

F Peter Guengerich

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556
papers

39,935
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97
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180
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574
ext. papers

42,650
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
556	The P450 superfamily: update on new sequences, gene mapping, accession numbers, early trivial names of enzymes, and nomenclature. <i>DNA and Cell Biology</i> , 1993 , 12, 1-51	3.6	1461
555	Common and uncommon cytochrome P450 reactions related to metabolism and chemical toxicity. <i>Chemical Research in Toxicology</i> , 2001 , 14, 611-50	4	1303
554	Cytochrome p450 and chemical toxicology. <i>Chemical Research in Toxicology</i> , 2008 , 21, 70-83	4	1124
553	Role of human cytochrome P-450 IIE1 in the oxidation of many low molecular weight cancer suspects. <i>Chemical Research in Toxicology</i> , 1991 , 4, 168-79	4	1082
552	Purification and characterization of liver microsomal cytochromes p-450: electrophoretic, spectral, catalytic, and immunochemical properties and inducibility of eight isozymes isolated from rats treated with phenobarbital or beta-naphthoflavone. <i>Biochemistry</i> , 1982 , 21, 6019-30	3.2	1011
551	Cytochrome P-450 3A4: regulation and role in drug metabolism. <i>Annual Review of Pharmacology and Toxicology</i> , 1999 , 39, 1-17	17.9	1010
550	The P450 superfamily: update on new sequences, gene mapping, and recommended nomenclature. <i>DNA and Cell Biology</i> , 1991 , 10, 1-14	3.6	979
549	Oxidation of toxic and carcinogenic chemicals by human cytochrome P-450 enzymes. <i>Chemical Research in Toxicology</i> , 1991 , 4, 391-407	4	918
548	Mapping the genetic architecture of gene expression in human liver. <i>PLoS Biology</i> , 2008 , 6, e107	9.7	768
547	The P450 gene superfamily: recommended nomenclature. <i>DNA and Cell Biology</i> , 1987 , 6, 1-11		720
546	Regulation of rat hepatic cytochrome P-450: age-dependent expression, hormonal imprinting, and xenobiotic inducibility of sex-specific isoenzymes. <i>Biochemistry</i> , 1985 , 24, 4409-17	3.2	553
545	Hydroxylation of chlorzoxazone as a specific probe for human liver cytochrome P-450IIE1. <i>Chemical Research in Toxicology</i> , 1990 , 3, 566-73	4	486
544	Chemical mechanisms of catalysis by cytochromes P-450: a unified view. <i>Accounts of Chemical Research</i> , 1984 , 17, 9-16	24.3	454
543	Cytochrome P450s and other enzymes in drug metabolism and toxicity. <i>AAPS Journal</i> , 2006 , 8, E101-11	3.7	421
542	Estimation of isozymes of microsomal cytochrome P-450 in rats, rabbits, and humans using immunochemical staining coupled with sodium dodecyl sulfate-polyacrylamide gel electrophoresis. <i>Biochemistry</i> , 1982 , 21, 1698-706	3.2	406
541	Cytochrome P450 enzymes involved in acetaminophen activation by rat and human liver microsomes and their kinetics. <i>Chemical Research in Toxicology</i> , 1993 , 6, 511-8	4	343
540	Cooperativity in oxidations catalyzed by cytochrome P450 3A4. <i>Biochemistry</i> , 1997 , 36, 370-81	3.2	340

539	Complex reactions catalyzed by cytochrome P450 enzymes. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2007 , 1770, 314-29	4	327
538	Cytochromes P450, drugs, and diseases. <i>Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics</i> , 2003 , 3, 194-204		306
537	Oxidation of 4-aryl- and 4-alkyl-substituted 2,6-dimethyl-3,5-bis(alkoxycarbonyl)-1,4-dihydropyridines by human liver microsomes and immunochemical evidence for the involvement of a form of cytochrome P-450. <i>Journal of Medicinal Chemistry</i> , 1986 , 29, 1596-603	8.3	303
536	Enzymatic activation of chemicals to toxic metabolites. <i>CRC Critical Reviews in Toxicology</i> , 1985 , 14, 259-307		268
535	Mechanism-based inactivation of human liver microsomal cytochrome P-450 IIIA4 by gestodene. <i>Chemical Research in Toxicology</i> , 1990 , 3, 363-71	4	260
534	Drug metabolism by <i>Escherichia coli</i> expressing human cytochromes P450. <i>Nature Biotechnology</i> , 1997 , 15, 784-8	44.5	258
533	Elucidating mechanisms of drug-induced toxicity. <i>Nature Reviews Drug Discovery</i> , 2005 , 4, 410-20	64.1	239
532	Oxidation of indole by cytochrome P450 enzymes. <i>Biochemistry</i> , 2000 , 39, 13817-24	3.2	239
531	Oxidation of dihydropyridine calcium channel blockers and analogues by human liver cytochrome P-450 IIIA4. <i>Journal of Medicinal Chemistry</i> , 1991 , 34, 1838-44	8.3	236
530	Survey of Human Oxidoreductases and Cytochrome P450 Enzymes Involved in the Metabolism of Xenobiotic and Natural Chemicals. <i>Chemical Research in Toxicology</i> , 2015 , 28, 38-42	4	226
529	Unusual cytochrome p450 enzymes and reactions. <i>Journal of Biological Chemistry</i> , 2013 , 288, 17065-73	5.4	225
528	Measurement of cytochrome P450 and NADPH-cytochrome P450 reductase. <i>Nature Protocols</i> , 2009 , 4, 1245-51	18.8	224
527	Elucidation of distinct ligand binding sites for cytochrome P450 3A4. <i>Biochemistry</i> , 2000 , 39, 5929-39	3.2	221
526	Cytochrome P450 activation of arylamines and heterocyclic amines. <i>Annual Review of Pharmacology and Toxicology</i> , 2005 , 45, 27-49	17.9	214
525	Mechanisms of cytochrome P-450 catalysis. <i>FASEB Journal</i> , 1990 , 4, 2453-9	0.9	210
524	Oxidation of trichloroethylene by liver microsomal cytochrome P-450: evidence for chlorine migration in a transition state not involving trichloroethylene oxide. <i>Biochemistry</i> , 1982 , 21, 1090-7	3.2	208
523	Catalytic activities of human liver cytochrome P-450 IIIA4 expressed in <i>Saccharomyces cerevisiae</i> . <i>Biochemistry</i> , 1990 , 29, 11280-92	3.2	207
522	Roles of NADPH-P450 reductase and apo- and holo-cytochrome b5 on xenobiotic oxidations catalyzed by 12 recombinant human cytochrome P450s expressed in membranes of <i>Escherichia coli</i> . <i>Protein Expression and Purification</i> , 2002 , 24, 329-37	2	201

521	Enzymatic oxidation of xenobiotic chemicals. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 1990 , 25, 97-153	8.7	200
520	Applying mechanisms of chemical toxicity to predict drug safety. <i>Chemical Research in Toxicology</i> , 2007 , 20, 344-69	4	197
519	Systematic genetic and genomic analysis of cytochrome P450 enzyme activities in human liver. <i>Genome Research</i> , 2010 , 20, 1020-36	9.7	193
518	Oxidation of aflatoxin B1 by bacterial recombinant human cytochrome P450 enzymes. <i>Chemical Research in Toxicology</i> , 1995 , 8, 218-25	4	193
517	Activation of procarcinogens by human cytochrome P450 enzymes. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1998 , 400, 201-13	3.3	192
516	Characterization of human cytochrome P450 enzymes. <i>FASEB Journal</i> , 1992 , 6, 745-8	0.9	192
515	Purification and characterization of six cytochrome P-450 isozymes from human liver microsomes. <i>Biochemistry</i> , 1983 , 22, 5375-83	3.2	191
514	Human Cytochrome P450 Enzymes 2005 , 377-530		189
513	Contributions of human enzymes in carcinogen metabolism. <i>Chemical Research in Toxicology</i> , 2012 , 25, 1316-83	4	188
512	Oxidation of benzo[a]pyrene by recombinant human cytochrome P450 enzymes. <i>Chemical Research in Toxicology</i> , 1995 , 8, 136-42	4	187
511	Metabolism of chemical carcinogens. <i>Carcinogenesis</i> , 2000 , 21, 345-51	4.6	185
510	Cytochrome P450 enzymes in the generation of commercial products. <i>Nature Reviews Drug Discovery</i> , 2002 , 1, 359-66	64.1	181
509	Mechanisms of drug toxicity and relevance to pharmaceutical development. <i>Drug Metabolism and Pharmacokinetics</i> , 2011 , 26, 3-14	2.2	173
508	Mechanisms of cytochrome P450 substrate oxidation: MiniReview. <i>Journal of Biochemical and Molecular Toxicology</i> , 2007 , 21, 163-8	3.4	172
507	Cytochrome P450: what have we learned and what are the future issues?. <i>Drug Metabolism Reviews</i> , 2004 , 36, 159-97	7	171
506	Cytochrome P450 oxidations in the generation of reactive electrophiles: epoxidation and related reactions. <i>Archives of Biochemistry and Biophysics</i> , 2003 , 409, 59-71	4.1	169
505	Oxidation-reduction properties of rat liver cytochromes P-450 and NADPH-cytochrome p-450 reductase related to catalysis in reconstituted systems. <i>Biochemistry</i> , 1983 , 22, 2811-20	3.2	169
504	Recent Structural Insights into Cytochrome P450 Function. <i>Trends in Pharmacological Sciences</i> , 2016 , 37, 625-640	13.2	166

503	Activation of heterocyclic aromatic amines by rat and human liver microsomes and by purified rat and human cytochrome P450 1A2. <i>Chemical Research in Toxicology</i> , 1998 , 11, 925-36	4	166
502	Glutathione conjugation of aflatoxin B1 exo- and endo-epoxides by rat and human glutathione S-transferases. <i>Chemical Research in Toxicology</i> , 1992 , 5, 470-8	4	165
501	Kinetics of ferric cytochrome P450 reduction by NADPH-cytochrome P450 reductase: rapid reduction in the absence of substrate and variations among cytochrome P450 systems. <i>Biochemistry</i> , 1997 , 36, 14741-50	3.2	158
500	Roles of cytochromes P450 1A2 and 3A4 in the oxidation of estradiol and estrone in human liver microsomes. <i>Chemical Research in Toxicology</i> , 1998 , 11, 659-65	4	158
499	Inhibition of human cytochrome P450 1A1-, 1A2-, and 1B1-mediated activation of procarcinogens to genotoxic metabolites by polycyclic aromatic hydrocarbons. <i>Chemical Research in Toxicology</i> , 2006 , 19, 288-94	4	152
498	DNA Adduction by the Potent Carcinogen Aflatoxin B1: Mechanistic Studies. <i>Journal of the American Chemical Society</i> , 1994 , 116, 1603-1609	16.4	152
497	Enzymatic oxidation of ethyl carbamate to vinyl carbamate and its role as an intermediate in the formation of 1,N6-ethenoadenosine. <i>Chemical Research in Toxicology</i> , 1991 , 4, 413-21	4	151
496	Structural analyses of sterol 14 α -demethylase complexed with azole drugs address the molecular basis of azole-mediated inhibition of fungal sterol biosynthesis. <i>Journal of Biological Chemistry</i> , 2017 , 292, 6728-6743	5.4	144
495	Mechanism of cytochrome P-450 inhibition by cyclopropylamines. <i>Journal of the American Chemical Society</i> , 1982 , 104, 2050-2052	16.4	143
494	Metabolism of benzo[a]pyrene to trans-7,8-dihydroxy-7, 8-dihydrobenzo[a]pyrene by recombinant human cytochrome P450 1B1 and purified liver epoxide hydrolase. <i>Chemical Research in Toxicology</i> , 1999 , 12, 623-9	4	142
493	Development of a pharmacophore for inhibition of human liver cytochrome P-450 2D6: molecular modeling and inhibition studies. <i>Journal of Medicinal Chemistry</i> , 1993 , 36, 1136-45	8.3	139
492	Evidence for a 1-electron oxidation mechanism in N-dealkylation of N,N-dialkylanilines by cytochrome P450 2B1. Kinetic hydrogen isotope effects, linear free energy relationships, comparisons with horseradish peroxidase, and studies with oxygen surrogates. <i>Journal of Biological Chemistry</i> , 1991 , 266, 27331-9	5.4	137
491	Lack of electron transfer from cytochrome b5 in stimulation of catalytic activities of cytochrome P450 3A4. Characterization of a reconstituted cytochrome P450 3A4/NADPH-cytochrome P450 reductase system and studies with apo-cytochrome b5. <i>Journal of Biological Chemistry</i> , 1996 , 271, 27438-44	5.4	136
490	Destruction of heme and hemoproteins mediated by liver microsomal reduced nicotinamide adenine dinucleotide phosphate-cytochrome P-450 reductase. <i>Biochemistry</i> , 1978 , 17, 3633-9	3.2	135
489	DNA adduct bypass polymerization by <i>Sulfolobus solfataricus</i> DNA polymerase Dpo4: analysis and crystal structures of multiple base pair substitution and frameshift products with the adduct 1,N2-ethenoguanine. <i>Journal of Biological Chemistry</i> , 2005 , 280, 29750-64	5.4	132
488	Rate-determining steps in phenacetin oxidations by human cytochrome P450 1A2 and selected mutants. <i>Biochemistry</i> , 2000 , 39, 11319-29	3.2	132
487	Mechanisms of Cytochrome P450-Catalyzed Oxidations. <i>ACS Catalysis</i> , 2018 , 8, 10964-10976	13.1	130
486	Roles of divalent metal ions in oxidations catalyzed by recombinant cytochrome P450 3A4 and replacement of NADPH-cytochrome P450 reductase with other flavoproteins, ferredoxin, and oxygen surrogates. <i>Biochemistry</i> , 1995 , 34, 8380-9	3.2	129

485	Characterization of the enzymatic and nonenzymatic peroxidative degradation of iron porphyrins and cytochrome P-450 heme. <i>Biochemistry</i> , 1985 , 24, 3254-63	3.2	127
484	Binding of two flavin substrate molecules, oxidative coupling, and crystal structure of <i>Streptomyces coelicolor</i> A3(2) cytochrome P450 158A2. <i>Journal of Biological Chemistry</i> , 2005 , 280, 11599-607	5.4	126
483	Expression of cytochrome P-450 enzymes in cultured human hepatocytes. <i>FEBS Journal</i> , 1990 , 191, 437-44		125
482	Kinetics and thermodynamics of ligand binding by cytochrome P450 3A4. <i>Journal of Biological Chemistry</i> , 2006 , 281, 9127-36	5.4	123
481	Translesion synthesis across bulky N2-alkyl guanine DNA adducts by human DNA polymerase kappa. <i>Journal of Biological Chemistry</i> , 2006 , 281, 21062-21072	5.4	123
480	Expression of cytochromes P450 1A1 and 1B1 in human lung from smokers, non-smokers, and ex-smokers. <i>Toxicology and Applied Pharmacology</i> , 2004 , 199, 210-9	4.6	123
479	Oxidation of substituted N,N-dimethylanilines by cytochrome P-450: estimation of the effective oxidation-reduction potential of cytochrome P-450. <i>Biochemistry</i> , 1989 , 28, 2071-7	3.2	122
478	Cytochrome P450 1B1: a target for inhibition in anticarcinogenesis strategies. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2003 , 523-524, 173-82	3.3	116
477	Formation and Cleavage of C-C Bonds by Enzymatic Oxidation-Reduction Reactions. <i>Chemical Reviews</i> , 2018 , 118, 6573-6655	68.1	115
476	Activation of vinyl chloride to covalently bound metabolites: roles of 2-chloroethylene oxide and 2-chloroacetaldehyde. <i>Biochemistry</i> , 1979 , 18, 5177-82	3.2	114
475	Spectral intermediates in the reaction of oxygen with purified liver microsomal cytochrome P-450. <i>Biochemical and Biophysical Research Communications</i> , 1976 , 70, 951-6	3.4	114
474	Efficient and high fidelity incorporation of dCTP opposite 7,8-dihydro-8-oxodeoxyguanosine by <i>Sulfolobus solfataricus</i> DNA polymerase Dpo4. <i>Journal of Biological Chemistry</i> , 2006 , 281, 2358-72	5.4	113
473	S-[2-(N7-guanyl)ethyl]glutathione, the major DNA adduct formed from 1,2-dibromoethane. <i>Biochemistry</i> , 1986 , 25, 2192-8	3.2	113
472	Translesion synthesis across O6-alkylguanine DNA adducts by recombinant human DNA polymerases. <i>Journal of Biological Chemistry</i> , 2006 , 281, 38244-56	5.4	111
471	Function of human cytochrome P450s: characterization of the orphans. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 338, 465-9	3.4	110
470	Selection and characterization of human cytochrome P450 1A2 mutants with altered catalytic properties. <i>Biochemistry</i> , 1999 , 38, 5283-9	3.2	109
469	Olefin oxidation by cytochrome P-450: evidence for group migration in catalytic intermediates formed with vinylidene chloride and trans-1-phenyl-1-butene. <i>Biochemistry</i> , 1983 , 22, 5482-9	3.2	109
468	Fidelity of nucleotide insertion at 8-oxo-7,8-dihydroguanine by mammalian DNA polymerase delta. Steady-state and pre-steady-state kinetic analysis. <i>Journal of Biological Chemistry</i> , 2001 , 276, 3764-71	5.4	108

467	Cytochrome P450 enzymes in drug metabolism and chemical toxicology: An introduction. <i>Biochemistry and Molecular Biology Education</i> , 2006 , 34, 66-74	1.3	107
466	Kinetics of cytochrome P450 2E1-catalyzed oxidation of ethanol to acetic acid via acetaldehyde. <i>Journal of Biological Chemistry</i> , 1999 , 274, 23833-40	5.4	106
465	Oxidation of aflatoxins and sterigmatocystin by human liver microsomes: significance of aflatoxin Q1 as a detoxication product of aflatoxin B1. <i>Chemical Research in Toxicology</i> , 1992 , 5, 202-10	4	106
464	Analysis of nucleotide insertion and extension at 8-oxo-7,8-dihydroguanine by replicative T7 polymerase exo- and human immunodeficiency virus-1 reverse transcriptase using steady-state and pre-steady-state kinetics. <i>Biochemistry</i> , 1997 , 36, 6475-87	3.2	104
463	Cytochromes P450 and drug discovery. <i>Current Opinion in Biotechnology</i> , 2007 , 18, 504-12	11.4	102
462	Intralobular distribution and quantitation of cytochrome P-450 enzymes in human liver as a function of age. <i>Hepatology</i> , 1991 , 13, 1142-1151	11.2	102
461	The Role of Oxysterols in Human Cancer. <i>Trends in Endocrinology and Metabolism</i> , 2017 , 28, 485-496	8.8	100
460	Structure-function relationships of inhibition of human cytochromes P450 1A1, 1A2, 1B1, 2C9, and 3A4 by 33 flavonoid derivatives. <i>Chemical Research in Toxicology</i> , 2010 , 23, 1921-35	4	99
459	Steady-state and pre-steady-state kinetic analysis of 8-oxo-7,8-dihydroguanosine triphosphate incorporation and extension by replicative and repair DNA polymerases. <i>Biochemistry</i> , 1998 , 37, 13300-13312	3.2	97
458	Cyp27c1 Red-Shifts the Spectral Sensitivity of Photoreceptors by Converting Vitamin A1 into A2. <i>Current Biology</i> , 2015 , 25, 3048-57	6.3	95
457	Mechanism of cytochrome P-450 catalysis. Mechanism of N-dealkylation and amine oxide deoxygenation. <i>Journal of the American Chemical Society</i> , 1985 , 107, 2549-2551	16.4	94
456	Substrate binding to cytochromes P450. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 392, 1019-30	4.4	93
455	Interactions of carcinogen-bound DNA with individual DNA polymerases. <i>Chemical Reviews</i> , 2006 , 106, 420-52	68.1	92
454	Steady-state and pre-steady-state kinetic analysis of dNTP insertion opposite 8-oxo-7,8-dihydroguanine by Escherichia coli polymerases I exo- and II exo-. <i>Biochemistry</i> , 1996 , 35, 9840-9852	3.2	89
453	Roles of the vinyl chloride oxidation products 1-chlorooxirane and 2-chloroacetaldehyde in the in vitro formation of etheno adducts of nucleic acid bases [corrected]. <i>Chemical Research in Toxicology</i> , 1992 , 5, 2-5	4	89
452	Update information on drug metabolism systems--2009, part II: summary of information on the effects of diseases and environmental factors on human cytochrome P450 (CYP) enzymes and transporters. <i>Current Drug Metabolism</i> , 2010 , 11, 4-84	3.5	88
451	Recombinant enzymes overexpressed in bacteria show broad catalytic specificity of human cytochrome P450 2W1 and limited activity of human cytochrome P450 2S1. <i>Molecular Pharmacology</i> , 2006 , 69, 2007-14	4.3	88
450	The endo-8,9-epoxide of aflatoxin B1: a new metabolite. <i>Chemical Research in Toxicology</i> , 1992 , 5, 333-5	4	87

449	New applications of bacterial systems to problems in toxicology. <i>Critical Reviews in Toxicology</i> , 1996 , 26, 551-83	5.7	86
448	Kinetics and Mechanism of Hydrolysis of Aflatoxin B1 _{exo-8,9-Epo} xide and Rearrangement of the Dihydrodiol. <i>Journal of the American Chemical Society</i> , 1996 , 118, 8213-8220	16.4	86
447	Evidence for an episulfonium ion intermediate in the formation of S-[2-(N7-guanyl)ethyl]glutathione in DNA. <i>Journal of the American Chemical Society</i> , 1988 , 110, 3284-3291	16.4	86
446	Structure-Functional Characterization of Cytochrome P450 Sterol 14 α -Demethylase (CYP51B) from <i>Aspergillus fumigatus</i> and Molecular Basis for the Development of Antifungal Drugs. <i>Journal of Biological Chemistry</i> , 2015 , 290, 23916-34	5.4	85
445	Different in vitro metabolism of paclitaxel and docetaxel in humans, rats, pigs, and minipigs. <i>Drug Metabolism and Disposition</i> , 2004 , 32, 666-74	4	85
444	Selection of human cytochrome P450 1A2 mutants with enhanced catalytic activity for heterocyclic amine N-hydroxylation. <i>Biochemistry</i> , 2004 , 43, 981-8	3.2	85
443	Immunoquantification of epoxide hydrolase and cytochrome P-450 isozymes in fetal and adult human liver microsomes. <i>FEBS Journal</i> , 1985 , 151, 345-50		85
442	Purification of human liver cytosolic epoxide hydrolase and comparison to the microsomal enzyme. <i>Biochemistry</i> , 1982 , 21, 5769-76	3.2	85
441	Oxidation kinetics of ethanol by human cytochrome P450 2E1. Rate-limiting product release accounts for effects of isotopic hydrogen substitution and cytochrome b5 on steady-state kinetics. <i>Journal of Biological Chemistry</i> , 1997 , 272, 29643-51	5.4	84
440	Adduct size limits efficient and error-free bypass across bulky N2-guanine DNA lesions by human DNA polymerase ϵ . <i>Journal of Molecular Biology</i> , 2005 , 352, 72-90	6.5	84
439	Stimulation of cytochrome P450 reactions by apo-cytochrome b5: evidence against transfer of heme from cytochrome P450 3A4 to apo-cytochrome b5 or heme oxygenase. <i>Journal of Biological Chemistry</i> , 2001 , 276, 30885-91	5.4	83
438	Translesion synthesis across abasic lesions by human B-family and Y-family DNA polymerases η and θ and REV1. <i>Journal of Molecular Biology</i> , 2010 , 404, 34-44	6.5	82
437	Kinetic analysis of oxidation of coumarins by human cytochrome P450 2A6. <i>Journal of Biological Chemistry</i> , 2005 , 280, 12279-91	5.4	81
436	Human-liver cytochromes P-450 expressed in yeast as tools for reactive-metabolite formation studies. Oxidative activation of tienilic acid by cytochromes P-450 2C9 and 2C10. <i>FEBS Journal</i> , 1993 , 213, 223-32		80
435	Role of cytochrome P450 IIIA4 in the metabolism of the pyrrolizidine alkaloid senecionine in human liver. <i>Carcinogenesis</i> , 1991 , 12, 515-9	4.6	80
434	Orphans in the human cytochrome P450 superfamily: approaches to discovering functions and relevance in pharmacology. <i>Pharmacological Reviews</i> , 2011 , 63, 684-99	22.5	79
433	Rate-limiting steps in oxidations catalyzed by rabbit cytochrome P450 1A2. <i>Biochemistry</i> , 2004 , 43, 10775-88	5.88	79
432	Cytochrome P450 3A4-catalyzed testosterone 6 β -hydroxylation stereochemistry, kinetic deuterium isotope effects, and rate-limiting steps. <i>Journal of Biological Chemistry</i> , 2005 , 280, 19496-506	5.4	79

431	Mitochondria-targeted cytochrome P450 2E1 induces oxidative damage and augments alcohol-mediated oxidative stress. <i>Journal of Biological Chemistry</i> , 2010 , 285, 24609-19	5.4	78
430	Conversion of 7-dehydrocholesterol to 7-ketocholesterol is catalyzed by human cytochrome P450 7A1 and occurs by direct oxidation without an epoxide intermediate. <i>Journal of Biological Chemistry</i> , 2011 , 286, 33021-8	5.4	77
429	Intersection of the Roles of Cytochrome P450 Enzymes with Xenobiotic and Endogenous Substrates: Relevance to Toxicity and Drug Interactions. <i>Chemical Research in Toxicology</i> , 2017 , 30, 2-12	4	76
428	<i>Sulfolobus solfataricus</i> DNA polymerase Dpo4 is partially inhibited by "wobble" pairing between O6-methylguanine and cytosine, but accurate bypass is preferred. <i>Journal of Biological Chemistry</i> , 2007 , 282, 1456-67	5.4	76
427	1,N(2)-ethenoguanine, a mutagenic DNA adduct, is a primary substrate of <i>Escherichia coli</i> mismatch-specific uracil-DNA glycosylase and human alkylpurine-DNA-N-glycosylase. <i>Journal of Biological Chemistry</i> , 2002 , 277, 26987-93	5.4	76
426	Cytochrome P-450 isozyme/isozyme functional interactions and NADPH-cytochrome P-450 reductase concentrations as factors in microsomal metabolism of warfarin. <i>FEBS Journal</i> , 1985 , 149, 479-89		74
425	Conjugation of highly reactive aflatoxin B1 exo-8,9-epoxide catalyzed by rat and human glutathione transferases: estimation of kinetic parameters. <i>Biochemistry</i> , 1997 , 36, 3056-60	3.2	72
424	Structural and functional elucidation of the mechanism promoting error-prone synthesis by human DNA polymerase kappa opposite the 7,8-dihydro-8-oxo-2'-deoxyguanosine adduct. <i>Journal of Biological Chemistry</i> , 2009 , 284, 22467-22480	5.4	71
423	Inhibition of oral contraceptive steroid-metabolizing enzymes by steroids and drugs. <i>American Journal of Obstetrics and Gynecology</i> , 1990 , 163, 2159-63	6.4	71
422	Kinetic analysis of the three-step steroid aromatase reaction of human cytochrome P450 19A1. <i>Journal of Biological Chemistry</i> , 2010 , 285, 17734-43	5.4	69
421	Electron transport pathway for a <i>Streptomyces</i> cytochrome P450: cytochrome P450 105D5-catalyzed fatty acid hydroxylation in <i>Streptomyces coelicolor</i> A3(2). <i>Journal of Biological Chemistry</i> , 2007 , 282, 17486-500	5.4	69
420	Aryl hydrocarbon receptor response to indigoids in vitro and in vivo. <i>Archives of Biochemistry and Biophysics</i> , 2004 , 423, 309-16	4.1	69
419	Hydrogen bonding of 7,8-dihydro-8-oxodeoxyguanosine with a charged residue in the little finger domain determines miscoding events in <i>Sulfolobus solfataricus</i> DNA polymerase Dpo4. <i>Journal of Biological Chemistry</i> , 2007 , 282, 19831-43	5.4	68
418	In vitro techniques for studying drug metabolism. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , 1996 , 24, 521-33		68
417	Mechanism-based inactivation of cytochrome P-450 by heteroatom-substituted cyclopropanes and formation of ring-opened products. <i>Journal of the American Chemical Society</i> , 1984 , 106, 6446-6447	16.4	68
416	Mechanism of the third oxidative step in the conversion of androgens to estrogens by cytochrome P450 19A1 steroid aromatase. <i>Journal of the American Chemical Society</i> , 2014 , 136, 15016-25	16.4	67
415	"Phase I and Phase II" drug metabolism: terminology that we should phase out?. <i>Drug Metabolism Reviews</i> , 2005 , 37, 575-80	7	67
414	Generation of new protein kinase inhibitors utilizing cytochrome p450 mutant enzymes for indigoid synthesis. <i>Journal of Medicinal Chemistry</i> , 2004 , 47, 3236-41	8.3	67

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