interdisciplinary Sciences, Computational Life Sciences</i> , 2018 , 10, 111-125	3.5	3
55	Human Cytosolic and Mitochondrial Serine Hydroxymethyltransferase Isoforms in Comparison: Full Kinetic Characterization and Substrate Inhibition Properties. <i>Biochemistry</i> , 2018 , 57, 6984-6996	3.2	15
54	Salmonella typhimurium PtsJ is a novel MocR-like transcriptional repressor involved in regulating the vitamin B salvage pathway. <i>FEBS Journal</i> , 2017 , 284, 466-484	5.7	11
53	Pyridoxine-5Pphosphate oxidase (Pnpo) deficiency: Clinical and biochemical alterations associated with the C.347g>A (P.ΔArg116gln) mutation. <i>Molecular Genetics and Metabolism</i> , 2017 , 122, 135-142	3.7	17
52	Study of DNA binding and bending by Bacillus subtilis GabR, a PLP-dependent transcription factor. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017 , 1861, 3474-3489	4	12
51	Biochemical data from the characterization of a new pathogenic mutation of human pyridoxine-5Pphosphate oxidase (PNPO). <i>Data in Brief</i> , 2017 , 15, 868-875	1.2	9

50	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> , 2016 , 1864, 1506-17	4	28
49	A Bioinformatics Analysis Reveals a Group of MocR Bacterial Transcriptional Regulators Linked to a Family of Genes Coding for Membrane Proteins. <i>Biochemistry Research International</i> , 2016 , 2016, 43602854	2.4	9
48	Data from computational analysis of the peptide linkers in the MocR bacterial transcriptional regulators. <i>Data in Brief</i> , 2016 , 9, 292-313	1.2	7
47	Structural properties of the linkers connecting the N- and C- terminal domains in the MocR bacterial transcriptional regulators. <i>Biochimie Open</i> , 2016 , 3, 8-18	0	9
46	Molecular mechanisms of the non-coenzyme action of thiamin in brain: biochemical, structural and pathway analysis. <i>Scientific Reports</i> , 2015 , 5, 12583	4.9	72
45	Conserved water molecules in bacterial serine hydroxymethyltransferases. <i>Protein Engineering, Design and Selection</i> , 2015 , 28, 415-26	1.9	4
44	On the mechanism of Escherichia coli pyridoxal kinase inhibition by pyridoxal and pyridoxal 5Pphosphate. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2015 , 1854, 1160-6	4	17
43	Inhibition of human pyridoxal kinase by 2-acetyl-4-((1R,2S,3R)-1,2,3,4-tetrahydroxybutyl)imidazole (THI). <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2015 , 30, 336-40	5.6	8
42	Molecular mechanism of PdxR Δ transcriptional activator involved in the regulation of vitamin B6 biosynthesis in the probiotic bacterium Bacillus clausii. <i>FEBS Journal</i> , 2015 , 282, 2966-84	5.7	26
41	How pyridoxal 5Pphosphate differentially regulates human cytosolic and mitochondrial serine hydroxymethyltransferase oligomeric state. <i>FEBS Journal</i> , 2015 , 282, 1225-41	5.7	51
40	Molecular basis of E. coli L-threonine aldolase catalytic inactivation at low pH. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2015 , 1854, 278-83	4	4
39	Structural stability of cold-adapted serine hydroxymethyltransferase, a tool for Δ hydroxy- Δ amino acid biosynthesis. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2014 , 110, 171-177		1
38	Coupling bioorthogonal chemistries with artificial metabolism: intracellular biosynthesis of azidohomoalanine and its incorporation into recombinant proteins. <i>Molecules</i> , 2014 , 19, 1004-22	4.8	46
37	On the catalytic mechanism and stereospecificity of Escherichia coli L-threonine aldolase. <i>FEBS Journal</i> , 2014 , 281, 129-45	5.7	42
36	Alanine racemase from Tolypocladium inflatum: a key PLP-dependent enzyme in cyclosporin biosynthesis and a model of catalytic promiscuity. <i>Archives of Biochemistry and Biophysics</i> , 2013 , 529, 55-65	4.1	34
35	Glycine consumption and mitochondrial serine hydroxymethyltransferase in cancer cells: the heme connection. <i>Medical Hypotheses</i> , 2013 , 80, 633-6	3.8	50
34	Asymmetry of the active site loop conformation between subunits of glutamate-1-semialdehyde aminomutase in solution. <i>BioMed Research International</i> , 2013 , 2013, 353270	3	12
33	Structure-based mechanism for early PLP-mediated steps of rabbit cytosolic serine hydroxymethyltransferase reaction. <i>BioMed Research International</i> , 2013 , 2013, 458571	3	14

32	Biomedical aspects of pyridoxal 5Pphosphate availability. <i>Frontiers in Bioscience - Scholar</i> , 2012 , 4, 897-913	34	39
31	Crystal structures of human pyridoxal kinase in complex with the neurotoxins, ginkgotoxin and theophylline: insights into pyridoxal kinase inhibition. <i>PLoS ONE</i> , 2012 , 7, e40954	3-7	22
30	Pyridoxal 5Pphosphate is a slow tight binding inhibitor of E. coli pyridoxal kinase. <i>PLoS ONE</i> , 2012 , 7, e41680	3-7	33
29	Molecular Defects of Vitamin B6 Metabolism Associated with Neonatal Epileptic Encephalopathy 2012 ,		1
28	Serine hydroxymethyltransferase: a model enzyme for mechanistic, structural, and evolutionary studies. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2011 , 1814, 1489-96	4	48
27	Vitamin B(6) salvage enzymes: mechanism, structure and regulation. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2011 , 1814, 1597-608	4	141
26	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> , 2011 , 46, 1616-21	6.8	45
25	Site-specific incorporation of fluorotyrosines into proteins in Escherichia coli by photochemical disguise. <i>Biochemistry</i> , 2010 , 49, 1557-9	3-2	31
24	Molecular basis of reduced pyridoxine 5Pphosphate oxidase catalytic activity in neonatal epileptic encephalopathy disorder. <i>Journal of Biological Chemistry</i> , 2009 , 284, 30949-56	5-4	32
23	Kinetic and structural studies of the role of the active site residue Asp235 of human pyridoxal kinase. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 381, 12-5	3-4	22
22	Role of a conserved active site cation-pi interaction in Escherichia coli serine hydroxymethyltransferase. <i>Biochemistry</i> , 2009 , 48, 12034-46	3-2	29
21	Crystal Structure of human pyridoxal kinase: structural basis of M(+) and M(2+) activation. <i>Protein Science</i> , 2007 , 16, 2184-94	6-3	32
20	Pyridoxal 5Pphosphate enzymes as targets for therapeutic agents. <i>Current Medicinal Chemistry</i> , 2007 , 14, 1291-324	4-3	153
19	Crystal structure of pyridoxal kinase from the Escherichia coli pdxK gene: implications for the classification of pyridoxal kinases. <i>Journal of Bacteriology</i> , 2006 , 188, 4542-52	3-5	48
18	Crystal structure of the PdxY Protein from Escherichia coli. <i>Journal of Bacteriology</i> , 2004 , 186, 8074-82	3-5	31
17	Serine hydroxymethyltransferase: role of glu75 and evidence that serine is cleaved by a retroaldol mechanism. <i>Biochemistry</i> , 2004 , 43, 6865-76	3-2	52
16	Expression, purification, and kinetic constants for human and Escherichia coli pyridoxal kinases. <i>Protein Expression and Purification</i> , 2004 , 36, 300-6	2	37
15	Structure and mechanism of Escherichia coli pyridoxine 5Pphosphate oxidase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2003 , 1647, 76-82	4	51

14	Structure and properties of recombinant human pyridoxine 5Pphosphate oxidase. <i>Protein Science</i> , 2003 , 12, 1455-63	6.3	64
13	Treponema denticola cystalysin exhibits significant alanine racemase activity accompanied by transamination: mechanistic implications. <i>Biochemical Journal</i> , 2003 , 371, 473-83	3.8	16
12	Active site structure and stereospecificity of Escherichia coli pyridoxine-5Pphosphate oxidase. <i>Journal of Molecular Biology</i> , 2002 , 315, 385-97	6.5	35
11	l-Threonine aldolase, serine hydroxymethyltransferase and fungal alanine racemase. A subgroup of strictly related enzymes specialized for different functions. <i>FEBS Journal</i> , 2001 , 268, 6508-25		75
10	Enzymatic determination of homocysteine in cell extracts. <i>Analytical Biochemistry</i> , 2001 , 290, 359-65	3.1	15
9	Distribution of B6 vitamers in Escherichia coli as determined by enzymatic assay. <i>Analytical Biochemistry</i> , 2001 , 298, 314-21	3.1	22
8	X-ray structure of Escherichia coli pyridoxine 5Pphosphate oxidase complexed with pyridoxal 5Pphosphate at 2.0 Å resolution. <i>Journal of Molecular Biology</i> , 2001 , 310, 817-26	6.5	36
7	Structure of human erythrocyte catalase. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2000 , 56, 241-5		41
6	X-ray structure of Escherichia coli pyridoxine 5Pphosphate oxidase complexed with FMN at 1.8 Å resolution. <i>Structure</i> , 2000 , 8, 751-62	5.2	26
5	Crystallization and preliminary X-ray crystallographic analysis of pyridoxine 5Pphosphate oxidase complexed with flavin mononucleotide. <i>Journal of Structural Biology</i> , 1999 , 127, 88-91	3.4	5
4	Deamidation of asparagine residues in a recombinant serine hydroxymethyltransferase. <i>Archives of Biochemistry and Biophysics</i> , 1999 , 372, 271-9	4.1	11
3	Purification and characterization of recombinant rabbit cytosolic serine hydroxymethyltransferase. <i>Protein Expression and Purification</i> , 1998 , 13, 177-83	2	24
2	Expression, purification, and characterization of recombinant Escherichia coli pyridoxine 5Pphosphate oxidase. <i>Protein Expression and Purification</i> , 1998 , 13, 349-56	2	45
1	Expression, purification, and characterization of human cytosolic serine hydroxymethyltransferase. <i>Protein Expression and Purification</i> , 1995 , 6, 411-6	2	18