

Cytochrome P450 Structure, Function and Clinical Significance

Current Drug Targets

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Sequestration of polyunsaturated fatty acids in membrane phospholipids of <i>Caenorhabditis elegans</i> dauer larva attenuates eicosanoid biosynthesis for prolonged survival. <i>Redox Biology</i> , 2017, 12, 967-977.	9.0	42
2	2,3,4,5-tetrahydroxystilbene-2-O- β -D-glucoside exacerbates acetaminophen-induced hepatotoxicity by inducing hepatic expression of CYP2E1, CYP3A4 and CYP1A2. <i>Scientific Reports</i> , 2017, 7, 16511.	3.3	33
3	The Double-Edged Sword Profile of Redox Signaling: Oxidative Events As Molecular Switches in the Balance between Cell Physiology and Cancer. <i>Chemical Research in Toxicology</i> , 2018, 31, 201-210.	3.3	56
4	Transcriptome analysis of the response of silkworm to drastic changes in ambient temperature. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 10161-10170.	3.6	23
5	Hydroalcoholic Extract and Ethyl Acetate Fraction of <i>Bixa orellana</i> Leaves Decrease the Inflammatory Response to <i>Mycobacterium abscessus</i> Subsp. <i>massiliense</i> . <i>Evidence-based Complementary and Alternative Medicine</i> , 2018, 2018, 1-12.	1.2	5
6	Aflatoxin B1 metabolism: Regulation by phase I and II metabolizing enzymes and chemoprotective agents. <i>Mutation Research - Reviews in Mutation Research</i> , 2018, 778, 79-89.	5.5	127
7	In vitrometabolic mapping of neobavaisoflavone in human cytochromes P450 and UDP-glucuronosyltransferase enzymes by ultra high-performance liquid chromatography coupled with quadrupole time-of-flight tandem mass spectrometry. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 158, 351-360.	2.8	10
8	Hydrogen Peroxide and Metalloporphyrins in Oxidation Catalysis: Old Dogs with Some New Tricks. <i>ChemCatChem</i> , 2018, 10, 3615-3635.	3.7	42
10	Semiconducting Polymer Nanobiocatalysts for Photoactivation of Intracellular Redox Reactions. <i>Angewandte Chemie</i> , 2018, 130, 13672-13676.	2.0	7
11	Semiconducting Polymer Nanobiocatalysts for Photoactivation of Intracellular Redox Reactions. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13484-13488.	13.8	32
12	Regulation of cytochrome P450 gene expression by ketamine: a review. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2018, 14, 709-720.	3.3	9
13	Application of pharmacogenetics in clinical practice: problems and solutions. <i>Journal of Neural Transmission</i> , 2019, 126, 109-113.	2.8	3
14	A cytochrome P450 from the mustard leaf beetles hydroxylates geraniol, a key step in iridoid biosynthesis. <i>Insect Biochemistry and Molecular Biology</i> , 2019, 113, 103212.	2.7	11
15	Transcriptome-Based Identification and Molecular Evolution of the Cytochrome P450 Genes and Expression Profiling under Dimethoate Treatment in Amur Stickleback (<i>Pungitius sinensis</i>). <i>Animals</i> , 2019, 9, 873.	2.3	6
16	Nutraceuticals™ Novel Formulations: The Good, the Bad, the Unknown and Patents Involved. <i>Recent Patents on Drug Delivery and Formulation</i> , 2019, 13, 105-156.	2.1	83
17	Biochemical studies of adiponectin gene polymorphism in patients with obesity in Egyptians. <i>Archives of Physiology and Biochemistry</i> , 2022, 128, 43-50.	2.1	6
18	Mechanistic Insights into the Directing Effect of Thr303 in Ethanol Oxidation by Cytochrome P450 2E1. <i>ACS Catalysis</i> , 2019, 9, 4892-4901.	11.2	11
19	Spin Interconversion of Heme-Peroxo-Copper Complexes Facilitated by Intramolecular Hydrogen-Bonding Interactions. <i>Journal of the American Chemical Society</i> , 2019, 141, 4936-4951.	13.7	13

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20	The Concept of an Ideal Antibiotic: Implications for Drug Design. <i>Molecules</i> , 2019, 24, 892.	3.8	207
21	Insights into the Genomics of Clownfish Adaptive Radiation: Genetic Basis of the Mutualism with Sea Anemones. <i>Genome Biology and Evolution</i> , 2019, 11, 869-882.	2.5	34
22	Is there adaptation in the human genome for taste perception and phase I biotransformation?. <i>BMC Evolutionary Biology</i> , 2019, 19, 39.	3.2	11
23	Multiscale Simulations of Biological Membranes: The Challenge To Understand Biological Phenomena in a Living Substance. <i>Chemical Reviews</i> , 2019, 119, 5607-5774.	47.7	209
24	Bioengineered miR-27b-3p and miR-328-3p modulate drug metabolism and disposition via the regulation of target ADME gene expression. <i>Acta Pharmaceutica Sinica B</i> , 2019, 9, 639-647.	12.0	54
25	Comprehensive analysis of DNA methylation and gene expression profiles in cholangiocarcinoma. <i>Cancer Cell International</i> , 2019, 19, 352.	4.1	47
26	Interactions of drug-metabolizing enzymes with the Chinese herb <i>Psoraleae Fructus</i> . <i>Chinese Journal of Natural Medicines</i> , 2019, 17, 858-870.	1.3	32
27	Circulating Extracellular Vesicles Containing Xenobiotic Metabolizing CYP Enzymes and Their Potential Roles in Extrahepatic Cells Via Cell-Cell Interactions. <i>International Journal of Molecular Sciences</i> , 2019, 20, 6178.	4.1	28
28	Computational methods and tools to predict cytochrome P450 metabolism for drug discovery. <i>Chemical Biology and Drug Design</i> , 2019, 93, 377-386.	3.2	109
29	Non-invasive measurement of glucocorticoids: Advances and problems. <i>Physiology and Behavior</i> , 2019, 199, 229-243.	2.1	367
30	Aldehyde toxicity and metabolism: the role of aldehyde dehydrogenases in detoxification, drug resistance and carcinogenesis. <i>Drug Metabolism Reviews</i> , 2019, 51, 42-64.	3.6	113
31	A new strategy for triggering photocatalytic activity of Cytochrome P450 by coupling of semiconductors. <i>Chemical Engineering Journal</i> , 2019, 358, 58-66.	12.7	12
32	Cytochrome P450: genotype to phenotype. <i>Xenobiotica</i> , 2020, 50, 9-18.	1.1	67
33	Human CYP1A1 inhibition by flavonoids. <i>Toxicology in Vitro</i> , 2020, 62, 104681.	2.4	20
34	Comparative genomics reveal shared genomic changes in syngnathid fishes and signatures of genetic convergence with placental mammals. <i>National Science Review</i> , 2020, 7, 964-977.	9.5	32
35	3D spheroids generated on carbon nanotube-functionalized fibrous scaffolds for drug metabolism and toxicity screening. <i>Biomaterials Science</i> , 2020, 8, 426-437.	5.4	5
36	Electrochemical oxidation of estrogens as a method for CYP19A1 (aromatase) electrocatalytic activity determination. <i>Electrochimica Acta</i> , 2020, 333, 135539.	5.2	14
37	Comparison of the toxicity of sulfur mustard and its oxidation products in vitro. <i>Toxicology Letters</i> , 2020, 321, 69-72.	0.8	9

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38	Influence of nanoparticles on liver tissue and hepatic functions: A review. Toxicology, 2020, 430, 152344.	4.2	32
39	Oxidation and Reduction of Biological Material. , 2020, , 55-97.		0
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41	Transcriptomic and metabolomic landscape of the molecular effects of glyphosate commercial formulation on <i>Apis mellifera ligustica</i> and <i>Apis cerana cerana</i> . Science of the Total Environment, 2020, 744, 140819.	8.0	39
42	Mechanistic studies on the drug metabolism and toxicity originating from cytochromes P450. Drug Metabolism Reviews, 2020, 52, 366-394.	3.6	18
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44	Pharmacogenomic Biomarkers and Their Applications in Psychiatry. Genes, 2020, 11, 1445.	2.4	19
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49	Dissecting the Cytochrome P450 OleP Substrate Specificity: Evidence for a Preferential Substrate. Biomolecules, 2020, 10, 1411.	4.0	6
50	Environmental Enrichment Attenuates Oxidative Stress and Alters Detoxifying Enzymes in an A53T α -Synuclein Transgenic Mouse Model of Parkinson's Disease. Antioxidants, 2020, 9, 928.	5.1	13
51	Antileishmanial activity of 4-phenyl-1-[2-(phthalimido-2-yl)ethyl]-1H-1,2,3-triazole (PT4) derivative on <i>Leishmania amazonensis</i> and <i>Leishmania braziliensis</i> : In silico ADMET, in vitro activity, docking and molecular dynamic simulations. Bioorganic Chemistry, 2020, 105, 104437.	4.1	15
52	Fumonisin B1 exposure triggers intestinal tract injury via activating nuclear xenobiotic receptors and attracting inflammation response. Environmental Pollution, 2020, 267, 115461.	7.5	24
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57	Protective Effects of Polyphenols Present in Mediterranean Diet on Endothelial Dysfunction. <i>Oxidative Medicine and Cellular Longevity</i> , 2020, 2020, 1-10.	4.0	22
58	Emulating Docking Results Using a Deep Neural Network: A New Perspective for Virtual Screening. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 4246-4262.	5.4	22
59	Interpretation and Understanding of Clinical Drug Interactions Between Azoles and Immunosuppressants in Solid Organ Transplant Recipients. <i>Current Fungal Infection Reports</i> , 2020, 14, 391-396.	2.6	1
60	Genotoxic Effects of Cylindrospermopsin, Microcystin-LR and Their Binary Mixture in Human Hepatocellular Carcinoma (HepG2) Cell Line. <i>Toxins</i> , 2020, 12, 778.	3.4	14
61	Transcriptome and proteomics-based analysis to investigate the regulatory mechanism of silk gland differences between reciprocal cross silkworm, <i>Bombyx mori</i> . <i>Journal of Asia-Pacific Entomology</i> , 2020, 23, 1101-1113.	0.9	1
62	Late-Stage Lead Diversification Coupled with Quantitative Nuclear Magnetic Resonance Spectroscopy to Identify New Structure-Activity Relationship Vectors at Nanomole-Scale Synthesis: Application to Loratadine, a Human Histamine H ₁ Receptor Inverse Agonist. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 7268-7292.	6.4	21
64	Iron and Chelation in Biochemistry and Medicine: New Approaches to Controlling Iron Metabolism and Treating Related Diseases. <i>Cells</i> , 2020, 9, 1456.	4.1	84
65	Carbon-fluorine bond cleavage mediated by metalloenzymes. <i>Chemical Society Reviews</i> , 2020, 49, 4906-4925.	38.1	61
66	All Roads Lead to the Liver: Metal Nanoparticles and Their Implications for Liver Health. <i>Small</i> , 2020, 16, e2000153.	10.0	70
67	Quantitative Transcriptional Biomarkers of Xenobiotic Receptor Activation in Rat Liver for the Early Assessment of Drug Safety Liabilities. <i>Toxicological Sciences</i> , 2020, 175, 98-112.	3.1	20
68	Selective Enzymatic Oxidation of Silanes to Silanols. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15507-15511.	13.8	48
69	CYP2J2 Modulates Diverse Transcriptional Programs in Adult Human Cardiomyocytes. <i>Scientific Reports</i> , 2020, 10, 5329.	3.3	17
70	Mertansine Inhibits mRNA Expression and Enzyme Activities of Cytochrome P450s and Uridine 5'-Diphospho-Glucuronosyltransferases in Human Hepatocytes and Liver Microsomes. <i>Pharmaceutics</i> , 2020, 12, 220.	4.5	3
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73	Sensing cytochrome P450 1A1 activity by a resorufin-based isoform-specific fluorescent probe. <i>Chinese Chemical Letters</i> , 2020, 31, 2945-2949.	9.0	16
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75	Evodiamine and rutaecarpine from <i>Tetradium ruticarpum</i> in the treatment of liver diseases. <i>Phytomedicine</i> , 2020, 68, 153180.	5.3	45
76	A Comparative Analysis of Cytochrome P450 Activities in Paired Liver and Small Intestinal Samples from Patients with Obesity. <i>Drug Metabolism and Disposition</i> , 2020, 48, 8-17.	3.3	27
77	Precision Medicine in Non-Communicable Diseases. <i>High-Throughput</i> , 2020, 9, 3.	4.4	9
78	Discovery of potential asthma targets based on the clinical efficacy of Traditional Chinese Medicine formulas. <i>Journal of Ethnopharmacology</i> , 2020, 252, 112635.	4.1	24
79	Murburn concept: a paradigm shift in cellular metabolism and physiology. <i>Biomolecular Concepts</i> , 2020, 11, 7-22.	2.2	25
80	Effects of osthon on activity, mRNA and protein expression of Cyp3a in rats in vivo. <i>Biopharmaceutics and Drug Disposition</i> , 2020, 41, 64-71.	1.9	5
81	<i>In vitro</i> effects of peimine on the activity of cytochrome P450 enzymes. <i>Xenobiotica</i> , 2020, 50, 1202-1207.	1.1	4
82	Selective Enzymatic Oxidation of Silanes to Silanols. <i>Angewandte Chemie</i> , 2020, 132, 15637-15641.	2.0	9
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84	Pharmacokinetic-Based Drug-Drug Interactions with Anaplastic Lymphoma Kinase Inhibitors: A Review. <i>Drug Design, Development and Therapy</i> , 2020, Volume 14, 1663-1681.	4.3	29
85	Inhibition of cytochrome P450 2B6 by <i>Astragalus</i> extract mixture HT042. <i>Toxicological Research</i> , 2020, 36, 195-201.	2.1	1
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87	In vitro inhibitory effects of cepharanthine on human liver cytochrome P450 enzymes. <i>Pharmaceutical Biology</i> , 2020, 58, 247-252.	2.9	9
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89	The pharmacological activity of berberine, a review for liver protection. <i>European Journal of Pharmacology</i> , 2021, 890, 173655.	3.5	51
90	Synthesis, molecular docking, and in silico ADME/Tox profiling studies of new 1-aryl-5-(3-azidopropyl)indol-4-ones: Potential inhibitors of SARS CoV-2 main protease. <i>Bioorganic Chemistry</i> , 2021, 106, 104497.	4.1	67
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92	A new parameter in multiple myeloma: CYP3A4*1B single nucleotide polymorphism. <i>Annals of Hematology</i> , 2021, 100, 421-427.	1.8	3

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95	Modulatory Effects of Benjakul Extract on Rat Hepatic Cytochrome P450 Enzymes. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
96	Cytochrome P450 enzymes in fungal natural product biosynthesis. <i>Natural Product Reports</i> , 2021, 38, 1072-1099.	10.3	84
97	Rational Design of CYP3A4 Inhibitors: A One-Atom Linker Elongation in Ritonavir-Like Compounds Leads to a Marked Improvement in the Binding Strength. <i>International Journal of Molecular Sciences</i> , 2021, 22, 852.	4.1	15
98	Hepatic metabolic regulation by nuclear factor E4BP4. <i>Journal of Molecular Endocrinology</i> , 2021, 66, R15-R21.	2.5	11
99	Analytical chemistry, formation, mitigation, and risk assessment of polycyclic aromatic hydrocarbons: From food processing to <i>in vivo</i> metabolic transformation. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2021, 20, 1422-1456.	11.7	46
100	Antraquinones inhibit cytochromes P450 enzyme activity in silico and in vitro. <i>Journal of Applied Toxicology</i> , 2021, 41, 1438-1445.	2.8	11
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103	Baicalein inhibits the pharmacokinetics of simvastatin in rats <i>via</i> regulating the activity of CYP3A4. <i>Pharmaceutical Biology</i> , 2021, 59, 878-881.	2.9	4
104	Pharmacokinetic drug interactions of integrase strand transfer inhibitors. <i>Current Research in Pharmacology and Drug Discovery</i> , 2021, 2, 100044.	3.6	13
105	Toward Interprofessional Education of Pharmacogenomics: An Interdisciplinary Assessment. <i>Pharmacology</i> , 2021, 106, 534-541.	2.2	4
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107	Pharmacokinetic Estimation Models-based Approach to Predict Clinical Implications for CYP Induction by Calcitriol in Human Cryopreserved Hepatocytes and HepaRG Cells. <i>Pharmaceutics</i> , 2021, 13, 181.	4.5	5
108	Screening of binding proteins that interact with two components of the HOG MAPK pathway by the yeast two-hybrid method in <i>Colletotrichum siamense</i> . <i>European Journal of Plant Pathology</i> , 2021, 159, 949-958.	1.7	2
109	Antioxidant-Rich <i>Woodfordia fruticosa</i> Leaf Extract Alleviates Depressive-Like Behaviors and Impede Hyperglycemia. <i>Plants</i> , 2021, 10, 287.	3.5	21
110	A systematic review of possible interactions for herbal medicines and dietary supplements used concomitantly with disease-modifying or symptom-alleviating multiple sclerosis drugs. <i>Phytotherapy Research</i> , 2021, 35, 3610-3631.	5.8	12

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112	Anatomical distribution and expression of <scp>CYP</scp> in humans: Neuropharmacological implications. Drug Development Research, 2021, 82, 628-667.	2.9	11
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114	Associations Between Cytochrome P450 (CYP) Gene Single-Nucleotide Polymorphisms and Second-to-Fourth Digit Ratio in Chinese University Students. Medical Science Monitor, 2021, 27, e930591.	1.1	6
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130	Electrospun Microfibers Modulate Intracellular Amino Acids in Liver Cells via Integrin β 1. <i>Bioengineering</i> , 2021, 8, 88.	3.5	2
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133	Effects of Flutriafol Fungicide on the Lipid Accumulation in Human Liver Cells and Rat Liver. <i>Foods</i> , 2021, 10, 1346.	4.3	6
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141	Metabolites Identification of Chemical Constituents From the Eggplant (<i>Solanum melongena</i> L.) Calyx in Rats by UPLC/ESI/qTOF-MS Analysis and Their Cytotoxic Activities. <i>Frontiers in Pharmacology</i> , 2021, 12, 655008.	3.5	6
142	Genetic Findings as the Potential Basis of Personalized Pharmacotherapy in Phelan-McDermid Syndrome. <i>Genes</i> , 2021, 12, 1192.	2.4	9
143	Distribution of alleles, genotypes and haplotypes of the CYP2B6 (rs3745274; rs2279343) and CYP3A4 (rs2740574) genes in the Malian population. <i>Medicine (United States)</i> , 2021, 100, e26614.	1.0	1
145	A Guidance for Concomitant Drug Reconciliation Prior to Allogeneic Hematopoietic Cell Transplantation in Children and Young Adults. <i>Frontiers in Pediatrics</i> , 2021, 9, 713091.	1.9	2
146	Considerações sobre interações entre medicamentos usados no tratamento de linfomas e na terapia experimental da COVID-19. <i>Research, Society and Development</i> , 2021, 10, e18910917962.	0.1	0
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149	The inhibitory effect of 225 frequently-used traditional Chinese medicines for CYP3A4 metabolic enzyme by isoform-specific probe. <i>FÄ-toterapÄ-Äç</i> , 2021, 152, 104858.	2.2	6
150	Assessment of glibenclamide pharmacokinetics in poloxamer 407-induced hyperlipidemic rats. <i>Saudi Pharmaceutical Journal</i> , 2021, 29, 719-723.	2.7	3
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