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Cytochrome P450: molecular architecture, mechanism, and prospects for rational inhibitor design

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#	Paper	IF	Citations
48	Mechanisms of inhibition of xenobiotic-metabolizing enzymes. <i>Xenobiotica</i> , 1990 , 20, 1129-37	2	8
47	Replacing the carboxy-terminal 28 residues of rabbit liver P-450 (laurate (omega-1)-hydroxylase) with those of P-450 (testosterone 16 alpha-hydroxylase) produces a new stereospecific hydroxylase activity. <i>Biochemical and Biophysical Research Communications</i> , 1990 , 167, 498-503	3.4	24
46	Identification and characterization of an NADPH-cytochrome P450 reductase derived peptide involved in binding to cytochrome P450. <i>Archives of Biochemistry and Biophysics</i> , 1991 , 290, 277-84	4.1	52
45	The sequence homologies of cytochromes P-450 and active-site geometries. <i>Journal of Computer-Aided Molecular Design</i> , 1992 , 6, 235-52	4.2	36
44	Effects of mercury on cytochrome P-450 levels in mouse hepatic microsomes. <i>Journal of Environmental Science and Health Part A: Environmental Science and Engineering</i> , 1993 , 28, 1409-1419		
43	Disposition of azole antifungal agents. II. Hepatic binding and clearance of dichlorophenyl-bis-triazolypropanol (DTP) in the rat. <i>Pharmaceutical Research</i> , 1994 , 11, 951-60	4.5	5
42	Structure Correlation and Ligand/Receptor Interactions. 1994 , 543-603		10
41	A novel cytochrome P450 expressed primarily in brain. <i>Journal of Biological Chemistry</i> , 1995 , 270, 29739-45	4.5	127
40	Stereoselective hydroxylation of norcamphor by cytochrome P450cam. Experimental verification of molecular dynamics simulations. <i>Journal of Biological Chemistry</i> , 1995 , 270, 5326-30	5.4	46
39	Oxygen and xenobiotic reductase activities of cytochrome P450. <i>Critical Reviews in Toxicology</i> , 1995 , 25, 25-65	5.7	196
38	Not just your average structures. <i>Nature Structural Biology</i> , 1996 , 3, 565-6		19
37	Molecular modelling of CYP3A4 from an alignment with CYP102: identification of key interactions between putative active site residues and CYP3A-specific chemicals. <i>Xenobiotica</i> , 1996 , 26, 1067-86	2	87
36	Arginine to lysine 108 substitution in recombinant CYP1A2 abolishes methoxyresorufin metabolism in lymphoblastoid cells. <i>British Journal of Pharmacology</i> , 2002 , 136, 347-52	8.6	14
35	Inhibitors of vitamin D hydroxylases: structure-activity relationships. <i>Journal of Cellular Biochemistry</i> , 2003 , 88, 372-80	4.7	50
34	Cytochrome P450: what have we learned and what are the future issues?. <i>Drug Metabolism Reviews</i> , 2004 , 36, 159-97	7	171
33	Polymeric membranes: the role this support plays in the reactivity of the different generations of metalloporphyrins. <i>Journal of Molecular Catalysis A</i> , 2005 , 229, 137-143		23
32	Modulation of prostaglandin biosynthesis by nitric oxide and nitric oxide donors. <i>Pharmacological Reviews</i> , 2005 , 57, 217-52	22.5	283

31	Non-Michaelis-Menten kinetics in cytochrome P450-catalyzed reactions. <i>Annual Review of Pharmacology and Toxicology</i> , 2005 , 45, 291-310	17.9	154
30	The Drosophila nuclear receptor e75 contains heme and is gas responsive. <i>Cell</i> , 2005 , 122, 195-207	56.2	213
29	Photoaffinity labeling of P450Cam by an imidazole-tethered benzophenone probe. <i>Archives of Biochemistry and Biophysics</i> , 2006 , 445, 95-107	4.1	8
28	Therapeutic targets: progress of their exploration and investigation of their characteristics. <i>Pharmacological Reviews</i> , 2006 , 58, 259-79	22.5	145
27	New ruthenium porphyrin polymeric membranes: Preparation and characterization. <i>Applied Catalysis A: General</i> , 2008 , 335, 37-45	5.1	9
26	Structure prediction and R115866 binding study of human CYP26A1: homology modelling, fold recognition, molecular docking and MD simulations. <i>Molecular Simulation</i> , 2008 , 34, 337-346	2	10
25	7 α -hydroxypregnenolone mediates melatonin action underlying diurnal locomotor rhythms. <i>Journal of Neuroscience</i> , 2008 , 28, 2158-67	6.6	58
24	Theoretical investigations on the hydrolysis pathway of tin verdoheme complexes: elucidation of tin's ring opening inhibition role. <i>Journal of Molecular Modeling</i> , 2009 , 15, 1299-315	2	13
23	Inhibition of arachidonic acid metabolism and its implication on cell proliferation and tumour-angiogenesis. <i>International Immunopharmacology</i> , 2009 , 9, 701-15	5.8	116
22	CYP1B1 expression promotes the proangiogenic phenotype of endothelium through decreased intracellular oxidative stress and thrombospondin-2 expression. <i>Blood</i> , 2009 , 113, 744-54	2.2	90
21	Prolactin increases the synthesis of 7 α -hydroxypregnenolone, a key factor for induction of locomotor activity, in breeding male Newts. <i>Endocrinology</i> , 2010 , 151, 2211-22	4.8	53
20	Nuclear receptor PXR, transcriptional circuits and metabolic relevance. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2011 , 1812, 956-63	6.9	144
19	Thrombospondin-2 and extracellular matrix assembly. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014 , 1840, 2396-402	4	62
18	7 β -Hydroxypregnenolone, a key neuronal modulator of locomotion, stimulates upstream migration by means of the dopaminergic system in salmon. <i>Scientific Reports</i> , 2015 , 5, 12546	4.9	20
17	Oxygen Metabolism in the Lung. 2015 , 355-374		
16	Use of bioconjugation with cytochrome P450 enzymes. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2018 , 1866, 32-51	4	10
15	A Xenobiotic Detoxification Pathway through Transcriptional Regulation in Filamentous Fungi. <i>MBio</i> , 2018 , 9,	7.8	33
14	Ligand Access Channels in Cytochrome P450 Enzymes: A Review. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	38

13	CYP2J2 Molecular Recognition: A New Axis for Therapeutic Design. <i>Pharmacology & Therapeutics</i> , 2020 , 215, 107601	13.9	15
12	Overexpression of three P450 genes is responsible for resistance to novel pyrimidine amines in <i>Magnaporthe oryzae</i> . <i>Pest Management Science</i> , 2020 , 76, 4268-4277	4.6	4
11	Paroxetine-Overview of the Molecular Mechanisms of Action. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	4
10	Genome-wide transcriptional response of the causal soybean sudden death syndrome pathogen <i>Fusarium virguliforme</i> to a succinate dehydrogenase inhibitor fluopyram. <i>Pest Management Science</i> , 2021 ,	4.6	1
9	SEQUENTIAL ELECTRON TRANSFER REACTIONS CATALYZED BY CYTOCHROME P-450 ENZYMES. 1993 , 191-241		28
8	The active sites of cytochromes P450 IA1, IIB1, IIB2, and IIE1. Topological analysis by in situ rearrangement of phenyl-iron complexes.. <i>Journal of Biological Chemistry</i> , 1991 , 266, 19258-19264	5.4	34
7	Reactions and significance of cytochrome P-450 enzymes. <i>Journal of Biological Chemistry</i> , 1991 , 266, 10019-10022	5.4	446
6	Mechanism of androstenedione formation from testosterone and epitestosterone catalyzed by purified cytochrome P-450b.. <i>Journal of Biological Chemistry</i> , 1988 , 263, 17322-17332	5.4	39
5	The presence of an R467K amino acid substitution and loss of allelic variation correlate with an azole-resistant lanosterol 14alpha demethylase in <i>Candida albicans</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 1997 , 41, 1488-94	5.9	228
4	References. 2001 , 164-210		
3	Multiple Forms of Rabbit Cytochrome P450: Comparison of Chemical Physical, Immunological and Biocatalytic Properties. 1991 , 23-54		
2	CYP1B1 deficiency ameliorates obesity and glucose intolerance induced by high fat diet in adult C57BL/6J mice. <i>American Journal of Translational Research (discontinued)</i> , 2015 , 7, 761-71	3	16
1	Structural basis for heme detoxification by an ATP-binding cassette-type efflux pump in gram-positive pathogenic bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119,	11.5	2