

# Martino Luigi di Salvo

## List of Publications by Citations

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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	Pyridoxal 5Tphosphate enzymes as targets for therapeutic agents. <i>Current Medicinal Chemistry</i> , <b>2007</b> , 14, 1291-324	4.3	153
66	Vitamin B(6) salvage enzymes: mechanism, structure and regulation. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2011</b> , 1814, 1597-608	4	141
65	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
64	Molecular mechanisms of the non-coenzyme action of thiamin in brain: biochemical, structural and pathway analysis. <i>Scientific Reports</i> , <b>2015</b> , 5, 12583	4.9	72
63	Structure and properties of recombinant human pyridoxine 5Tphosphate oxidase. <i>Protein Science</i> , <b>2003</b> , 12, 1455-63	6.3	64
62	Serine hydroxymethyltransferase: role of glu75 and evidence that serine is cleaved by a retroaldol mechanism. <i>Biochemistry</i> , <b>2004</b> , 43, 6865-76	3.2	52
61	How pyridoxal 5Tphosphate differentially regulates human cytosolic and mitochondrial serine hydroxymethyltransferase oligomeric state. <i>FEBS Journal</i> , <b>2015</b> , 282, 1225-41	5.7	51
60	Structure and mechanism of Escherichia coli pyridoxine 5Tphosphate oxidase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2003</b> , 1647, 76-82	4	51
59	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
58	Serine hydroxymethyltransferase: a model enzyme for mechanistic, structural, and evolutionary studies. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2011</b> , 1814, 1489-96	4	48
57	Crystal structure of pyridoxal kinase from the Escherichia coli pdxK gene: implications for the classification of pyridoxal kinases. <i>Journal of Bacteriology</i> , <b>2006</b> , 188, 4542-52	3.5	48
56	Coupling bioorthogonal chemistries with artificial metabolism: intracellular biosynthesis of azidohomoalanine and its incorporation into recombinant proteins. <i>Molecules</i> , <b>2014</b> , 19, 1004-22	4.8	46
55	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
54	Expression, purification, and characterization of recombinant Escherichia coli pyridoxine 5Tphosphate oxidase. <i>Protein Expression and Purification</i> , <b>1998</b> , 13, 349-56	2	45
53	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
52	Structure of human erythrocyte catalase. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2000</b> , 56, 241-5		41
51	Biomedical aspects of pyridoxal 5Tphosphate availability. <i>Frontiers in Bioscience - Scholar</i> , <b>2012</b> , 4, 897-913		39

50	Expression, purification, and kinetic constants for human and Escherichia coli pyridoxal kinases. <i>Protein Expression and Purification</i> , <b>2004</b> , 36, 300-6	2	37
49	X-ray structure of Escherichia coli pyridoxine 5Pphosphate oxidase complexed with pyridoxal 5Pphosphate at 2.0 Å resolution. <i>Journal of Molecular Biology</i> , <b>2001</b> , 310, 817-26	6.5	36
48	Active site structure and stereospecificity of Escherichia coli pyridoxine-5Pphosphate oxidase. <i>Journal of Molecular Biology</i> , <b>2002</b> , 315, 385-97	6.5	35
47	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> , <b>2013</b> , 529, 55-65	4.1	34
46	Pyridoxal 5Pphosphate is a slow tight binding inhibitor of E. coli pyridoxal kinase. <i>PLoS ONE</i> , <b>2012</b> , 7, e41680	3.7	33
45	Molecular basis of reduced pyridoxine 5Pphosphate oxidase catalytic activity in neonatal epileptic encephalopathy disorder. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 30949-56	5.4	32
44	Crystal Structure of human pyridoxal kinase: structural basis of M(+) and M(2+) activation. <i>Protein Science</i> , <b>2007</b> , 16, 2184-94	6.3	32
43	Site-specific incorporation of fluorotyrosines into proteins in Escherichia coli by photochemical disguise. <i>Biochemistry</i> , <b>2010</b> , 49, 1557-9	3.2	31
42	Crystal structure of the PdxY Protein from Escherichia coli. <i>Journal of Bacteriology</i> , <b>2004</b> , 186, 8074-82	3.5	31
41	Role of a conserved active site cation-pi interaction in Escherichia coli serine hydroxymethyltransferase. <i>Biochemistry</i> , <b>2009</b> , 48, 12034-46	3.2	29
40	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
39	Molecular mechanism of PdxR $\beta$ transcriptional activator involved in the regulation of vitamin B6 biosynthesis in the probiotic bacterium Bacillus clausii. <i>FEBS Journal</i> , <b>2015</b> , 282, 2966-84	5.7	26
38	X-ray structure of Escherichia coli pyridoxine 5Pphosphate oxidase complexed with FMN at 1.8 Å resolution. <i>Structure</i> , <b>2000</b> , 8, 751-62	5.2	26
37	Purification and characterization of recombinant rabbit cytosolic serine hydroxymethyltransferase. <i>Protein Expression and Purification</i> , <b>1998</b> , 13, 177-83	2	24
36	Crystal structures of human pyridoxal kinase in complex with the neurotoxins, ginkgotoxin and theophylline: insights into pyridoxal kinase inhibition. <i>PLoS ONE</i> , <b>2012</b> , 7, e40954	3.7	22
35	Kinetic and structural studies of the role of the active site residue Asp235 of human pyridoxal kinase. <i>Biochemical and Biophysical Research Communications</i> , <b>2009</b> , 381, 12-5	3.4	22
34	Distribution of B6 vitamers in Escherichia coli as determined by enzymatic assay. <i>Analytical Biochemistry</i> , <b>2001</b> , 298, 314-21	3.1	22
33	Expression, purification, and characterization of human cytosolic serine hydroxymethyltransferase. <i>Protein Expression and Purification</i> , <b>1995</b> , 6, 411-6	2	18

32	On the mechanism of Escherichia coli pyridoxal kinase inhibition by pyridoxal and pyridoxal 5Pphosphate. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2015</b> , 1854, 1160-6	4	17
31	Pyridoxine-5Pphosphate oxidase (Pnpo) deficiency: Clinical and biochemical alterations associated with the C.347g>A (P. Arg116gln) mutation. <i>Molecular Genetics and Metabolism</i> , <b>2017</b> , 122, 135-142	3-7	17
30	The MocR-like transcription factors: pyridoxal 5Pphosphate-dependent regulators of bacterial metabolism. <i>FEBS Journal</i> , <b>2018</b> , 285, 3925-3944	5-7	16
29	Treponema denticola cystalysin exhibits significant alanine racemase activity accompanied by transamination: mechanistic implications. <i>Biochemical Journal</i> , <b>2003</b> , 371, 473-83	3-8	16
28	Enzymatic determination of homocysteine in cell extracts. <i>Analytical Biochemistry</i> , <b>2001</b> , 290, 359-65	3-1	15
27	Human Cytosolic and Mitochondrial Serine Hydroxymethyltransferase Isoforms in Comparison: Full Kinetic Characterization and Substrate Inhibition Properties. <i>Biochemistry</i> , <b>2018</b> , 57, 6984-6996	3-2	15
26	Structure-based mechanism for early PLP-mediated steps of rabbit cytosolic serine hydroxymethyltransferase reaction. <i>BioMed Research International</i> , <b>2013</b> , 2013, 458571	3	14
25	Study of DNA binding and bending by Bacillus subtilis GabR, a PLP-dependent transcription factor. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2017</b> , 1861, 3474-3489	4	12
24	Asymmetry of the active site loop conformation between subunits of glutamate-1-semialdehyde aminomutase in solution. <i>BioMed Research International</i> , <b>2013</b> , 2013, 353270	3	12
23	Salmonella typhimurium PtsJ is a novel MocR-like transcriptional repressor involved in regulating the vitamin B salvage pathway. <i>FEBS Journal</i> , <b>2017</b> , 284, 466-484	5-7	11
22	Deamidation of asparagine residues in a recombinant serine hydroxymethyltransferase. <i>Archives of Biochemistry and Biophysics</i> , <b>1999</b> , 372, 271-9	4-1	11
21	Biochemical data from the characterization of a new pathogenic mutation of human pyridoxine-5Pphosphate oxidase (PNPO). <i>Data in Brief</i> , <b>2017</b> , 15, 868-875	1-2	9
20	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> , <b>2016</b> , 2016, 4360285 <sup>4</sup>	2-4	9
19	Structural properties of the linkers connecting the N- and C- terminal domains in the MocR bacterial transcriptional regulators. <i>Biochimie Open</i> , <b>2016</b> , 3, 8-18	0	9
18	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> , <b>2015</b> , 30, 336-40	5-6	8
17	Isolation of a Complex Formed Between HemA and HemL, Key Enzymes of Tetrapyrroles Biosynthesis. <i>Frontiers in Molecular Biosciences</i> , <b>2019</b> , 6, 6	5-6	7
16	An Engineered Escherichia coli Strain with Synthetic Metabolism for in-Cell Production of Translationally Active Methionine Derivatives. <i>ChemBioChem</i> , <b>2020</b> , 21, 3525-3538	3-8	7
15	Data from computational analysis of the peptide linkers in the MocR bacterial transcriptional regulators. <i>Data in Brief</i> , <b>2016</b> , 9, 292-313	1-2	7

14	The multifaceted role of vitamin B in cancer: as a model system to investigate DNA damage. <i>Open Biology</i> , <b>2020</b> , 10, 200034	7	6
13	Self-Directed in Cell Production of Methionine Analogue Azidohomoalanine by Synthetic Metabolism and Its Incorporation into Model Proteins. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1728, 127-135	1.4	6
12	Allosteric feedback inhibition of pyridoxine 5Pphosphate oxidase from. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 15593-15603	5.4	5
11	The expression of four pyridoxal kinase (PDXK) human variants in Drosophila impacts on genome integrity. <i>Scientific Reports</i> , <b>2019</b> , 9, 14188	4.9	5
10	Crystallization and preliminary X-ray crystallographic analysis of pyridoxine 5Pphosphate oxidase complexed with flavin mononucleotide. <i>Journal of Structural Biology</i> , <b>1999</b> , 127, 88-91	3.4	5
9	Conserved water molecules in bacterial serine hydroxymethyltransferases. <i>Protein Engineering, Design and Selection</i> , <b>2015</b> , 28, 415-26	1.9	4
8	Interaction of Bacillus subtilis GabR with the gabTD promoter: role of repeated sequences and effect of GABA in transcriptional activation. <i>FEBS Journal</i> , <b>2020</b> , 287, 4952-4970	5.7	4
7	Molecular basis of E. coli L-threonine aldolase catalytic inactivation at low pH. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2015</b> , 1854, 278-83	4	4
6	Molecular characterization of pyridoxine 5Pphosphate oxidase and its pathogenic forms associated with neonatal epileptic encephalopathy. <i>Scientific Reports</i> , <b>2020</b> , 10, 13621	4.9	3
5	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> , <b>2018</b> , 10, 111-125	3.5	3
4	Structural stability of cold-adapted serine hydroxymethyltransferase, a tool for $\beta$ -hydroxy- $\alpha$ -amino acid biosynthesis. <i>Journal of Molecular Catalysis B: Enzymatic</i> , <b>2014</b> , 110, 171-177		1
3	Molecular Defects of Vitamin B6 Metabolism Associated with Neonatal Epileptic Encephalopathy <b>2012</b> ,		1
2	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> , <b>2021</b> , 14,	5.2	1
1	Identification and characterization of the pyridoxal 5Pphosphate allosteric site in Escherichia coli pyridoxine 5Pphosphate oxidase. <i>Journal of Biological Chemistry</i> , <b>2021</b> , 296, 100795	5.4	0