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Probing the structure of the linker connecting the reductase and heme domains of cytochrome P450BM-3 using site-directed mutagenesis

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#	Paper	IF	Citations
26	The domain architecture of cytochrome P450BM-3. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 7915-21	5.4	36
25	Reconstitution of the fatty acid hydroxylase activity of cytochrome P450BM-3 utilizing its functional domains. <i>Archives of Biochemistry and Biophysics</i> , <b>1997</b> , 340, 231-8	4.1	30
24	Optimizing the stability of single-chain proteins by linker length and composition mutagenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1998</b> , 95, 5929-34	11.5	208
23	Structures of gas-generating heme enzymes: Nitric oxide synthase and heme oxygenase. <i>Advances in Inorganic Chemistry</i> , <b>2000</b> , 51, 243-294	2.1	12
22	Biochemical characterization of rat P450 2C11 fused to rat or bacterial NADPH-P450 reductase domains. <i>Biochemistry</i> , <b>2000</b> , 39, 5196-205	3.2	32
21	Identification of a new class of cytochrome P450 from a Rhodococcus sp. <i>Journal of Bacteriology</i> , <b>2002</b> , 184, 3898-908	3.5	133
20	Catalytically functional flavocytochrome chimeras of P450 BM3 and nitric oxide synthase. <i>Journal of Inorganic Biochemistry</i> , <b>2002</b> , 91, 515-26	4.2	22
19	Role of the interdomain linker probed by kinetics of CO ligation to an endothelial nitric oxide synthase mutant lacking the calmodulin binding peptide (residues 503-517 in bovine). <i>Biochemistry</i> , <b>2003</b> , 42, 6500-6	3.2	16
18	Cytochrome P450/redox partner fusion enzymes: biotechnological and toxicological prospects. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , <b>2007</b> , 3, 847-63	5.5	24
17	Cytochrome P450--redox partner fusion enzymes. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2007</b> , 1770, 345-59	4	160
16	Variations on a (t)heme--novel mechanisms, redox partners and catalytic functions in the cytochrome P450 superfamily. <i>Natural Product Reports</i> , <b>2007</b> , 24, 585-609	15.1	218
15	Some Properties of a Self-Sufficient Cytochrome P-450 Monooxygenase System from Bacillus megaterium Strain ALA2. 289-308		1
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13	P450(BM3) (CYP102A1): connecting the dots. <i>Chemical Society Reviews</i> , <b>2012</b> , 41, 1218-60	58.5	475
12	87 Peroxidase and Heme Thiolate Enzymes. <i>Handbook of Porphyrin Science</i> , <b>2012</b> , 45-109	0.3	
11	Heme enzyme structure and function. <i>Chemical Reviews</i> , <b>2014</b> , 114, 3919-62	68.1	782
10	P-Link: A method for generating multicomponent cytochrome P450 fusions with variable linker length. <i>BioTechniques</i> , <b>2014</b> , 57, 13-20	2.5	20

9	Microbial Cytochromes P450. <b>2015</b> , 261-407		8
8	The Impact of Linker Length on P450 Fusion Constructs: Activity, Stability and Coupling. <i>ChemCatChem</i> , <b>2016</b> , 8, 1591-1597	5.2	20
7	Strategies for the construction of insect P450 fusion enzymes. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , <b>2017</b> , 72, 405-415	1.7	2
6	Reconstitution of full-length P450BM3 with an artificial metal complex by utilising the transpeptidase Sortase A. <i>Chemical Communications</i> , <b>2018</b> , 54, 7892-7895	5.8	17
5	Cryo-EM reveals the architecture of the dimeric cytochrome P450 CYP102A1 enzyme and conformational changes required for redox partner recognition. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 1637-1645	5.4	14
4	Characterization of the structure and interactions of P450 BM3 using hybrid mass spectrometry approaches. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 7595-7607	5.4	5
3	Flavocytochromes: Nature's Electrical Transformers. <b>1998</b> , 165-184		2
2	Insights on intermolecular FMN-heme domain interaction and the role of linker length in cytochrome P450cin fusion proteins. <i>Biological Chemistry</i> , <b>2020</b> , 401, 1249-1255	4.5	2
1	Exploring optimal Taxol CYP725A4 activity in <i>Saccharomyces cerevisiae</i> . <b>2022</b> , 21,		0