

# Nico P E Vermeulen

## List of Publications by Citations

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#	Paper	IF	Citations
271	Fish bioaccumulation and biomarkers in environmental risk assessment: a review. <i>Environmental Toxicology and Pharmacology</i> , <b>2003</b> , 13, 57-149	5.8	3086
270	Biomarkers of free radical damage applications in experimental animals and in humans. <i>Free Radical Biology and Medicine</i> , <b>1999</b> , 26, 202-26	7.8	596
269	Paracetamol (acetaminophen)-induced toxicity: molecular and biochemical mechanisms, analogues and protective approaches. <i>Critical Reviews in Toxicology</i> , <b>2001</b> , 31, 55-138	5.7	517
268	Enzyme-catalyzed activation of anticancer prodrugs. <i>Pharmacological Reviews</i> , <b>2004</b> , 56, 53-102	22.5	402
267	Managing the challenge of chemically reactive metabolites in drug development. <i>Nature Reviews Drug Discovery</i> , <b>2011</b> , 10, 292-306	64.1	348
266	Genetic polymorphisms of human N-acetyltransferase, cytochrome P450, glutathione-S-transferase, and epoxide hydrolase enzymes: relevance to xenobiotic metabolism and toxicity. <i>Critical Reviews in Toxicology</i> , <b>1999</b> , 29, 59-124	5.7	234
265	Oxygen and xenobiotic reductase activities of cytochrome P450. <i>Critical Reviews in Toxicology</i> , <b>1995</b> , 25, 25-65	5.7	196
264	Cytochrome p450 in silico: an integrative modeling approach. <i>Journal of Medicinal Chemistry</i> , <b>2005</b> , 48, 2725-55	8.3	187
263	Effects of curcumin on cytochrome P450 and glutathione S-transferase activities in rat liver. <i>Biochemical Pharmacology</i> , <b>1996</b> , 51, 39-45	6	177
262	Variability in nifedipine pharmacokinetics and dynamics: a new oxidation polymorphism in man. <i>Biochemical Pharmacology</i> , <b>1984</b> , 33, 3721-4	6	165
261	A predictive model for substrates of cytochrome P450-debrisoquine (2D6). <i>Chemical Research in Toxicology</i> , <b>1992</b> , 5, 211-9	4	145
260	Biomonitoring of aquatic pollution with feral eel ( <i>Anguilla anguilla</i> ) II. Biomarkers: pollution-induced biochemical responses. <i>Aquatic Toxicology</i> , <b>1996</b> , 36, 189-222	5.1	140
259	The role of water molecules in computational drug design. <i>Current Topics in Medicinal Chemistry</i> , <b>2010</b> , 10, 55-66	3	138
258	Catalytic site prediction and virtual screening of cytochrome P450 2D6 substrates by consideration of water and rescoring in automated docking. <i>Journal of Medicinal Chemistry</i> , <b>2006</b> , 49, 2417-30	8.3	124
257	Inhibition of human recombinant cytochrome P450s by curcumin and curcumin decomposition products. <i>Toxicology</i> , <b>2007</b> , 235, 83-91	4.4	117
256	Binding mode prediction of cytochrome p450 and thymidine kinase protein-ligand complexes by consideration of water and rescoring in automated docking. <i>Journal of Medicinal Chemistry</i> , <b>2005</b> , 48, 2308-18	8.3	110
255	Metabolism and kinetics of trichloroethylene in relation to toxicity and carcinogenicity. Relevance of the mercapturic acid pathway. <i>Chemical Research in Toxicology</i> , <b>1995</b> , 8, 3-21	4	109

254	Simultaneous determination of tyrosine, phenylalanine and deoxyguanosine oxidation products by liquid chromatography-tandem mass spectrometry as non-invasive biomarkers for oxidative damage. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2004</b> , 799, 245-54	3.2	107
253	Mercapturic acids, protein adducts, and DNA adducts as biomarkers of electrophilic chemicals. <i>Critical Reviews in Toxicology</i> , <b>1992</b> , 22, 271-306	5.7	107
252	Cytotoxic and cytoprotective activities of curcumin. Effects on paracetamol-induced cytotoxicity, lipid peroxidation and glutathione depletion in rat hepatocytes. <i>Biochemical Pharmacology</i> , <b>1990</b> , 39, 1869-75	6	105
251	Homology modeling of rat and human cytochrome P450 2D (CYP2D) isoforms and computational rationalization of experimental ligand-binding specificities. <i>Journal of Medicinal Chemistry</i> , <b>2003</b> , 46, 74-86	8.3	104
250	Synthesis of novel Se-substituted selenocysteine derivatives as potential kidney selective prodrugs of biologically active selenol compounds: evaluation of kinetics of beta-elimination reactions in rat renal cytosol. <i>Journal of Medicinal Chemistry</i> , <b>1996</b> , 39, 2040-6	8.3	99
249	Identification of critical residues in novel drug metabolizing mutants of cytochrome P450 BM3 using random mutagenesis. <i>Journal of Medicinal Chemistry</i> , <b>2007</b> , 50, 455-61	8.3	95
248	Monitoring of oxidative free radical damage in vivo: analytical aspects. <i>Chemico-Biological Interactions</i> , <b>1992</b> , 82, 243-93	5	92
247	A three-dimensional protein model for human cytochrome P450 2D6 based on the crystal structures of P450 101, P450 102, and P450 108. <i>Chemical Research in Toxicology</i> , <b>1996</b> , 9, 1079-91	4	91
246	Heterotropic and homotropic cooperativity by a drug-metabolising mutant of cytochrome P450 BM3. <i>Biochemical and Biophysical Research Communications</i> , <b>2006</b> , 346, 810-8	3.4	84
245	Prediction of ligand binding affinity and orientation of xenoestrogens to the estrogen receptor by molecular dynamics simulations and the linear interaction energy method. <i>Journal of Medicinal Chemistry</i> , <b>2004</b> , 47, 1018-30	8.3	82
244	Classification of cytochrome P450 1A2 inhibitors and noninhibitors by machine learning techniques. <i>Drug Metabolism and Disposition</i> , <b>2009</b> , 37, 658-64	4	81
243	Application of drug metabolising mutants of cytochrome P450 BM3 (CYP102A1) as biocatalysts for the generation of reactive metabolites. <i>Chemico-Biological Interactions</i> , <b>2008</b> , 171, 96-107	5	80
242	Biomonitoring aquatic pollution with feral eel ( <i>Anguilla anguilla</i> ) I. Bioaccumulation: biota-sediment ratios of PCBs, OCPs, PCDDs and PCDFs. <i>Aquatic Toxicology</i> , <b>1996</b> , 35, 21-46	5.1	79
241	Evaluation of a multi-parameter biomarker set for oxidative damage in man: increased urinary excretion of lipid, protein and DNA oxidation products after one hour of exercise. <i>Free Radical Research</i> , <b>2004</b> , 38, 1269-79	4	77
240	Diclofenac inhibits tumor necrosis factor- $\beta$ -induced nuclear factor- $\kappa$ B activation causing synergistic hepatocyte apoptosis. <i>Hepatology</i> , <b>2011</b> , 53, 2027-41	11.2	76
239	The mechanism of prevention of paracetamol-induced hepatotoxicity by 3,5-dialkyl substitution. The roles of glutathione depletion and oxidative stress. <i>Biochemical Pharmacology</i> , <b>1987</b> , 36, 2065-70	6	73
238	Virtual screening and prediction of site of metabolism for cytochrome P450 1A2 ligands. <i>Journal of Chemical Information and Modeling</i> , <b>2009</b> , 49, 43-52	6.1	71
237	The metabolic formation of N-acetyl-S-2-hydroxyethyl-L-cysteine from tetradeutero-1,2-dibromoethane. relative importance of oxidation and glutathione conjugation in vivo. <i>Biochemical Pharmacology</i> , <b>1981</b> , 30, 2499-502	6	70

236	Pharmacokinetics of lignocaine and bupivacaine in surgical patients following epidural administration. Simultaneous investigation of absorption and disposition kinetics using stable isotopes. <i>Clinical Pharmacokinetics</i> , <b>1987</b> , 13, 191-203	6.2	68
235	Molecular and biochemical mechanisms of chemically induced nephrotoxicity: a review. <i>Chemical Research in Toxicology</i> , <b>1990</b> , 3, 171-94	4	67
234	A refined substrate model for human cytochrome P450 2D6. <i>Chemical Research in Toxicology</i> , <b>1997</b> , 10, 41-8	4	66
233	The role of lipid peroxidation in the nephrotoxicity of cisplatin. <i>Biochemical Pharmacology</i> , <b>1992</b> , 44, 1198-9		64
232	Formation of estrogenic metabolites of benzo[a]pyrene and chrysene by cytochrome P450 activity and their combined and supra-maximal estrogenic activity. <i>Environmental Toxicology and Pharmacology</i> , <b>2005</b> , 19, 41-55	5.8	63
231	Computational prediction of drug binding and rationalisation of selectivity towards cytochromes P450. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , <b>2008</b> , 4, 513-27	5.5	60
230	Liquid chromatography/tandem mass spectrometry detection of covalent binding of acetaminophen to human serum albumin. <i>Drug Metabolism and Disposition</i> , <b>2007</b> , 35, 1408-17	4	58
229	Metabolic regio- and stereoselectivity of cytochrome P450 2D6 towards 3,4-methylenedioxy-N-alkylamphetamines: in silico predictions and experimental validation. <i>Journal of Medicinal Chemistry</i> , <b>2005</b> , 48, 6117-27	8.3	56
228	Are automated molecular dynamics simulations and binding free energy calculations realistic tools in lead optimization? An evaluation of the linear interaction energy (LIE) method. <i>Journal of Chemical Information and Modeling</i> , <b>2006</b> , 46, 1972-83	6.1	56
227	Design, synthesis, and characterization of 7-methoxy-4-(aminomethyl)coumarin as a novel and selective cytochrome P450 2D6 substrate suitable for high-throughput screening. <i>Chemical Research in Toxicology</i> , <b>1999</b> , 12, 555-9	4	56
226	Activation of the microsomal glutathione-S-transferase and reduction of the glutathione dependent protection against lipid peroxidation by acrolein. <i>Biochemical Pharmacology</i> , <b>1988</b> , 37, 1933-8	6	56
225	4-Hydroxy-2,3-trans-nonanal stimulates microsomal lipid peroxidation by reducing the glutathione-dependent protection. <i>Archives of Biochemistry and Biophysics</i> , <b>1987</b> , 259, 449-56	4.1	54
224	Nephrotoxicity of mercapturic acids of three structurally related 2,2-difluoroethylenes in the rat. Indications for different bioactivation mechanisms. <i>Biochemical Pharmacology</i> , <b>1988</b> , 37, 4495-504	6	54
223	Biomonitoring aquatic pollution with feral eel ( <i>Anguilla anguilla</i> ). III. Statistical analyses of relationships between contaminant exposure and biomarkers. <i>Aquatic Toxicology</i> , <b>1997</b> , 39, 45-75	5.1	53
222	Evaluation of alkoxyresorufins as fluorescent substrates for cytochrome P450 BM3 and site-directed mutants. <i>Analytical Biochemistry</i> , <b>2005</b> , 341, 148-55	3.1	53
221	. <i>Environmental Toxicology and Chemistry</i> , <b>1994</b> , 13, 859	3.8	53
220	Role of human glutathione S-transferases in the inactivation of reactive metabolites of clozapine. <i>Chemical Research in Toxicology</i> , <b>2010</b> , 23, 1467-76	4	52
219	Selenoxidation by flavin-containing monooxygenases as a novel pathway for beta-elimination of selenocysteine Se-conjugates. <i>Chemical Research in Toxicology</i> , <b>2001</b> , 14, 127-34	4	52

218	Prediction of drug metabolism: the case of cytochrome P450 2D6. <i>Current Topics in Medicinal Chemistry</i> , <b>2003</b> , 3, 1227-39	3	51
217	Effect of thiols on lipid peroxidation in rat liver microsomes. <i>Chemico-Biological Interactions</i> , <b>1989</b> , 71, 201-12	5	51
216	Comparative study on the bioactivation mechanisms and cytotoxicity of Te-phenyl-L-tellurocysteine, Se-phenyl-L-selenocysteine, and S-phenyl-L-cysteine. <i>Chemical Research in Toxicology</i> , <b>2002</b> , 15, 1610-8	4	50
215	Toxicity of the cysteine-S-conjugates and mercapturic acids of four structurally related difluoroethylenes in isolated proximal tubular cells from rat kidney. Uptake of the conjugates and activation to toxic metabolites. <i>Biochemical Pharmacology</i> , <b>1989</b> , 38, 3731-41	6	50
214	A preliminary 3D model for cytochrome P450 2D6 constructed by homology model building. <i>Journal of Computer-Aided Molecular Design</i> , <b>1993</b> , 7, 281-9	4.2	48
213	Nephrotoxicity and hepatotoxicity of 1,1-dichloro-2,2-difluoroethylene in the rat. Indications for differential mechanisms of bioactivation. <i>Biochemical Pharmacology</i> , <b>1987</b> , 36, 4229-37	6	48
212	A theoretical study on the metabolic activation of paracetamol by cytochrome P-450: indications for a uniform oxidation mechanism. <i>Chemical Research in Toxicology</i> , <b>1989</b> , 2, 60-6	4	45
211	A single active site mutation inverts stereoselectivity of 16-hydroxylation of testosterone catalyzed by engineered cytochrome P450 BM3. <i>ChemBioChem</i> , <b>2012</b> , 13, 520-3	3.8	43
210	Role of residue 87 in substrate selectivity and regioselectivity of drug-metabolizing cytochrome P450 CYP102A1 M11. <i>Journal of Biological Inorganic Chemistry</i> , <b>2011</b> , 16, 899-912	3.7	42
209	The use of human in vitro metabolic parameters to explore the risk assessment of hazardous compounds: the case of ethylene dibromide. <i>Toxicology and Applied Pharmacology</i> , <b>1997</b> , 143, 56-69	4.6	42
208	Influence of phenylalanine 120 on cytochrome P450 2D6 catalytic selectivity and regiospecificity: crucial role in 7-methoxy-4-(aminomethyl)-coumarin metabolism. <i>Biochemical Pharmacology</i> , <b>2004</b> , 68, 2263-71	6	42
207	Biochemical markers in feral roach ( <i>Rutilus rutilus</i> ) in relation to the bioaccumulation of organic trace pollutants. <i>Chemosphere</i> , <b>1994</b> , 29, 801-817	8.4	40
206	Mutagenicity and cytotoxicity of two regioisomeric mercapturic acids and cysteine S-conjugates of trichloroethylene. <i>Archives of Toxicology</i> , <b>1991</b> , 65, 373-80	5.8	40
205	Analysis of mercapturic acids as a tool in biotransformation, biomonitoring and toxicological studies. <i>Trends in Pharmacological Sciences</i> , <b>1989</b> , 10, 177-81	13.2	40
204	Molecular modeling-guided site-directed mutagenesis of cytochrome P450 2D6. <i>Current Drug Metabolism</i> , <b>2007</b> , 8, 59-77	3.5	39
203	The mechanism of interaction between cisplatin and selenite. <i>Biochemical Pharmacology</i> , <b>1991</b> , 41, 1429-37		39
202	Characterization of human cytochrome P450s involved in the bioactivation of clozapine. <i>Drug Metabolism and Disposition</i> , <b>2013</b> , 41, 651-8	4	38
201	Legacy data sharing to improve drug safety assessment: the eTOX project. <i>Nature Reviews Drug Discovery</i> , <b>2017</b> , 16, 811-812	64.1	37

200	Metabolism related toxicity of diclofenac in yeast as model system. <i>Toxicology Letters</i> , <b>2011</b> , 200, 162-8	4.4	37
199	Structural rationalization of novel drug metabolizing mutants of cytochrome P450 BM3. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2008</b> , 71, 336-52	4.2	37
198	Determination and identification of estrogenic compounds generated with biosynthetic enzymes using hyphenated screening assays, high resolution mass spectrometry and off-line NMR. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2010</b> , 878, 667-74	3.2	36
197	Simultaneous determination of eight lipid peroxidation degradation products in urine of rats treated with carbon tetrachloride using gas chromatography with electron-capture detection. <i>Biomedical Applications</i> , <b>1997</b> , 694, 277-87		36
196	Trimethoprim: novel reactive intermediates and bioactivation pathways by cytochrome p450s. <i>Chemical Research in Toxicology</i> , <b>2008</b> , 21, 2181-7	4	36
195	Selective induction of cytochrome P450 3A1 by dexamethasone in cultured rat hepatocytes: analysis with a novel reverse transcriptase-polymerase chain reaction assay section sign. <i>Biochemical Pharmacology</i> , <b>2000</b> , 60, 1509-18	6	36
194	A Comparative Linear Interaction Energy and MM/PBSA Study on SIRT1-Ligand Binding Free Energy Calculation. <i>Journal of Chemical Information and Modeling</i> , <b>2019</b> , 59, 4018-4033	6.1	34
193	Evidence-based selection of training compounds for use in the mechanism-based integrated prediction of drug-induced liver injury in man. <i>Archives of Toxicology</i> , <b>2016</b> , 90, 2979-3003	5.8	34
192	Assessment of environmental quality and inland water pollution using biomarker responses in caged carp ( <i>Cyprinus carpio</i> ): Use of a bioactivation:detoxication ratio as a Biotransformation Index (BTI). <i>Marine Environmental Research</i> , <b>1998</b> , 46, 315-319	3.3	34
191	Structure-activity relationships for the inhibition of recombinant human cytochromes P450 by curcumin analogues. <i>European Journal of Medicinal Chemistry</i> , <b>2008</b> , 43, 1621-31	6.8	34
190	Cytochrome P-450-mediated oxidation of substrates by electron-transfer; role of oxygen radicals and of 1- and 2-electron oxidation of paracetamol. <i>Chemico-Biological Interactions</i> , <b>1988</b> , 64, 267-80	5	34
189	Inter-donor variability of phase I/phase II metabolism of three reference drugs in cryopreserved primary human hepatocytes in suspension and monolayer. <i>Toxicology in Vitro</i> , <b>2016</b> , 33, 71-9	3.6	33
188	Efficient screening of cytochrome P450 BM3 mutants for their metabolic activity and diversity toward a wide set of drug-like molecules in chemical space. <i>Drug Metabolism and Disposition</i> , <b>2011</b> , 39, 1568-76	4	33
187	Combining substrate dynamics, binding statistics, and energy barriers to rationalize regioselective hydroxylation of octane and lauric acid by CYP102A1 and mutants. <i>Protein Science</i> , <b>2007</b> , 16, 420-31	6.3	33
186	Role of the conserved threonine 309 in mechanism of oxidation by cytochrome P450 2D6. <i>Biochemical and Biophysical Research Communications</i> , <b>2005</b> , 338, 1065-74	3.4	33
185	Rapid on-line profiling of estrogen receptor binding metabolites of tamoxifen. <i>Journal of Medicinal Chemistry</i> , <b>2006</b> , 49, 3287-92	8.3	33
184	Induction of glutathione-S-transferase mRNA levels by chemopreventive selenocysteine Se-conjugates. <i>Biochemical Pharmacology</i> , <b>2002</b> , 63, 1843-9	6	32
183	The role of phenylalanine 483 in cytochrome P450 2D6 is strongly substrate dependent. <i>Biochemical Pharmacology</i> , <b>2005</b> , 70, 1253-61	6	32

182	Role of hepatic microsomal and purified cytochrome P-450 in one-electron reduction of two quinone imines and concomitant reduction of molecular oxygen. <i>Biochemical Pharmacology</i> , <b>1987</b> , 36, 613-9	6	32
181	Computational prediction of binding affinity for CYP1A2-ligand complexes using empirical free energy calculations. <i>Drug Metabolism and Disposition</i> , <b>2010</b> , 38, 1347-54	4	31
180	Cytotoxicity of a series of mono- and di-substituted thiourea in freshly isolated rat hepatocytes: a preliminary structure-toxicity relationship study. <i>Toxicology</i> , <b>1998</b> , 125, 117-29	4.4	31
179	Contribution of 4-hydroxy-2,3-trans-nonenal to the reduction of beta-adrenoceptor function in the heart by oxidative stress. <i>Life Sciences</i> , <b>1989</b> , 45, 71-6	6.8	31
178	Paracetamol, 3-monoalkyl- and 3,5-dialkyl derivatives. Comparison of their microsomal cytochrome P-450 dependent oxidation and toxicity in freshly isolated hepatocytes. <i>Biochemical Pharmacology</i> , <b>1986</b> , 35, 3693-9	6	30
177	Regio- and Stereoselective Hydroxylation of Optically Active Nonone Enantiomers by Engineered Cytochrome P450 BM3 Mutants. <i>Advanced Synthesis and Catalysis</i> , <b>2012</b> , 354, 2172-2184	5.6	29
176	Oxidative N-Dealkylation of p-Cyclopropyl-N,N-dimethylaniline. A Substituent Effect on a Radical-Clock Reaction Rationalized by Ab Initio Calculations on Radical Cation Intermediates. <i>Journal of Organic Chemistry</i> , <b>1997</b> , 62, 8227-8230	4.2	29
175	Glutathione-S-transferase pi as a model protein for the characterisation of chemically reactive metabolites. <i>Proteomics</i> , <b>2008</b> , 8, 301-15	4.8	29
174	Escherichia coli MTC, a human NADPH P450 reductase competent mutagenicity tester strain for the expression of human cytochrome P450 isoforms 1A1, 1A2, 2A6, 3A4, or 3A5: catalytic activities and mutagenicity studies. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , <b>1999</b> , 441, 73-83	3	29
173	Activation of microsomal glutathione S-transferase and inhibition of cytochrome P450 1A1 activity as a model system for detecting protein alkylation by thiourea-containing compounds in rat liver microsomes. <i>Chemical Research in Toxicology</i> , <b>1999</b> , 12, 396-402	4	29
172	Mechanism of protection of ebselen against paracetamol-induced toxicity in rat hepatocytes. <i>Biochemical Pharmacology</i> , <b>1994</b> , 48, 1631-40	6	29
171	Interactions between cytochromes P450, glutathione S-transferases and Ghanaian medicinal plants. <i>Food and Chemical Toxicology</i> , <b>2008</b> , 46, 3598-603	4.7	28
170	Evaluation of a novel high-throughput assay for cytochrome P450 2D6 using 7-methoxy-4-(aminomethyl)-coumarin. <i>European Journal of Pharmaceutical Sciences</i> , <b>2000</b> , 12, 151-8	5.1	28
169	One-electron reductive bioactivation of 2,3,5,6-tetramethylbenzoquinone by cytochrome P450. <i>Biochemical Pharmacology</i> , <b>1992</b> , 43, 343-52	6	28
168	Metabolism of L-cysteine S-conjugates and N-(trideuteroacetyl)-L-cysteine S-conjugates of four fluoroethylenes in the rat. Role of balance of deacetylation and acetylation in relation to the nephrotoxicity of mercapturic acids. <i>Biochemical Pharmacology</i> , <b>1991</b> , 42, 31-8	6	28
167	Effect of UGT2B7*2 and CYP2C8*4 polymorphisms on diclofenac metabolism. <i>Toxicology Letters</i> , <b>2018</b> , 284, 70-78	4.4	28
166	Application of engineered cytochrome P450 mutants as biocatalysts for the synthesis of benzylic and aromatic metabolites of fenamic acid NSAIDs. <i>Bioorganic and Medicinal Chemistry</i> , <b>2014</b> , 22, 5613-20 <sup>3-4</sup>		27
165	Differential involvement of mitochondrial dysfunction, cytochrome P450 activity, and active transport in the toxicity of structurally related NSAIDs. <i>Toxicology in Vitro</i> , <b>2012</b> , 26, 197-205	3.6	27

164	Modeling the active sites of cytochrome P450s and glutathione S-transferases, two of the most important biotransformation enzymes. <i>Drug Metabolism Reviews</i> , <b>1997</b> , 29, 747-99	7	27
163	Evaluation of urinary biomarkers for radical-induced liver damage in rats treated with carbon tetrachloride. <i>Toxicology and Applied Pharmacology</i> , <b>1998</b> , 148, 71-82	4.6	27
162	Comparative cytotoxicity of N-substituted NP(4-imidazole-ethyl)thiourea in precision-cut rat liver slices. <i>Toxicology</i> , <b>2004</b> , 197, 81-91	4.4	27
161	Human NAD(P)H:quinone oxidoreductase 1 (NQO1)-mediated inactivation of reactive quinoneimine metabolites of diclofenac and mefenamic acid. <i>Chemical Research in Toxicology</i> , <b>2014</b> , 27, 576-86	4	26
160	Development of a novel cytochrome p450 bioaffinity detection system coupled online to gradient reversed-phase high-performance liquid chromatography. <i>Journal of Biomolecular Screening</i> , <b>2005</b> , 10, 427-36		26
159	Bioactivation of chemopreventive selenocysteine Se-conjugates and related amino acids by amino acid oxidases novel route of metabolism of selenoamino acids. <i>Chemical Research in Toxicology</i> , <b>2001</b> , 14, 996-1005	4	26
158	High-performance liquid chromatography-fluorescence assay of pyruvic acid to determine cysteine conjugate beta-lyase activity: application to S-1,2-dichlorovinyl-L-cysteine and S-2-benzothiazolyl-L-cysteine. <i>Analytical Biochemistry</i> , <b>1992</b> , 206, 334-43	3.1	26
157	Insights into regioselective metabolism of mefenamic acid by cytochrome P450 BM3 mutants through crystallography, docking, molecular dynamics, and free energy calculations. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2016</b> , 84, 383-96	4.2	25
156	Mass spectrometric characterization of protein adducts of multiple P450-dependent reactive intermediates of diclofenac to human glutathione-S-transferase P1-1. <i>Chemical Research in Toxicology</i> , <b>2012</b> , 25, 2532-41	4	25
155	Enantioselective substrate binding in a monooxygenase protein model by molecular dynamics and docking. <i>Biophysical Journal</i> , <b>2006</b> , 91, 3206-16	2.9	24
154	Comparative cytotoxicity of 14 novel selenocysteine Se-conjugates in rat renal proximal tubular cells. <i>Toxicology and Applied Pharmacology</i> , <b>1996</b> , 141, 278-287	4.6	24
153	Characterization of cytochrome P450 isoforms involved in sequential two-step bioactivation of diclofenac to reactive p-benzoquinone imines. <i>Toxicology Letters</i> , <b>2016</b> , 253, 46-54	4.4	24
152	Cytochrome P450-mediated bioactivation of mefenamic acid to quinoneimine intermediates and inactivation by human glutathione S-transferases. <i>Chemical Research in Toxicology</i> , <b>2014</b> , 27, 2071-81	4	23
151	Biosynthesis of a steroid metabolite by an engineered <i>Rhodococcus erythropolis</i> strain expressing a mutant cytochrome P450 BM3 enzyme. <i>Applied Microbiology and Biotechnology</i> , <b>2015</b> , 99, 4713-21	5.7	22
150	Linear Interaction Energy Based Prediction of Cytochrome P450 1A2 Binding Affinities with Reliability Estimation. <i>PLoS ONE</i> , <b>2015</b> , 10, e0142232	3.7	22
149	Characterization of enzyme activities and cofactors involved in bioactivation and bioinactivation of chemical carcinogens in the tester strains <i>Escherichia coli</i> K12 MX100 and <i>Salmonella typhimurium</i> LT2 TA100. <i>Mutagenesis</i> , <b>1997</b> , 12, 245-54	2.8	22
148	Application of lipid peroxidation and protein oxidation biomarkers for oxidative damage in mammalian cells. A comparison with two fluorescent probes. <i>Toxicology in Vitro</i> , <b>2006</b> , 20, 1005-13	3.6	22
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146	Escherichia coli MTC, a NADPH cytochrome P450 reductase competent mutagenicity tester strain for the expression of human cytochrome P450: comparison of three types of expression systems. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , <b>1999</b> , 439, 287-300	3	21
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21	Direct comparison of UDP-glucuronosyltransferase and cytochrome P450 activities in human liver microsomes, plated and suspended primary human hepatocytes from five liver donors. <i>European Journal of Pharmaceutical Sciences</i> , <b>2017</b> , 109, 96-110	5.1	3

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18	The effect of acetaminophen on ubiquitin homeostasis in <i>Saccharomyces cerevisiae</i> . <i>PLoS ONE</i> , <b>2017</b> , 12, e0173573	3.7	3
17	Bioaccumulation of Organic Micropollutants in Different Aquatic Organisms: Sublethal Toxic Effects on Fish166-166-15		3
16	Bioassays for the detection of chemicals that can form bioactivation-dependent reactive free radicals. <i>Environmental Toxicology and Chemistry</i> , <b>1999</b> , 18, 1236-1243	3.8	2
15	Reduction of antitumour mitosenes in non-aqueous and aqueous environment. An electron spin resonance and cyclic voltammetry study. <i>Free Radical Research</i> , <b>1995</b> , 22, 109-21	4	2
14	The EU chemicals strategy for sustainability: in support of the BfR position. <i>Archives of Toxicology</i> , <b>2021</b> , 95, 3133-3136	5.8	2
13	Mini-dialysis tubes as tools to prepare drug-protein adducts of P450-dependent reactive drug metabolites. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2015</b> , 103, 17-25	3.5	1
12	High-performance liquid chromatography-based assay for glutathione transferase theta 2 activity: Application to characterize interindividual variability in human liver fractions. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2018</b> , 156, 181-188	3.5	1
11	Acetaminophen reduces the protein levels of high affinity amino acid permeases and causes tryptophan depletion. <i>Amino Acids</i> , <b>2018</b> , 50, 1377-1390	3.5	1
10	Influence of the rate of hepatic portal vein infusion on hexobarbital pharmacokinetics in the rat. <i>Pharmacology</i> , <b>1988</b> , 36, 210-6	2.3	1
9	The influence of pretreatment on the urinary metabolite profile of pseudoracemic hexobarbital. <i>Biochemical Pharmacology</i> , <b>1986</b> , 35, 3166-9	6	1
8	The role and application of in silico docking in chemical genomics research. <i>Methods in Molecular Biology</i> , <b>2005</b> , 310, 63-91	1.4	1
7	Glossary and tutorial of xenobiotic metabolism terms used during small molecule drug discovery and development (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , <b>2021</b> , 93, 273-403	2.1	1
6	Protective effects of lobenzarit against allyl alcohol-induced hepatotoxicity in mice and rats. <i>Environmental Toxicology and Pharmacology</i> , <b>1997</b> , 3, 129-35	5.8	0
5	Modeling and molecular dynamics of glutamine transaminase K/cysteine conjugate beta-lyase. <i>Journal of Molecular Graphics and Modelling</i> , <b>2003</b> , 22, 55-70	2.8	
4	Trichloroethylene Risk Assessment: Relevance of Interindividual Differences. <i>Human and Ecological Risk Assessment (HERA)</i> , <b>2001</b> , 7, 717-726	4.9	
3	Active site mapping of various cytochromes P450 isozymes. <i>European Journal of Pharmacology</i> , <b>1990</b> , 183, 181	5.3	



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1 Critique of the "Comment" entitled "Pyrethroid exposure: Not so harmless after all" by Demeneix et al. (2020) published in the lancet diabetes endocrinology. *Toxicology Letters*, **2021**, 340, 1-3 4-4