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A model for the regulation of D-3-phosphoglycerate dehydrogenase, a V_{max} -type allosteric enzyme

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#	Paper	IF	Citations
64	New structures of allosteric proteins revealing remarkable conformational changes. <i>Current Opinion in Structural Biology</i> , 1996 , 6, 824-9	8.1	35
63	The mechanism of velocity modulated allosteric regulation in D-3-phosphoglycerate dehydrogenase. Cross-linking adjacent regulatory domains with engineered disulfides mimics effector binding. <i>Journal of Biological Chemistry</i> , 1996 , 271, 13013-7	5.4	32
62	The mechanism of velocity modulated allosteric regulation in D-3-phosphoglycerate dehydrogenase. Site-directed mutagenesis of effector binding site residues. <i>Journal of Biological Chemistry</i> , 1996 , 271, 23235-8	5.4	46
61	Structure and control of pyridoxal phosphate dependent allosteric threonine deaminase. <i>Structure</i> , 1998 , 6, 465-75	5.2	161
60	Glycerol kinase from Escherichia coli and an Ala65-->Thr mutant: the crystal structures reveal conformational changes with implications for allosteric regulation. <i>Structure</i> , 1998 , 6, 1407-18	5.2	49
59	Probing the regulatory domain interface of D-3-phosphoglycerate dehydrogenase with engineered tryptophan residues. <i>Journal of Biological Chemistry</i> , 1998 , 273, 22389-94	5.4	12
58	Deciphering the molecular code of hemoglobin allostery. <i>Advances in Protein Chemistry</i> , 1998 , 51, 185-253		84
57	The contribution of adjacent subunits to the active sites of D-3-phosphoglycerate dehydrogenase. <i>Journal of Biological Chemistry</i> , 1999 , 274, 5357-61	5.4	22
56	Gleaning non-trivial structural, functional and evolutionary information about proteins by iterative database searches. <i>Journal of Molecular Biology</i> , 1999 , 287, 1023-40	6.5	380
55	Removal of the tryptophan 139 side chain in Escherichia coli D-3-phosphoglycerate dehydrogenase produces a dimeric enzyme without cooperative effects. <i>Archives of Biochemistry and Biophysics</i> , 2000 , 375, 171-4	4.1	14
54	Molecular characterization of 3-phosphoglycerate dehydrogenase deficiency--a neurometabolic disorder associated with reduced L-serine biosynthesis. <i>American Journal of Human Genetics</i> , 2000 , 67, 1389-99	11	88
53	Acetohydroxyacid synthase: a proposed structure for regulatory subunits supported by evidence from mutagenesis. <i>Journal of Molecular Biology</i> , 2001 , 307, 465-77	6.5	58
52	Amino acid residue mutations uncouple cooperative effects in Escherichia coli D-3-phosphoglycerate dehydrogenase. <i>Journal of Biological Chemistry</i> , 2001 , 276, 17844-50	5.4	18
51	Specific interactions at the regulatory domain-substrate binding domain interface influence the cooperativity of inhibition and effector binding in Escherichia coli D-3-phosphoglycerate dehydrogenase. <i>Journal of Biological Chemistry</i> , 2001 , 276, 1078-83	5.4	19
50	V490M, a common mutation in 3-phosphoglycerate dehydrogenase deficiency, causes enzyme deficiency by decreasing the yield of mature enzyme. <i>Journal of Biological Chemistry</i> , 2002 , 277, 7136-43	5.4	29
49	A novel ligand-binding domain involved in regulation of amino acid metabolism in prokaryotes. <i>Journal of Biological Chemistry</i> , 2002 , 277, 37464-8	5.4	65
48	Cofactor binding to Escherichia coli D-3-phosphoglycerate dehydrogenase induces multiple conformations which alter effector binding. <i>Journal of Biological Chemistry</i> , 2002 , 277, 39548-53	5.4	19

47	Crystal structure and anion binding in the prokaryotic hydrogenase maturation factor HypF acylphosphatase-like domain. <i>Journal of Molecular Biology</i> , 2002 , 321, 785-96	6.5	62
46	De-regulation of D-3-phosphoglycerate dehydrogenase by domain removal. <i>FEBS Journal</i> , 2002 , 269, 4176-84		14
45	The Lrp family of transcriptional regulators. <i>Molecular Microbiology</i> , 2003 , 48, 287-94	4.1	223
44	The N-terminal domain of the regulatory subunit is sufficient for complete activation of acetohydroxyacid synthase III from Escherichia coli. <i>Journal of Molecular Biology</i> , 2003 , 325, 275-84	6.5	33
43	Ser3p (Yer081wp) and Ser33p (Yil074cp) are phosphoglycerate dehydrogenases in Saccharomyces cerevisiae. <i>Journal of Biological Chemistry</i> , 2003 , 278, 10264-72	5.4	45
42	Hybrid tetramers reveal elements of cooperativity in Escherichia coli D-3-phosphoglycerate dehydrogenase. <i>Journal of Biological Chemistry</i> , 2003 , 278, 18170-6	5.4	12
41	Structural similarity of YbeD protein from Escherichia coli to allosteric regulatory domains. <i>Journal of Bacteriology</i> , 2004 , 186, 8083-8	3.5	10
40	Quantitative relationships of site to site interaction in Escherichia coli D-3-phosphoglycerate dehydrogenase revealed by asymmetric hybrid tetramers. <i>Journal of Biological Chemistry</i> , 2004 , 279, 13452-60	5.4	15
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36	Structures of R- and T-state Escherichia coli aspartokinase III. Mechanisms of the allosteric transition and inhibition by lysine. <i>Journal of Biological Chemistry</i> , 2006 , 281, 31544-52	5.4	58
35	The effect of hinge mutations on effector binding and domain rotation in Escherichia coli D-3-phosphoglycerate dehydrogenase. <i>Journal of Biological Chemistry</i> , 2007 , 282, 18418-18426	5.4	15
34	L-serine and GABA uptake by synaptosomes during postnatal development of rat. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2007 , 146, 499-505	2.6	3
33	Crystal structure of Mycobacterium tuberculosis LrpA, a leucine-responsive global regulator associated with starvation response. <i>Protein Science</i> , 2008 , 17, 159-70	6.3	17
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29	Three serendipitous pathways in <i>E. coli</i> can bypass a block in pyridoxal-5-phosphate synthesis. <i>Molecular Systems Biology</i> , 2010 , 6, 436	12.2	91
28	Allosteric Proteins and Drug Discovery. 2010 , 369-402		
27	Engineering static and dynamic control of synthetic pathways. <i>Cell</i> , 2010 , 140, 19-23	56.2	178
26	L-serine synthesis in the central nervous system: a review on serine deficiency disorders. <i>Molecular Genetics and Metabolism</i> , 2010 , 99, 256-62	3.7	124
25	References. 2010 , 807-843		
24	Construction of <i>Escherichia coli</i> strains producing L-serine from glucose. <i>Biotechnology Letters</i> , 2012 , 34, 1525-30	3	25
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22	High-level production of tetraacetyl phytosphingosine (TAPS) by combined genetic engineering of sphingoid base biosynthesis and L-serine availability in the non-conventional yeast <i>Pichia ciferrii</i> . <i>Metabolic Engineering</i> , 2012 , 14, 172-84	9.7	8
21	Genetic Adaptation of <i>Achromobacter</i> sp. during Persistence in the Lungs of Cystic Fibrosis Patients. <i>PLoS ONE</i> , 2015 , 10, e0136790	3.7	26
20	Structure-guided design of a high affinity inhibitor to human CtBP. <i>ACS Chemical Biology</i> , 2015 , 10, 1118-23	4.7	17
19	Characterization, modification, and overexpression of 3-phosphoglycerate dehydrogenase in <i>Corynebacterium glutamicum</i> for enhancing l-serine production. <i>Annals of Microbiology</i> , 2015 , 65, 929-935	3.2	7
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17	5-Aminolevulinic acid production from inexpensive glucose by engineering the C4 pathway in <i>Escherichia coli</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2017 , 44, 1127-1135	4.2	32
16	Rational design and metabolic analysis of <i>Escherichia coli</i> for effective production of L-tryptophan at high concentration. <i>Applied Microbiology and Biotechnology</i> , 2017 , 101, 559-568	5.7	44
15	Microbial Production of l-Serine from Renewable Feedstocks. <i>Trends in Biotechnology</i> , 2018 , 36, 700-712	15.1	15
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13	D-3-Phosphoglycerate Dehydrogenase. <i>Frontiers in Molecular Biosciences</i> , 2018 , 5, 110	5.6	21
12	Validating the inhibitory effects of d- and l-serine on the enzyme activity of d-3-phosphoglycerate dehydrogenases that are purified from , and human colon. <i>Gut Pathogens</i> , 2019 , 11, 35	5.4	1

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