

Tsutomu Shimada

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#	Paper	IF	Citations
137	Oxidation of toxic and carcinogenic chemicals by human cytochrome P-450 enzymes. <i>Chemical Research in Toxicology</i> , 1991 , 4, 391-407	4	918
136	Metabolic activation of polycyclic aromatic hydrocarbons to carcinogens by cytochromes P450 1A1 and 1B1. <i>Cancer Science</i> , 2004 , 95, 1-6	6.9	558
135	Xenobiotic-metabolizing enzymes involved in activation and detoxification of carcinogenic polycyclic aromatic hydrocarbons. <i>Drug Metabolism and Pharmacokinetics</i> , 2006 , 21, 257-76	2.2	421
134	Cytochrome P450 2E1 and 2A6 enzymes as major catalysts for metabolic activation of N-nitrosodialkylamines and tobacco-related nitrosamines in human liver microsomes. <i>Carcinogenesis</i> , 1992 , 13, 1789-94	4.6	335
133	Evidence for cytochrome P-450NF, the nifedipine oxidase, being the principal enzyme involved in the bioactivation of aflatoxins in human liver. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1989 , 86, 462-5	11.5	256
132	Progesterone and testosterone hydroxylation by cytochromes P450 2C19, 2C9, and 3A4 in human liver microsomes. <i>Archives of Biochemistry and Biophysics</i> , 1997 , 346, 161-9	4.1	249
131	Activation and detoxication of aflatoxin B1. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1998 , 402, 121-8	3.3	216
130	Catalytic properties of polymorphic human cytochrome P450 1B1 variants. <i>Carcinogenesis</i> , 1999 , 20, 1607-13	4.13	209
129	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
128	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
127	Oxidation of aflatoxin B1 by bacterial recombinant human cytochrome P450 enzymes. <i>Chemical Research in Toxicology</i> , 1995 , 8, 218-25	4	193
126	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
125	Roles of CYP2A6 and CYP2B6 in nicotine C-oxidation by human liver microsomes. <i>Archives of Toxicology</i> , 1999 , 73, 65-70	5.8	188
124	Selectivity of polycyclic inhibitors for human cytochrome P450s 1A1, 1A2, and 1B1. <i>Chemical Research in Toxicology</i> , 1998 , 11, 1048-56	4	182
123	Arylhydrocarbon receptor-dependent induction of liver and lung cytochromes P450 1A1, 1A2, and 1B1 by polycyclic aromatic hydrocarbons and polychlorinated biphenyls in genetically engineered C57BL/6J mice. <i>Carcinogenesis</i> , 2002 , 23, 1199-207	4.6	174
122	SOS-inducing activity of chemical carcinogens and mutagens in <i>Salmonella typhimurium</i> TA1535/pSK1002: examination with 151 chemicals. <i>Mutation Research-Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1987 , 192, 239-46		167
121	Association of CYP1B1 genetic polymorphism with incidence to breast and lung cancer. <i>Pharmacogenetics and Genomics</i> , 2000 , 10, 25-33		158

120	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
119	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
118	Cytochrome P450-dependent drug oxidation activities in liver microsomes of various animal species including rats, guinea pigs, dogs, monkeys, and humans. <i>Archives of Toxicology</i> , 1997 , 71, 401-8	5.8	146
117	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
116	Comparative studies on the catalytic roles of cytochrome P450 2C9 and its Cys- and Leu-variants in the oxidation of warfarin, flurbiprofen, and diclofenac by human liver microsomes. <i>Biochemical Pharmacology</i> , 1998 , 56, 243-51	6	139
115	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
114	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
113	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
112	Roles of cytochrome b5 in the oxidation of testosterone and nifedipine by recombinant cytochrome P450 3A4 and by human liver microsomes. <i>Archives of Biochemistry and Biophysics</i> , 1996 , 325, 174-82	4.1	125
111	Reconstitution of recombinant cytochrome P450 2C10(2C9) and comparison with cytochrome P450 3A4 and other forms: effects of cytochrome P450-P450 and cytochrome P450-b5 interactions. <i>Archives of Biochemistry and Biophysics</i> , 1997 , 342, 329-37	4.1	120
110	Human liver cytochrome P450 enzymes involved in the 7-hydroxylation of R- and S-warfarin enantiomers. <i>Biochemical Pharmacology</i> , 1997 , 54, 1195-203	6	119
109	Role of phospholipids in reconstituted cytochrome P450 3A form and mechanism of their activation of catalytic activity. <i>Biochemistry</i> , 1992 , 31, 6063-9	3.2	117
108	Relationship between CYP2C9 and 2C19 genotypes and tolbutamide methyl hydroxylation and S-mephenytoin 4-hydroxylation activities in livers of Japanese and Caucasian populations. <i>Pharmacogenetics and Genomics</i> , 1997 , 7, 103-13		116
107	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
106	Ethnic-related differences in coumarin 7-hydroxylation activities catalyzed by cytochrome P450 2A6 in liver microsomes of Japanese and Caucasian populations. <i>Xenobiotica</i> , 1996 , 26, 395-403	2	107
105	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
104	Tissue-specific induction of cytochromes P450 1A1 and 1B1 by polycyclic aromatic hydrocarbons and polychlorinated biphenyls in engineered C57BL/6J mice of arylhydrocarbon receptor gene. <i>Toxicology and Applied Pharmacology</i> , 2003 , 187, 1-10	4.6	105
103	Molecular cloning of a novel human collectin from liver (CL-L1). <i>Journal of Biological Chemistry</i> , 1999 , 274, 13681-9	5.4	102

102	Human cytochrome P-450 enzymes. <i>Life Sciences</i> , 1992 , 50, 1471-8	6.8	101
101	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
100	Metabolism of FK506, a potent immunosuppressive agent, by cytochrome P450 3A enzymes in rat, dog and human liver microsomes. <i>Biochemical Pharmacology</i> , 1994 , 47, 727-35	6	96
99	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
98	Recombinant human cytochrome P450 1B1 expression in Escherichia coli. <i>Archives of Biochemistry and Biophysics</i> , 1998 , 357, 111-20	4.1	87
97	New applications of bacterial systems to problems in toxicology. <i>Critical Reviews in Toxicology</i> , 1996 , 26, 551-83	5.7	86
96	7-Ethoxycoumarin O-deethylation catalyzed by cytochromes P450 1A2 and 2E1 in human liver microsomes. <i>Biochemical Pharmacology</i> , 1996 , 51, 313-9	6	85
95	Participation of rat liver cytochrome P450 2E1 in the activation of N-nitrosodimethylamine and N-nitrosodiethylamine to products genotoxic in an acetyltransferase-overexpressing Salmonella typhimurium strain (NM2009). <i>Carcinogenesis</i> , 1992 , 13, 979-85	4.6	84
94	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
93	Immunohistochemical study of cytochrome P450 2C and 3A in human non-neoplastic and neoplastic tissues. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , 1999 , 434, 401-11	5.1	77
92	Metabolism of (+)- and (-)-limonenes to respective carveols and perillyl alcohols by CYP2C9 and CYP2C19 in human liver microsomes. <i>Drug Metabolism and Disposition</i> , 2002 , 30, 602-7	4	74
91	Human-liver cytochromes P-450 involved in polymorphisms of drug oxidation. <i>Xenobiotica</i> , 1986 , 16, 367-78	2	73
90	Electron transport pathway for a Streptomyces cytochrome P450: cytochrome P450 105D5-catalyzed fatty acid hydroxylation in Streptomyces coelicolor A3(2). <i>Journal of Biological Chemistry</i> , 2007 , 282, 17486-500	5.4	69
89	Specificity of 17beta-oestradiol and benzo[a]pyrene oxidation by polymorphic human cytochrome P4501B1 variants substituted at residues 48, 119 and 432. <i>Xenobiotica</i> , 2001 , 31, 163-76	2	68
88	Metabolic activation of heterocyclic amines and other procarcinogens in Salmonella typhimurium umu tester strains expressing human cytochrome P4501A1, 1A2, 1B1, 2C9, 2D6, 2E1, and 3A4 and human NADPH-P450 reductase and bacterial O-acetyltransferase. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2001 , 492, 81-90	3	68
87	Requirements for cytochrome b5 in the oxidation of 7-ethoxycoumarin, chlorzoxazone, aniline, and N-nitrosodimethylamine by recombinant cytochrome P450 2E1 and by human liver microsomes. <i>Biochemical Pharmacology</i> , 1996 , 52, 301-9	6	66
86	Comparison of the DNA-alkylating properties and mutagenic responses of a series of S-(2-haloethyl)-substituted cysteine and glutathione derivatives. <i>Biochemistry</i> , 1990 , 29, 10342-50	3.2	66
85	Development of high sensitive umu test system: rapid detection of genotoxicity of promutagenic aromatic amines by Salmonella typhimurium strain NM2009 possessing high O-acetyltransferase activity. <i>Mutation Research - Environmental Mutagenesis and Related Subjects Including Methodology</i> , 1995 , 334, 145-56		65

84	Activation of procarcinogens by human cytochrome P450 enzymes expressed in Escherichia coli. Simplified bacterial systems for genotoxicity assays. <i>Carcinogenesis</i> , 1994 , 15, 2523-9	4.6	65
83	Interactions of mammalian cytochrome P450, NADPH-cytochrome P450 reductase, and cytochrome b(5) enzymes. <i>Archives of Biochemistry and Biophysics</i> , 2005 , 435, 207-16	4.1	62
82	Decreased coumarin 7-hydroxylase activities and CYP2A6 expression levels in humans caused by genetic polymorphism in CYP2A6 promoter region (CYP2A6*9). <i>Pharmacogenetics and Genomics</i> , 2003 , 13, 689-95		62
81	Comparison of rates of enzymatic oxidation of aflatoxin B1, aflatoxin G1, and sterigmatocystin and activities of the epoxides in forming guanyl-N7 adducts and inducing different genetic responses. <i>Chemical Research in Toxicology</i> , 1989 , 2, 114-2	4	59
80	Involvement of Cytochrome P450, Glutathione S-Transferase, and Epoxide Hydrolase in the Metabolism of Aflatoxin B 1 and Relevance to Risk of Human Liver Cancer. <i>Environmental Health Perspectives</i> , 1996 , 104, 557	8.4	56
79	Metabolic activation of environmental carcinogens and mutagens by human liver microsomes. Role of cytochrome P-450 homologous to a 3-methylcholanthrene-inducible isozyme in rat liver. <i>Biochemical Pharmacology</i> , 1988 , 37, 459-65	6	56
78	CYP3A4 intron 6 C>T polymorphism (CYP3A4*22) is associated with reduced CYP3A4 protein level and function in human liver microsomes. <i>Journal of Toxicological Sciences</i> , 2013 , 38, 349-54	1.9	55
77	Construction of a human cytochrome P450 1A1: rat NADPH-cytochrome P450 reductase fusion protein cDNA and expression in Escherichia coli, purification, and catalytic properties of the enzyme in bacterial cells and after purification. <i>Archives of Biochemistry and Biophysics</i> , 1996 , 330, 48-58	4.1	53
76	Highly sensitive umu test system for the detection of mutagenic nitroarenes in Salmonella typhimurium NM3009 having high O-acetyltransferase and nitroreductase activities. <i>Environmental and Molecular Mutagenesis</i> , 1993 , 21, 357-64	3.2	53
75	Aflatoxin B1 8,9-epoxide hydrolysis in the presence of rat and human epoxide hydrolase. <i>Chemical Research in Toxicology</i> , 1997 , 10, 672-6	4	52
74	Different mechanisms for inhibition of human cytochromes P450 1A1, 1A2, and 1B1 by polycyclic aromatic inhibitors. <i>Chemical Research in Toxicology</i> , 2007 , 20, 489-96	4	52
73	Activation of 3,4,3',4'-tetrachlorobiphenyl to protein-bound metabolites by rat liver microsomal cytochrome P-448-containing monooxygenase system. <i>Toxicology and Applied Pharmacology</i> , 1983 , 70, 486-93	4.6	51
72	Characterization of (+/-)-bufuralol hydroxylation activities in liver microsomes of Japanese and Caucasian subjects genotyped for CYP2D6. <i>Pharmacogenetics and Genomics</i> , 2001 , 11, 143-56		50
71	Expression of cytochrome P450 3A7 in Escherichia coli: effects of 5Qmodification and catalytic characterization of recombinant enzyme expressed in bicistronic format with NADPH-cytochrome P450 reductase. <i>Archives of Biochemistry and Biophysics</i> , 1997 , 346, 81-90	4.1	49
70	CYP2A6 genetic polymorphisms and liver microsomal coumarin and nicotine oxidation activities in Japanese and Caucasians. <i>Archives of Toxicology</i> , 2000 , 73, 532-9	5.8	49
69	Procarcinogen activation by cytochrome P450 3A4 and 3A5 expressed in Escherichia coli and by human liver microsomes. <i>Carcinogenesis</i> , 1995 , 16, 2167-70	4.6	48
68	Assignment of the human cytochrome P-450 nifedipine oxidase gene (CYP3A4) to chromosome 7 at band q22.1 by fluorescence in situ hybridization. <i>Japanese Journal of Human Genetics</i> , 1992 , 37, 133-8		47
67	Metabolic activation of polycyclic aromatic hydrocarbons and aryl and heterocyclic amines by human cytochromes P450 2A13 and 2A6. <i>Chemical Research in Toxicology</i> , 2013 , 26, 529-37	4	42

66	Highly sensitive high-performance liquid chromatographic assay for coumarin 7-hydroxylation and 7-ethoxycoumarin O-deethylation by human liver cytochrome P450 enzymes. <i>Biomedical Applications</i> , 1999 , 721, 13-9		41
65	Catalytic roles of rat and human cytochrome P450 2A enzymes in testosterone 7 alpha- and coumarin 7-hydroxylations. <i>Biochemical Pharmacology</i> , 1994 , 48, 1524-7	6	41
64	Sex differences in the metabolism of (+)- and (-)-limonene enantiomers to carveol and perillyl alcohol derivatives by cytochrome p450 enzymes in rat liver microsomes. <i>Chemical Research in Toxicology</i> , 2002 , 15, 15-20	4	40
63	Elucidation of catalytic specificities of human cytochrome P450 and glutathione S-transferase enzymes and relevance to molecular epidemiology. <i>Environmental Health Perspectives</i> , 1992 , 98, 75-80	8.4	39
62	Reverse type I binding spectra of human cytochrome P450 1B1 induced by flavonoid, stilbene, pyrene, naphthalene, phenanthrene, and biphenyl derivatives that inhibit catalytic activity: a structure-function relationship study. <i>Chemical Research in Toxicology</i> , 2009 , 22, 1325-33	4	35
61	Molecular modelling of human CYP1B1 substrate interactions and investigation of allelic variant effects on metabolism. <i>Chemico-Biological Interactions</i> , 2003 , 145, 281-95	5	33
60	Development of a new genotoxicity test system with Salmonella typhimurium OY1001/1A2 expressing human CYP1A2 and NADPH-P450 reductase. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 1999 , 442, 113-20	3	33
59	A new Salmonella typhimurium NM5004 strain expressing rat glutathione S-transferase 5-5: use in detection of genotoxicity of dihaloalkanes using an SOS/umu test system. <i>Carcinogenesis</i> , 1996 , 17, 297-302	4.6	33
58	Roles of different forms of cytochrome P450 in the activation of the promutagen 6-aminochrysene to genotoxic metabolites in human liver microsomes. <i>Carcinogenesis</i> , 1993 , 14, 1271-8	4.6	33
57	Inhibition of Carcinogen-Activating Cytochrome P450 Enzymes by Xenobiotic Chemicals in Relation to Antimutagenicity and Anticarcinogenicity. <i>Toxicological Research</i> , 2017 , 33, 79-96	3.7	32
56	Species differences in the metabolism of (+)- and (-)-limonenes and their metabolites, carveols and carvones, by cytochrome P450 enzymes in liver microsomes of mice, rats, guinea pigs, rabbits, dogs, monkeys, and humans. <i>Drug Metabolism and Pharmacokinetics</i> , 2002 , 17, 507-15	2.2	32
55	Interaction of polycyclic aromatic hydrocarbons with human cytochrome P450 1B1 in inhibiting catalytic activity. <i>Chemical Research in Toxicology</i> , 2008 , 21, 2313-23	4	31
54	Activation and inactivation of carcinogenic dihaloalkanes and other compounds by glutathione S-transferase 5-5 in Salmonella typhimurium tester strain NM5004. <i>Chemical Research in Toxicology</i> , 1996 , 9, 333-40	4	31
53	Contributions of human liver cytochrome P450 enzymes to the N-oxidation of 4,4'-methylene-bis(2-chloroaniline). <i>Carcinogenesis</i> , 1992 , 13, 217-22	4.6	31
52	Binding of diverse environmental chemicals with human cytochromes P450 2A13, 2A6, and 1B1 and enzyme inhibition. <i>Chemical Research in Toxicology</i> , 2013 , 26, 517-28	4	29
51	Metabolic activation of [14C] polychlorinated biphenyl mixtures by rat liver microsomes. <i>Bulletin of Environmental Contamination and Toxicology</i> , 1976 , 16, 26-32	2.7	29
50	Twenty one novel single nucleotide polymorphisms (SNPs) of the CYP2A6 gene in Japanese and Caucasians. <i>Drug Metabolism and Pharmacokinetics</i> , 2002 , 17, 482-7	2.2	27
49	Roles of human CYP2A6 and 2B6 and rat CYP2C11 and 2B1 in the 10-hydroxylation of (-)-verbenone by liver microsomes. <i>Drug Metabolism and Disposition</i> , 2003 , 31, 1049-53	4	26

48	Phospholipase D activity of cytochrome P450 in human liver endoplasmic reticulum. <i>Archives of Biochemistry and Biophysics</i> , 1999 , 367, 81-8	4.1	25
47	A sensitive umu test system for the detection of mutagenic nitroarenes in Salmonella typhimurium NM1011 having a high nitroreductase activity. <i>Mutation Research - Environmental Mutagenesis and Related Subjects Including Methodology</i> , 1992 , 272, 91-9		25
46	Spectral modification and catalytic inhibition of human cytochromes P450 1A1, 1A2, 1B1, 2A6, and 2A13 by four chemopreventive organoselenium compounds. <i>Chemical Research in Toxicology</i> , 2011 , 24, 1327-37	4	24
45	Use of genetically engineered Salmonella typhimurium OY1002/1A2 strain coexpressing human cytochrome P450 1A2 and NADPH-cytochrome P450 reductase and bacterial O-acetyltransferase in SOS/umu assay. <i>Environmental and Molecular Mutagenesis</i> , 2000 , 36, 121-6	3.2	23
44	Understanding electron transport systems of Streptomyces cytochrome P450. <i>Biochemical Society Transactions</i> , 2006 , 34, 1183-5	5.1	22
43	Comparative studies on distribution and covalent tissue binding of 2,4,2',4' and 3,4,3',4' tetrachlorobiphenyl isomers in the rat. <i>Archives of Toxicology</i> , 1984 , 55, 182-5	5.8	22
42	Differential roles of cytochromes P450 2D1, 2C11, and 1A1/2 in the hydroxylation of bufuralol by rat liver microsomes. <i>Biochemical Pharmacology</i> , 1994 , 47, 1957-63	6	21
41	Roles of different cytochrome P450 enzymes in bioactivation of the potent hepatocarcinogen 3-methoxy-4-aminoazobenzene by rat and human liver microsomes. <i>Carcinogenesis</i> , 1991 , 12, 133-9	4.6	19
40	Use of a newly developed tester strain Salmonella typhimurium NM2009 for the study of metabolic activation of carcinogenic aromatic amines by rat liver microsomal cytochrome P-450 enzymes. <i>Mutation Research - Environmental Mutagenesis and Related Subjects Including Methodology</i> , 1992 , 272, 183-92		18
39	Characterization of liver microsomal 7-ethoxycoumarin O-deethylation and chlorzoxazone 6-hydroxylation activities in Japanese and Caucasian subjects genotyped for CYP2E1 gene. <i>Archives of Toxicology</i> , 2000 , 74, 372-8	5.8	16
38	Fluorescence in situ hybridization analysis of chromosomal localization of three human cytochrome P450 2C genes (CYP2C8, 2C9, and 2C10) at 10q24.1. <i>Japanese Journal of Human Genetics</i> , 1994 , 39, 337-43		16
37	Mutagenic activation of aflatoxin B1 by pulmonary, renal, and hepatic cytochrome P450s from rats. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1992 , 269, 231-6	3.3	16
36	Inhibition of mono-oxygenase activities by 1,1,1-trichloropropene 2,3-oxide, an inhibitor of epoxide hydrase, in rat liver microsomes. <i>Biochemical Pharmacology</i> , 1979 , 28, 1777-81	6	16
35	Roles of Human CYP2A6 and Monkey CYP2A24 and 2A26 Cytochrome P450 Enzymes in the Oxidation of 2,5,2',5' Tetrachlorobiphenyl. <i>Drug Metabolism and Disposition</i> , 2016 , 44, 1899-1909	4	16
34	Oxidation of pyrene, 1-hydroxypyrene, 1-nitropyrene and 1-acetylpyrene by human cytochrome P450 2A13. <i>Xenobiotica</i> , 2016 , 46, 211-24	2	15
33	Roles of NADPH-P450 reductase in the O-deethylation of 7-ethoxycoumarin by recombinant human cytochrome P450 1B1 variants in Escherichia coli. <i>Protein Expression and Purification</i> , 2000 , 20, 73-80	2	15
32	Structure-Function Studies of Naphthalene, Phenanthrene, Biphenyl, and Their Derivatives in Interaction with and Oxidation by Cytochromes P450 2A13 and 2A6. <i>Chemical Research in Toxicology</i> , 2016 , 29, 1029-40	4	15
31	Oxidation of Acenaphthene and Acenaphthylene by Human Cytochrome P450 Enzymes. <i>Chemical Research in Toxicology</i> , 2015 , 28, 268-78	4	14

30	Effects of erythromycin and roxithromycin on oxidation of testosterone and nifedipine catalyzed by CYP3A4 in human liver microsomes. <i>Journal of Toxicological Sciences</i> , 1996 , 21, 215-26	1.9	14
29	Activation of carcinogens by human liver cytochromes P-450. <i>Basic Life Sciences</i> , 1990 , 53, 381-96		14
28	Activation of aminophenylnorharman, aminomethylphenylnorharman and aminophenylharman to genotoxic metabolites by human N-acetyltransferases and cytochrome P450 enzymes expressed in <i>Salmonella typhimurium</i> umu tester strains. <i>Mutagenesis</i> , 2006 , 21, 411-6	2.8	13
27	Rat pulmonary microsomal cytochrome P-450 enzymes involved in the activation of procarcinogens. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1992 , 284, 233-41	3.3	13
26	Activation of trans-1,2-dihydro-1,2-dihydroxy-6-aminochrysene to genotoxic metabolites by rat and human cytochromes P450. <i>Carcinogenesis</i> , 1994 , 15, 465-70	4.6	12
25	Cytochrome P450 2A6 and other human P450 enzymes in the oxidation of flavone and flavanone. <i>Xenobiotica</i> , 2019 , 49, 131-142	2	12
24	Oxidation of 1-chloropyrene by human CYP1 family and CYP2A subfamily cytochrome P450 enzymes: catalytic roles of two CYP1B1 and five CYP2A13 allelic variants. <i>Xenobiotica</i> , 2018 , 48, 565-575 ²		10
23	Metabolic deactivation of furylfuramide by cytochrome P450 in human and rat liver microsomes. <i>Carcinogenesis</i> , 1990 , 11, 103-10	4.6	10
22	A convenient assay for mephenytoin 4-hydroxylase activity of human liver microsomal cytochrome P-450. <i>Analytical Biochemistry</i> , 1985 , 147, 174-9	3.1	10
21	Site-specific oxidation of flavanone and flavone by cytochrome P450 2A6 in human liver microsomes. <i>Xenobiotica</i> , 2019 , 49, 791-802	2	9
20	Cytochrome P450 reconstitution systems. <i>Methods in Molecular Biology</i> , 2006 , 320, 61-71	1.4	9
19	Cytochrome P450 reconstitution systems. <i>Methods in Molecular Biology</i> , 1998 , 107, 85-93	1.4	9
18	Activation of toxic chemicals by cytochrome P450 enzymes: regio- and stereoselective oxidation of aflatoxin B1. <i>Advances in Experimental Medicine and Biology</i> , 1996 , 387, 7-15	3.6	9
17	Lack of correlation between formation of reactive metabolites and thymic atrophy caused by 3,4,3Q4Q-tetrachlorobiphenyl in C57BL/6N mice. <i>Archives of Toxicology</i> , 1987 , 59, 301-6	5.8	8
16	Cytochrome P-450 oxidations and the generation of biologically reactive intermediates. <i>Advances in Experimental Medicine and Biology</i> , 1991 , 283, 1-11	3.6	8
15	Oxidation of Flavone, 5-Hydroxyflavone, and 5,7-Dihydroxyflavone to Mono-, Di-, and Tri-Hydroxyflavones by Human Cytochrome P450 Enzymes. <i>Chemical Research in Toxicology</i> , 2019 , 32, 1268-1280	4	7
14	Possible occurrence of P450 related to P450 HFLb in extrahepatic tissues of human fetuses and its contribution to metabolic activation of promutagens. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1994 , 310, 73-7	3.3	7
13	Interaction of 3,4,3Q4Q-tetrachlorobiphenyl metabolites formed by cytochrome P-450 in vitro with rat erythrocytes. <i>Archives of Toxicology</i> , 1985 , 58, 20-6	5.8	6

12	Preference for -demethylation reactions in the oxidation of 2Q 3Q and 4Qmethoxyflavones by human cytochrome P450 enzymes. <i>Xenobiotica</i> , 2020 , 50, 1158-1169	2	5
11	High-performance liquid chromatographic method for the determination of (-)-verbenone 10-hydroxylation catalyzed by rat liver microsomes. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2003 , 793, 291-6	3.2	4
10	Nicotinamide N-oxide formation by rat liver microsomes. <i>Biochemical Pharmacology</i> , 1983 , 32, 934-6	6	4
9	Use of heterologously-expressed cytochrome P450 and glutathione transferase enzymes in toxicity assays. <i>Toxicology</i> , 2002 , 181-182, 261-4	4.4	3
8	Liquid chromatography-tandem mass spectrometry analysis of oxidation of 2Q 3Q 4Qand 6-hydroxyflavanones by human cytochrome P450 enzymes. <i>Xenobiotica</i> , 2021 , 51, 139-154	2	3
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6	Aflatoxin B1 oxidation by human cytochrome P450s. <i>Journal of Toxicological Sciences</i> , 1998 , 23 Suppl 2, 132-5	1.9	2
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4	OMEPRAZOLE HYDROXYLATION BY CYP2C19 AND CYP3A4: PREDICTION TOWARDS HUMAN LIVER ACTIVITIES USING THE DATA OF RECOMBINANT P450 ENZYMES. <i>Drug Metabolism and Pharmacokinetics</i> , 1997 , 12, 120-121		
3	Variations in contents of liver microsomal cytochrome P450 isofoms and activities of drug oxidations in humans. <i>Drug Metabolism and Pharmacokinetics</i> , 1999 , 14, 78-79		
2	Oxidation of 3Qmethoxyflavone, 4Qmethoxyflavone, and 3Q4Qdimethoxyflavone and their derivatives having 5,7-dihydroxyl moieties by human cytochromes P450 1B1 and 2A13.. <i>Xenobiotica</i> , 2022 , 1-12	2	
1	Inhibition of Carcinogen-Activating Cytochrome P450 Enzymes by Xenobiotic Chemicals in Relation to Antimutagenicity and Anticarcinogenicity. <i>Toxicological Research</i> , 2017 , 33, 79-96	3.7	