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## Porphyrin interactions with wild-type and mutant mouse ferrochelatase

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#	Paper	IF	Citations
59	Interplay between an AAA module and an integrin I domain may regulate the function of magnesium chelatase. <i>Journal of Molecular Biology</i> , <b>2001</b> , 311, 111-22	6.5	150
58	Human ferrochelatase: characterization of substrate-iron binding and proton-abstracting residues. <i>Biochemistry</i> , <b>2001</b> , 40, 9821-7	3.2	52
57	Calcium-dependent conformation of a heme and fingerprint peptide of the diheme cytochrome c peroxidase from <i>Paracoccus pantotrophus</i> . <i>Biochemistry</i> , <b>2001</b> , 40, 6570-9	3.2	11
56	Vibrational Analysis of Metalloporphyrins with Electron-Withdrawing NO <sub>2</sub> Substituents at Different Meso Positions. <i>Journal of Physical Chemistry A</i> , <b>2001</b> , 105, 6668-6679	2.8	7
55	Factors determining the orientation of axially coordinated imidazoles in heme proteins. <i>Biochemistry</i> , <b>2001</b> , 40, 7914-28	3.2	56
54	Conformational Distortions of Metalloporphyrins with Electron-Withdrawing NO <sub>2</sub> Substituents at Different Meso Positions. A Structural Analysis by Polarized Resonance Raman Dispersion Spectroscopy and Molecular Mechanics Calculations. <i>Journal of Physical Chemistry A</i> , <b>2001</b> , 105, 6680-6694	2.8	19
53	Protein-coenzyme interactions in adenosylcobalamin-dependent glutamate mutase. <i>Biochemical Journal</i> , <b>2001</b> , 355, 131-7	3.8	18
52	Protein-coenzyme interactions in adenosylcobalamin-dependent glutamate mutase. <i>Biochemical Journal</i> , <b>2001</b> , 355, 131-137	3.8	36
51	Substitution of murine ferrochelatase glutamate-287 with glutamine or alanine leads to porphyrin substrate-bound variants. <i>Biochemical Journal</i> , <b>2001</b> , 356, 217-222	3.8	18
50	Binding of protoporphyrin IX and metal derivatives to the active site of wild-type mouse ferrochelatase at low porphyrin-to-protein ratios. <i>Biochemistry</i> , <b>2002</b> , 41, 8253-62	3.2	31
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48	Metal binding to <i>Saccharomyces cerevisiae</i> ferrochelatase. <i>Biochemistry</i> , <b>2002</b> , 41, 13499-506	3.2	53
47	Do nonplanar distortions of porphyrins bring about strongly red-shifted electronic spectra? Controversy, consensus, new developments, and relevance to chelatases. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 8099-103	16.4	122
46	Metal binding to <i>Bacillus subtilis</i> ferrochelatase and interaction between metal sites. <i>Journal of Biological Inorganic Chemistry</i> , <b>2003</b> , 8, 452-8	3.7	43
45	A continuous anaerobic fluorimetric assay for ferrochelatase by monitoring porphyrin disappearance. <i>Analytical Biochemistry</i> , <b>2003</b> , 318, 18-24	3.1	13
44	Theoretical study on orientations of axially coordinated imidazoles in model systems of cytochromes. <i>Inorganica Chimica Acta</i> , <b>2003</b> , 349, 1-5	2.7	23
43	Origin of the red shifts in the optical absorption bands of nonplanar tetraalkylporphyrins. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 1253-68	16.4	226

42	Nonplanar distortions of bis-base low-spin iron(II)-porphyrinates: absorption and resonance Raman investigations of cross-trans-linked iron(II)-basket-handle porphyrin complexes. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 11616-25	16.4	23
41	The endogenous calcium ions of horseradish peroxidase C are required to maintain the functional nonplanarity of the heme. <i>Biophysical Journal</i> , <b>2003</b> , 84, 2542-52	2.9	41
40	The importance of porphyrin distortions for the ferrochelatase reaction. <i>Journal of Biological Inorganic Chemistry</i> , <b>2003</b> , 8, 273-82	3.7	61
39	Absorption and resonance Raman investigations of ligand rotation and nonplanar heme distortion in bis-base low-spin iron(II)-tetrakis(o-pivalamidophenyl)porphyrin complexes. <i>Inorganic Chemistry</i> , <b>2003</b> , 42, 6081-8	5.1	16
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34	Porphyrin-substrate binding to murine ferrochelatase: effect on the thermal stability of the enzyme. <i>Biochemical Journal</i> , <b>2005</b> , 386, 599-605	3.8	10
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30	The conserved active-site loop residues of ferrochelatase induce porphyrin conformational changes necessary for catalysis. <i>Biochemistry</i> , <b>2006</b> , 45, 2904-12	3.2	28
29	Modulation of inhibition of ferrochelatase by N-methylprotoporphyrin. <i>Biochemical Journal</i> , <b>2006</b> , 399, 21-8	3.8	17
28	Crosstalk between metal ions in <i>Bacillus subtilis</i> ferrochelatase. <i>Journal of Biological Inorganic Chemistry</i> , <b>2006</b> , 11, 325-33	3.7	11
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23	Direct measurement of metal ion chelation in the active site of human ferrochelatase. <i>Biochemistry</i> , <b>2007</b> , 46, 8121-7	3.2	34
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20	Molecular dynamics simulations of mouse ferrochelatase variants: what distorts and orientates the porphyrin?. <i>Journal of Biological Inorganic Chemistry</i> , <b>2009</b> , 14, 1119-28	3.7	4
19	Redox effects on the coordination geometry and heme conformation of bis(N-methylimidazole) complexes of superstructured Fe-porphyrins. A spectroscopic study. <i>Inorganic Chemistry</i> , <b>2009</b> , 48, 10084-92	5.1	2
18	Nickel(II) chelatase variants directly evolved from murine ferrochelatase: porphyrin distortion and kinetic mechanism. <i>Biochemistry</i> , <b>2011</b> , 50, 1535-44	3.2	14
17	68 Ferrochelatase Structure and Reaction Mechanism. <i>Handbook of Porphyrin Science</i> , <b>2011</b> , 49-121	0.3	4
16	Resonance Raman Spectroscopic Examination of Ferrochelatase-induced Porphyrin Distortion. <i>Journal of Porphyrins and Phthalocyanines</i> , <b>2011</b> , 15, 357-363	1.8	10
15	Steric bulkiness of pyrrole substituents and the out-of-plane deformations of porphyrins: nickel(II) octaisopropylporphyrin and its meso-nitro derivative. <i>Journal of Porphyrins and Phthalocyanines</i> , <b>2011</b> , 15, 727-741	1.8	4
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1	Active site architecture of coproporphyrin ferrochelatase with its physiological substrate coproporphyrin III : Propionate interactions and porphyrin core deformation. <b>2023</b> , 32,		1