

F Peter Guengerich

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

556
papers

39,935
citations

97
h-index

180
g-index

574
ext. papers

42,650
ext. citations

5.4
avg, IF

7.92
L-index

#	Paper	IF	Citations
556	Discovery of a role for cytochrome b in cytochrome P450 reactions.. <i>Archives of Biochemistry and Biophysics</i> , 2022 , 109177	4.1	0
555	Oxidation of 3Omethoxyflavone, 4Omethoxyflavone, and 3Q4Qdimethoxyflavone and their derivatives having 5,7-dihydroxyl moieties by human cytochromes P450 1B1 and 2A13.. <i>Xenobiotica</i> , 2022 , 1-12	2	
554	Roles of cytochrome P450 enzymes in pharmacology and toxicology: Past, present, and future. <i>Advances in Pharmacology</i> , 2022 ,	5.7	1
553	Relaxed Substrate Requirements of Sterol 14EDemethylase from Are Accompanied by Resistance to Inhibition. <i>Journal of Medicinal Chemistry</i> , 2021 , 64, 17511-17522	8.3	
552	Binding of cytochrome P450 27C1, a retinoid desaturase, to its accessory protein adrenodoxin. <i>Archives of Biochemistry and Biophysics</i> , 2021 , 714, 109076	4.1	0
551	Kinetic Evidence for an Induced Fit Mechanism in the Binding of the Substrate Camphor by Cytochrome P450. <i>ACS Catalysis</i> , 2021 , 11, 639-649	13.1	5
550	Etheno adducts: from tRNA modifications to DNA adducts and back to miscoding ribonucleotides. <i>Genes and Environment</i> , 2021 , 43, 24	2.8	0
549	Comparison of the inhibitory effects of azole antifungals on cytochrome P450 3A4 genetic variants. <i>Drug Metabolism and Pharmacokinetics</i> , 2021 , 38, 100384	2.2	2
548	Cytochrome Binds Tightly to Several Human Cytochrome P450 Enzymes. <i>Drug Metabolism and Disposition</i> , 2021 , 49, 902-909	4	1
547	Liquid chromatography-tandem mass spectrometry analysis of oxidation of 2Q 3Q 4Oand 6-hydroxyflavanones by human cytochrome P450 enzymes. <i>Xenobiotica</i> , 2021 , 51, 139-154	2	3
546	Characterization of human adrenal cytochrome P450 11B2 products of progesterone and androstenedione oxidation. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2021 , 208, 105787	5.1	3
545	Human Family 1-4 cytochrome P450 enzymes involved in the metabolic activation of xenobiotic and physiological chemicals: an update. <i>Archives of Toxicology</i> , 2021 , 95, 395-472	5.8	16
544	Roles of cytochrome P450 2A6 in the oxidation of flavone, 4Ohydroxyflavone, and 4Q 3Q and 2Omethoxyflavones by human liver microsomes. <i>Xenobiotica</i> , 2021 , 51, 995-1009	2	1
543	Stepwise binding of inhibitors to human cytochrome P450 17A1 and rapid kinetics of inhibition of androgen biosynthesis. <i>Journal of Biological Chemistry</i> , 2021 , 297, 100969	5.4	2
542	Inhibition of Cytochrome P450 Enzymes by Drugs-Molecular Basis and Practical Applications. <i>Biomolecules and Therapeutics</i> , 2021 ,	4.2	2
541	FEMA GRAS assessment of natural flavor complexes: Eucalyptus oil and other cyclic ether-containing flavoring ingredients. <i>Food and Chemical Toxicology</i> , 2021 , 155, 112357	4.7	3
540	FEMA GRAS assessment of natural flavor complexes: Origanum oil, thyme oil and related phenol derivative-containing flavoring ingredients. <i>Food and Chemical Toxicology</i> , 2021 , 155, 112378	4.7	1

539	Cellular retinoid-binding proteins transfer retinoids to human cytochrome P450 27C1 for desaturation. <i>Journal of Biological Chemistry</i> , 2021 , 297, 101142	5-4	1
538	DNA polymerases α and β bypass N-guanine-O-alkylguanine DNA alkyltransferase cross-linked DNA-peptides. <i>Journal of Biological Chemistry</i> , 2021 , 297, 101124	5-4	0
537	Tight binding of cytochrome b to cytochrome P450 17A1 is a critical feature of stimulation of C21 steroid lyase activity and androgen synthesis. <i>Journal of Biological Chemistry</i> , 2021 , 296, 100571	5-4	6
536	Drug Metabolism: Cytochrome P450 2021 ,		0
535	Enzymatic bypass and the structural basis of miscoding opposite the DNA adduct 1,N-ethenodeoxyguanosine by human DNA translesion polymerase β <i>Journal of Biological Chemistry</i> , 2021 , 296, 100642	5-4	2
534	Enzymatic bypass of an N-deoxyadenosine DNA-ethylene dibromide-peptide cross-link by translesion DNA polymerases. <i>Journal of Biological Chemistry</i> , 2021 , 296, 100444	5-4	2
533	Kinetics of cytochrome P450 3A4 inhibition by heterocyclic drugs defines a general sequential multistep binding process. <i>Journal of Biological Chemistry</i> , 2021 , 296, 100223	5-4	4
532	A requirement for an active proton delivery network supports a compound I-mediated C-C bond cleavage in CYP51 catalysis. <i>Journal of Biological Chemistry</i> , 2020 , 295, 9998-10007	5-4	8
531	The safety evaluation of food flavoring substances: the role of genotoxicity studies. <i>Critical Reviews in Toxicology</i> , 2020 , 50, 1-27	5:7	12
530	Impact of 1, -ethenoadenosine, a damaged ribonucleotide in DNA, on translesion synthesis and repair. <i>Journal of Biological Chemistry</i> , 2020 , 295, 6092-6107	5-4	4
529	Cytochrome P450 2E1 and its roles in disease. <i>Chemico-Biological Interactions</i> , 2020 , 322, 109056	5	21
528	Cytochrome P450 Catalysis in the Biosynthesis of Natural Products 2020 , 96-113		
527	Multistep Binding of the Non-Steroidal Inhibitors Orteronel and Seviteronel to Human Cytochrome P450 17A1 and Relevance to Inhibition of Enzyme Activity. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 6513-6522	8,3	5
526	Methylene Oxidation of Alkyl Sulfates by Cytochrome P450 and a Role for Conformational Selection in Substrate Recognition. <i>ACS Catalysis</i> , 2020 , 10, 5008-5022	13,1	6
525	Preference for -demethylation reactions in the oxidation of 2Q, 3Q, and 4Q-methoxyflavones by human cytochrome P450 enzymes. <i>Xenobiotica</i> , 2020 , 50, 1158-1169	2	5
524	Cytochrome P450 Metabolism Leads to Novel Biological Sterols and Other Steroids 2020 , 145-171		0
523	Metabolism and Interactions of Chloroquine and Hydroxychloroquine with Human Cytochrome P450 Enzymes and Drug Transporters. <i>Current Drug Metabolism</i> , 2020 , 21, 1127-1135	3:5	7
522	Engineering cytochrome P450 enzyme systems for biomedical and biotechnological applications. <i>Journal of Biological Chemistry</i> , 2020 , 295, 833-849	5-4	52

521	Plasma oxysterol levels in luminal subtype breast cancer patients are associated with clinical data. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2020 , 197, 105566	5.1	13
520	Engineering cytochrome P450 enzyme systems for biomedical and biotechnological applications. <i>Journal of Biological Chemistry</i> , 2020 , 295, 833-849	5.4	56
519	FEMA GRAS assessment of natural flavor complexes: Cinnamomum and Myroxylon-derived flavoring ingredients. <i>Food and Chemical Toxicology</i> , 2020 , 135, 110949	4.7	9
518	Functional interactions of adrenodoxin with several human mitochondrial cytochrome P450 enzymes. <i>Archives of Biochemistry and Biophysics</i> , 2020 , 694, 108596	4.1	3
517	FEMA GRAS assessment of natural flavor complexes: Lavender, Guaiac Coriander-derived and related flavoring ingredients. <i>Food and Chemical Toxicology</i> , 2020 , 145, 111584	4.7	1
516	Three Human Pol Δ Variants with Impaired Polymerase Activity Fail to Rescue HO Sensitivity in -Deficient Cells. <i>Chemical Research in Toxicology</i> , 2020 , 33, 2120-2129	4	3
515	FEMA GRAS assessment of natural flavor complexes: Clove, cinnamon leaf and West Indian bay leaf-derived flavoring ingredients. <i>Food and Chemical Toxicology</i> , 2020 , 145, 111585	4.7	11
514	Protective Role of Glutathione against Peroxynitrite-Mediated DNA Damage During Acute Inflammation. <i>Chemical Research in Toxicology</i> , 2020 , 33, 2668-2674	4	6
513	In Vitro Activation of Cytochrome P450 46A1 (CYP46A1) by Efavirenz-Related Compounds. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 6477-6488	8.3	12
512	FEMA GRAS assessment of natural flavor complexes: Mint, buchu, dill and caraway derived flavoring ingredients. <i>Food and Chemical Toxicology</i> , 2020 , 135, 110870	4.7	12
511	A history of the roles of cytochrome P450 enzymes in the toxicity of drugs. <i>Toxicological Research</i> , 2020 , 37, 1-23	3.7	25
510	Synthesis and Characterization of Site-Specific O ⁻ -Alkylguanine DNA-Alkyl Transferase-Oligonucleotide Crosslinks. <i>Current Protocols in Nucleic Acid Chemistry</i> , 2019 , 76, e74	0.5	3
509	Glutamine-451 Confers Sensitivity to Oxidative Inhibition and Heme-Thiolate Sulfenylation of Cytochrome P450 4B1. <i>Chemical Research in Toxicology</i> , 2019 , 32, 484-492	4	2
508	Human cytochrome P450 enzymes bind drugs and other substrates mainly through conformational-selection modes. <i>Journal of Biological Chemistry</i> , 2019 , 294, 10928-10941	5.4	29
507	Mitochondrially targeted cytochrome P450 2D6 is involved in monomethylamine-induced neuronal damage in mouse models. <i>Journal of Biological Chemistry</i> , 2019 , 294, 10336-10348	5.4	5
506	Conformational selection dominates binding of steroids to human cytochrome P450 17A1. <i>Journal of Biological Chemistry</i> , 2019 , 294, 10028-10041	5.4	24
505	Human DNA polymerase β has reverse transcriptase activity in cellular environments. <i>Journal of Biological Chemistry</i> , 2019 , 294, 6073-6081	5.4	20
504	Isotopic tagging of oxidized and reduced cysteines (iTORC) for detecting and quantifying sulfenic acids, disulfides, and free thiols in cells. <i>Journal of Biological Chemistry</i> , 2019 , 294, 6522-6530	5.4	5

503	Celebrating the scientific legacy of Herbert Tabor. <i>Journal of Biological Chemistry</i> , 2019 , 294, 1635-1637	5.4	1
502	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
501	Cytochrome P450 research and. <i>Journal of Biological Chemistry</i> , 2019 , 294, 1671-1680	5.4	38
500	Site-specific oxidation of flavanone and flavone by cytochrome P450 2A6 in human liver microsomes. <i>Xenobiotica</i> , 2019 , 49, 791-802	2	9
499	The abundant DNA adduct -methyl deoxyguanosine contributes to miscoding during replication by human DNA polymerase β <i>Journal of Biological Chemistry</i> , 2019 , 294, 10253-10265	5.4	7
498	Human cytochrome P450 11B2 produces aldosterone by a processive mechanism due to the lactol form of the intermediate 18-hydroxycorticosterone. <i>Journal of Biological Chemistry</i> , 2019 , 294, 12975-12991	5.4	12
497	Validation of Human Sterol 14 β -Demethylase (CYP51) Druggability: Structure-Guided Design, Synthesis, and Evaluation of Stoichiometric, Functionally Irreversible Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2019 , 62, 10391-10401	8.3	11
496	A Role for the Orphan Human Cytochrome P450 2S1 in Polyunsaturated Fatty Acid -1 Hydroxylation Using an Untargeted Metabolomic Approach. <i>Drug Metabolism and Disposition</i> , 2019 , 47, 1325-1332	4	6
495	Kinetic Modeling of Steady-State Situations in Cytochrome P450 Enzyme Reactions. <i>Drug Metabolism and Disposition</i> , 2019 , 47, 1232-1239	4	5
494	Inhibition of Drug Metabolizing Enzymes 2019 , 223-251		1
493	FEMA GRAS assessment of natural flavor complexes: Citrus-derived flavoring ingredients. <i>Food and Chemical Toxicology</i> , 2019 , 124, 192-218	4.7	18
492	Cytochrome P450 2A6 and other human P450 enzymes in the oxidation of flavone and flavanone. <i>Xenobiotica</i> , 2019 , 49, 131-142	2	12
491	Mitochondria-Targeted Cytochromes P450 Modulate Adverse Drug Metabolism and Xenobiotic-Induced Toxicity 2018 , 35-46		
490	The safety evaluation of food flavouring substances: the role of metabolic studies. <i>Toxicology Research</i> , 2018 , 7, 618-646	2.6	12
489	Updated procedure for the safety evaluation of natural flavor complexes used as ingredients in food. <i>Food and Chemical Toxicology</i> , 2018 , 113, 171-178	4.7	17
488	Sulfenylation of Human Liver and Kidney Microsomal Cytochromes P450 and Other Drug-Metabolizing Enzymes as a Response to Redox Alteration. <i>Molecular and Cellular Proteomics</i> , 2018 , 17, 889-900	7.6	17
487	Introduction to Metals in Biology 2018: Copper homeostasis and utilization in redox enzymes. <i>Journal of Biological Chemistry</i> , 2018 , 293, 4603-4605	5.4	18
486	7,8-benzoflavone binding to human cytochrome P450 3A4 reveals complex fluorescence quenching, suggesting binding at multiple protein sites. <i>Journal of Biomolecular Structure and Dynamics</i> , 2018 , 36, 841-860	3.6	10

485	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
484	Formation and Cleavage of C-C Bonds by Enzymatic Oxidation-Reduction Reactions. <i>Chemical Reviews</i> , 2018 , 118, 6573-6655	68.1	115
483	Association of pharmacokinetic profiles of lenalidomide in human plasma simulated using pharmacokinetic data in humanized-liver mice with liver toxicity detected by human serum albumin RNA. <i>Journal of Toxicological Sciences</i> , 2018 , 43, 369-375	1.9	7
482	The Cytochrome P450 Slow Metabolizers CYP2C9*2 and CYP2C9*3 Directly Regulate Tumorigenesis via Reduced Epoxyeicosatrienoic Acid Production. <i>Cancer Research</i> , 2018 , 78, 4865-4877	10.1	20
481	Sterol 14 β -Demethylase Structure-Based Design of VNI ((R)-N-(1-(2,4-Dichlorophenyl)-2-(1H-imidazol-1-yl)ethyl)-4-(5-phenyl-1,3,4-oxadiazol-2-yl)benzamide)) Derivatives To Target Fungal Infections: Synthesis, Biological Evaluation, and Crystallographic Analysis. <i>Journal of Medicinal Chemistry</i> , 2018 , 61, 5679-5691	8.3	23
480	Inherent steroid 17 β -20-lyase activity in defunct cytochrome P450 17A enzymes. <i>Journal of Biological Chemistry</i> , 2018 , 293, 541-556	5.4	18
479	Sterol 14 β -Demethylase Structure-Based Optimization of Drug Candidates for Human Infections with the Protozoan Trypanosomatidae. <i>Journal of Medicinal Chemistry</i> , 2018 , 61, 10910-10921	8.3	13
478	Human cytochrome P450 enzymes 5-51 as targets of drugs and natural and environmental compounds: mechanisms, induction, and inhibition - toxic effects and benefits. <i>Drug Metabolism Reviews</i> , 2018 , 50, 256-342	7	19
477	Roles of Cytochrome P450 in Metabolism of Ethanol and Carcinogens. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1032, 15-35	3.6	30
476	Binding of a physiological substrate causes large-scale conformational reorganization in cytochrome P450 51. <i>Journal of Biological Chemistry</i> , 2018 , 293, 19344-19353	5.4	11
475	Mechanisms of Cytochrome P450-Catalyzed Oxidations. <i>ACS Catalysis</i> , 2018 , 8, 10964-10976	13.1	130
474	The relationships between cytochromes P450 and HO: Production, reaction, and inhibition. <i>Journal of Inorganic Biochemistry</i> , 2018 , 186, 228-234	4.2	33
473	Structural analyses of sterol 14 β -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
472	Formation of S-[2-(N-Deoxyadenosinyl)ethyl]glutathione in DNA and Replication Past the Adduct by Translesion DNA Polymerases. <i>Chemical Research in Toxicology</i> , 2017 , 30, 1188-1196	4	4
471	The Role of Oxysterols in Human Cancer. <i>Trends in Endocrinology and Metabolism</i> , 2017 , 28, 485-496	8.8	100
470	Introduction to Metals in Biology 2017: Iron transport, storage, and the ramifications. <i>Journal of Biological Chemistry</i> , 2017 , 292, 12725-12726	5.4	1
469	Heme-thiolate sulfenylation of human cytochrome P450 4A11 functions as a redox switch for catalytic inhibition. <i>Journal of Biological Chemistry</i> , 2017 , 292, 11230-11242	5.4	16
468	Functional analysis of human cytochrome P450 21A2 variants involved in congenital adrenal hyperplasia. <i>Journal of Biological Chemistry</i> , 2017 , 292, 10767-10778	5.4	26

467	Human DNA polymerase β accommodates RNA for strand extension. <i>Journal of Biological Chemistry</i> , 2017 , 292, 18044-18051	5.4	14
466	Induction of human cytochrome P450 3A enzymes in cultured placental cells by thalidomide and relevance to bioactivation and toxicity. <i>Journal of Toxicological Sciences</i> , 2017 , 42, 343-348	1.9	7
465	Human mitochondrial cytochrome P450 27C1 is localized in skin and preferentially desaturates -retinol to 3,4-dehydroretinol. <i>Journal of Biological Chemistry</i> , 2017 , 292, 13672-13687	5.4	16
464	The Dihydroxy Metabolite of the Teratogen Thalidomide Causes Oxidative DNA Damage. <i>Chemical Research in Toxicology</i> , 2017 , 30, 1622-1628	4	26
463	cytochrome P450 46A1 (CYP46A1) activation by neuroactive compounds. <i>Journal of Biological Chemistry</i> , 2017 , 292, 12934-12946	5.4	28
462	Kinetic processivity of the two-step oxidations of progesterone and pregnenolone to androgens by human cytochrome P450 17A1. <i>Journal of Biological Chemistry</i> , 2017 , 292, 13168-13185	5.4	29
461	Safety evaluation of substituted thiophenes used as flavoring ingredients. <i>Food and Chemical Toxicology</i> , 2017 , 99, 40-59	4.7	12
460	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
459	Metabolic profiles of pomalidomide in human plasma simulated with pharmacokinetic data in control and humanized-liver mice. <i>Xenobiotica</i> , 2017 , 47, 844-848	2	15
458	Kinetic Deuterium Isotope Effects in Cytochrome P450 Reactions. <i>Methods in Enzymology</i> , 2017 , 596, 217-238	1.7	28
457	Isotope-Labeling Studies Support the Electrophilic Compound I Iron Active Species, FeO(3+), for the Carbon-Carbon Bond Cleavage Reaction of the Cholesterol Side-Chain Cleavage Enzyme, Cytochrome P450 11A1. <i>Journal of the American Chemical Society</i> , 2016 , 138, 12124-41	16.4	17
456	Specificity of Protein Covalent Modification by the Electrophilic Proteasome Inhibitor Carfilzomib in Human Cells. <i>Molecular and Cellular Proteomics</i> , 2016 , 15, 3233-3242	7.6	19
455	Six Germline Genetic Variations Impair the Translesion Synthesis Activity of Human DNA Polymerase β <i>Chemical Research in Toxicology</i> , 2016 , 29, 1741-1754	4	6
454	Bypass of DNA-Protein Cross-links Conjugated to the 7-Deazaguanine Position of DNA by Translesion Synthesis Polymerases. <i>Journal of Biological Chemistry</i> , 2016 , 291, 23589-23603	5.4	24
453	Mechanisms of Insertion of dCTP and dTTP Opposite the DNA Lesion O6-Methyl-2'-deoxyguanosine by Human DNA Polymerase β <i>Journal of Biological Chemistry</i> , 2016 , 291, 24304-24313	5.4	12
452	Recent Structural Insights into Cytochrome P450 Function. <i>Trends in Pharmacological Sciences</i> , 2016 , 37, 625-640	13.2	166
451	20-Hydroxyeicosatetraenoic Acid (HETE)-dependent Hypertension in Human Cytochrome P450 (CYP) 4A11 Transgenic Mice: NORMALIZATION OF BLOOD PRESSURE BY SODIUM RESTRICTION, HYDROCHLOROTHIAZIDE, OR BLOCKADE OF THE TYPE 1 ANGIOTENSIN II RECEPTOR. <i>Journal of Biological Chemistry</i> , 2016 , 291, 16904-19	5.4	23
450	Mechanism of 17 β -Estradiol 17-OHase and New Hydroxylation Reactions of Human Cytochrome P450 17A1: 18O LABELING AND OXYGEN SURROGATE EVIDENCE FOR A ROLE OF A PERFERRYL OXYGEN. <i>Journal of Biological Chemistry</i> , 2016 , 291, 17143-64	5.4	41

449	Human sterol 14 α -demethylase as a target for anticancer chemotherapy: towards structure-aided drug design. <i>Journal of Lipid Research</i> , 2016 , 57, 1552-63	6.3	34
448	Combining Chimeric Mice with Humanized Liver, Mass Spectrometry, and Physiologically-Based Pharmacokinetic Modeling in Toxicology. <i>Chemical Research in Toxicology</i> , 2016 , 29, 1903-1911	4	29
447	Oxidation of pyrene, 1-hydroxypyrene, 1-nitropyrene and 1-acetylpirene by human cytochrome P450 2A13. <i>Xenobiotica</i> , 2016 , 46, 211-24	2	15
446	Effects of Twelve Germline Missense Variations on DNA Lesion and G-Quadruplex Bypass Activities of Human DNA Polymerase REV1. <i>Chemical Research in Toxicology</i> , 2016 , 29, 367-79	4	9
445	Mechanism of Ribonucleotide Incorporation by Human DNA Polymerase β <i>Journal of Biological Chemistry</i> , 2016 , 291, 3747-56	5.4	23
444	Structural and Kinetic Analysis of Miscoding Opposite the DNA Adduct 1,N ⁶ -Ethenodeoxyadenosine by Human Translesion DNA Polymerase β <i>Journal of Biological Chemistry</i> , 2016 , 291, 14134-14145	5.4	12
443	Human cytochrome P450 27C1 catalyzes 3,4-desaturation of retinoids. <i>FEBS Letters</i> , 2016 , 590, 1304-12	3.8	19
442	Pre-Steady-State Kinetic Analysis of Single-Nucleotide Incorporation by DNA Polymerases. <i>Current Protocols in Nucleic Acid Chemistry</i> , 2016 , 65, 7.23.1-7.23.10	0.5	5
441	FEMA expert panel review of p-mentha-1,8-dien-7-ol genotoxicity testing results. <i>Food and Chemical Toxicology</i> , 2016 , 98, 201-209	4.7	6
440	Cytochrome P450 metabolism of the post-lanosterol intermediates explains enigmas of cholesterol synthesis. <i>Scientific Reports</i> , 2016 , 6, 28462	4.9	24
439	Kinetic analysis of bypass of 7,8-dihydro-8-oxo-2'-deoxyguanosine by the catalytic core of yeast DNA polymerase β <i>Biochimie</i> , 2016 , 121, 161-9	4.6	15
438	Mechanisms of mutagenesis: DNA replication in the presence of DNA damage. <i>Mutation Research - Reviews in Mutation Research</i> , 2016 , 768, 53-67	7	37
437	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
436	Kinetic and Structural Impact of Metal Ions and Genetic Variations on Human DNA Polymerase β <i>Journal of Biological Chemistry</i> , 2016 , 291, 21063-21073	5.4	7
435	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
434	Metals in Biology 2016: Molecular Basis of Selection of Metals by Enzymes. <i>Journal of Biological Chemistry</i> , 2016 , 291, 20838-20839	5.4	6
433	Assessment of Protein Binding of 5-Hydroxythalidomide Bioactivated in Humanized Mice with Human P450 3A-Chromosome or Hepatocytes by Two-Dimensional Electrophoresis/Accelerator Mass Spectrometry. <i>Chemical Research in Toxicology</i> , 2016 , 29, 1279-81	4	13
432	Introduction: Metals in Biology: METALS AT THE HOST-PATHOGEN INTERFACE. <i>Journal of Biological Chemistry</i> , 2015 , 290, 18943-4	5.4	5

431	Research Resource: Correlating Human Cytochrome P450 21A2 Crystal Structure and Phenotypes of Mutations in Congenital Adrenal Hyperplasia. <i>Molecular Endocrinology</i> , 2015 , 29, 1375-84		16
430	Polymerase Bypass of N(6)-Deoxyadenosine Adducts Derived from Epoxide Metabolites of 1,3-Butadiene. <i>Chemical Research in Toxicology</i> , 2015 , 28, 1496-507	4	15
429	Cytochrome P450 3A Enzymes Catalyze the O6-Demethylation of Thebaine, a Key Step in Endogenous Mammalian Morphine Biosynthesis. <i>Journal of Biological Chemistry</i> , 2015 , 290, 20200-10	5-4	24
428	Differential repair of etheno-DNA adducts by bacterial and human AlkB proteins. <i>DNA Repair</i> , 2015 , 30, 1-10	4-3	26
427	Aromatic hydroxylation of salicylic acid and aspirin by human cytochromes P450. <i>European Journal of Pharmaceutical Sciences</i> , 2015 , 73, 49-56	5-1	27
426	Introduction to thematic series: protein interactions, structures, and networks. <i>Journal of Biological Chemistry</i> , 2015 , 290, 26393-4	5-4	
425	Simulation of Human Plasma Concentrations of Thalidomide and Primary 5-Hydroxylated Metabolites Explored with Pharmacokinetic Data in Humanized TK-NOG Mice. <i>Chemical Research in Toxicology</i> , 2015 , 28, 2088-90	4	22
424	Structural and kinetic analysis of nucleoside triphosphate incorporation opposite an abasic site by human translesion DNA polymerase η . <i>Journal of Biological Chemistry</i> , 2015 , 290, 8028-38	5-4	37
423	Structure-Functional Characterization of Cytochrome P450 Sterol 14 β -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
422	Roles of Residues Arg-61 and Gln-38 of Human DNA Polymerase η in Bypass of Deoxyguanosine and 7,8-Dihydro-8-oxo-2'-deoxyguanosine. <i>Journal of Biological Chemistry</i> , 2015 , 290, 15921-33	5-4	29
421	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
420	Mass Spectrometry of Nucleic Acids 2015 , 1-39		1
419	Structure and function of the translesion DNA polymerases and interactions with damaged DNA. <i>Perspectives in Science</i> , 2015 , 4, 24-31	0.8	6
418	Characterization of thioether-linked protein adducts of DNA using a Raney-Ni-mediated desulfurization method and liquid chromatography-electrospray-tandem mass spectrometry. <i>Current Protocols in Nucleic Acid Chemistry</i> , 2015 , 60, 10.15.1-10.15.14	0.5	
417	Human Cytochrome P450 Enzymes 2015 , 523-785		60
416	Human Cytochrome P450 21A2, the Major Steroid 21-Hydroxylase: STRUCTURE OF THE ENZYME PROGESTERONE SUBSTRATE COMPLEX AND RATE-LIMITING C-H BOND CLEAVAGE. <i>Journal of Biological Chemistry</i> , 2015 , 290, 13128-43	5-4	55
415	Next-generation sequencing reveals the biological significance of the N(2),3-ethenoguanine lesion in vivo. <i>Nucleic Acids Research</i> , 2015 , 43, 5489-500	20.1	28
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122	Selection and characterization of human cytochrome P450 1A2 mutants with altered catalytic properties. <i>Biochemistry</i> , 1999 , 38, 5283-9	3.2	109
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120	Explanation of pre-steady-state kinetics and decreased burst amplitude of HIV-1 reverse transcriptase at sites of modified DNA bases with an additional, nonproductive enzyme-DNA-nucleotide complex. <i>Biochemistry</i> , 1999 , 38, 4818-25	3.2	44
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113	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
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109	Misincorporation of nucleotides opposite five-membered exocyclic ring guanine derivatives by escherichia coli polymerases in vitro and in vivo: 1,N2-ethenoguanine, 5,6,7,9-tetrahydro-9-oxoimidazo[1, 2-a]purine, and 5,6,7,9-tetrahydro-7-hydroxy-9-oxoimidazo[1, 2-a]purine. <i>Biochemistry</i> , 1998 , 37, 5184-93	3.2	65
108	Membrane insertion of cytochrome P450 1A2 promoted by anionic phospholipids. <i>Biochemistry</i> , 1998 , 37, 12860-6	3.2	61

107	Polymerase blockage and misincorporation of dNTPs opposite the ethylene dibromide-derived DNA adducts S-[2-(N7-guanyl)ethyl]glutathione, S-[2-(N2-guanyl)ethyl]glutathione, and S-[2-(O6-guanyl)ethyl]glutathione. <i>Chemical Research in Toxicology</i> , 1998 , 11, 311-6	4	24
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103	Detection of free radicals produced from the reaction of cytochrome P-450 with linoleic acid hydroperoxide. <i>Biochemical Journal</i> , 1997 , 328 (Pt 2), 565-71	3.8	56
102	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
101	Cooperativity in oxidations catalyzed by cytochrome P450 3A4. <i>Biochemistry</i> , 1997 , 36, 370-81	3.2	340
100	Misincorporation of dNTPs opposite 1,N2-ethenoguanine and 5,6,7,9-tetrahydro-7-hydroxy-9-oxoimidazo[1,2-a]purine in oligonucleotides by Escherichia coli polymerases I exo- and II exo-, T7 polymerase exo-, human immunodeficiency virus-1 reverse transcriptase, and human immunodeficiency virus-1 reverse transcriptase. <i>Biochemistry</i> , 1997 , 36, 14741-50	3.2	54
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