Peter J O'brien

List of Publications by Year
in descending order

#	Article	IF	Citations
1	Methotrexate induced mitochondrial injury and cytochrome c release in rat liver hepatocytes. Drug and Chemical Toxicology, 2018, 41, 51-61.	2.3	54
2	Risk factors for colorectal cancer in man induce aberrant crypt foci in rats: Preliminary findings. Nutrition and Cancer, 2016, 68, 94-104.	2.0	8
3	Design of Hybrid MnO₂â€Polymerâ€Lipid Nanoparticles with Tunable Oxygen Generation Rates and Tumor Accumulation for Cancer Treatment. Advanced Functional Materials, 2015, 25, 1858-1872.	14.9	182
4	Hybrid Nanoparticles: Design of Hybrid MnO2-Polymer-Lipid Nanoparticles with Tunable Oxygen Generation Rates and Tumor Accumulation for Cancer Treatment (Adv. Funct. Mater. 12/2015). Advanced Functional Materials, 2015, 25, 1857-1587.	14.9	8
5	Protective effects of ferulic acid and related polyphenols against glyoxal- or methylglyoxal-induced cytotoxicity and oxidative stress in isolated rat hepatocytes. Chemico-Biological Interactions, 2015, 234, 96-104.	4.0	57
6	Evaluation of Azathioprine-Induced Cytotoxicity in an<i>In Vitro</i>Rat Hepatocyte System. BioMed Research International, 2014, 2014, 1-7.	1.9	16
7	Glyoxal and methylglyoxal: Autoxidation from dihydroxyacetone and polyphenol cytoprotective antioxidant mechanisms. Chemico-Biological Interactions, 2013, 202, 267-274.	4.0	13
8	Acrolein and chloroacetaldehyde: An examination of the cell and cell-free biomarkers of toxicity. Chemico-Biological Interactions, 2013, 202, 259-266.	4.0	35
9	A-CD Estrogens. I. Substituent Effects, Hormone Potency, and Receptor Subtype Selectivity in a New Family of Flexible Estrogenic Compounds. Journal of Medicinal Chemistry, 2011, 54, 433-448.	6.4	22
10	Rescuing hepatocytes from iron-catalyzed oxidative stress using vitamins B1 and B6. Toxicology in Vitro, 2011, 25, 1114-1122.	2.4	19
11	Metabolic mechanisms of methanol/formaldehyde in isolated rat hepatocytes: Carbonyl-metabolizing enzymes versus oxidative stress. Chemico-Biological Interactions, 2011, 191, 308-314.	4.0	38
12	Differences in glyoxal and methylglyoxal metabolism determine cellular susceptibility to protein carbonylation and cytotoxicity. Chemico-Biological Interactions, 2011, 191, 322-329.	4.0	38
13	Cytotoxic effects of polychlorinated biphenyl hydroquinone metabolites in rat hepatocytes. Journal of Applied Toxicology, 2010, 30, 163-171.	2.8	10
14	Cytoprotection by almond skin extracts or catechins of hepatocyte cytotoxicity induced by hydroperoxide (oxidative stress model) versus glyoxal or methylglyoxal (carbonylation model). Chemico-Biological Interactions, 2010, 185, 101-109.	4.0	26
15	Hepatocyte or serum albumin protein carbonylation by oxidized fructose metabolites: Glyceraldehyde or glycolaldehyde as endogenous toxins?. Chemico-Biological Interactions, 2010, 188, 31-37.	4.0	14
16	Hepatocyte cytotoxicity induced by hydroperoxide (oxidative stress model) or glyoxal (carbonylation) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 324-331.	4.0	21
17	Cytoprotective mechanisms of carbonyl scavenging drugs in isolated rat hepatocytes. Chemico-Biological Interactions, 2009, 178, 317-323.	4.0	39
18	Amodiaquine-induced oxidative stress in a hepatocyte inflammation model. Toxicology, 2009, 256, 101-109.	4.2	31

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19	Preventing cell death induced by carbonyl stress, oxidative stress or mitochondrial toxins with vitamin B antiâ€AGE agents. Molecular Nutrition and Food Research, 2008, 52, 379-385.	3.3	30
20	Tetramethylphenylenediamine-induced hepatocyte cytotoxicity caused by lysosomal labilisation and redox cycling with oxygen activation. Chemico-Biological Interactions, 2008, 172, 39-47.	4.0	6
21	Accelerated Cytotoxic Mechanism Screening of Hydralazine Using an in Vitro Hepatocyte Inflammatory Cell Peroxidase Model. Chemical Research in Toxicology, 2008, 21, 904-910.	3.3	13
22	Copper-catalyzed ascorbate oxidation results in glyoxal/AGE formation and cytotoxicity. Molecular Nutrition and Food Research, 2007, 51, 445-455.	3.3	17
23	Prevention of hydrogen sulfide (H2S)-induced mouse lethality and cytotoxicity by hydroxocobalamin (vitamin B12a). Toxicology, 2007, 242, 16-22.	4.2	71
24	Hepatocyte susceptibility to glyoxal is dependent on cell thiamin content. Chemico-Biological Interactions, 2007, 165, 146-154.	4.0	29
25	Structureâ€"activity relationships for halobenzene induced cytotoxicity in rat and human hepatoctyes. Chemico-Biological Interactions, 2007, 165, 165-174.	4.0	41
26	Molecular cytotoxic mechanisms of catecholic polychlorinated biphenyl metabolites in isolated rat hepatocytes. Chemico-Biological Interactions, 2007, 167, 184-192.	4.0	20
27	Mitochondrial function and toxicity: Role of the B vitamin family on mitochondrial energy metabolism. Chemico-Biological Interactions, 2006, 163, 94-112.	4.0	347
28	Glyoxal markedly compromises hepatocyte resistance to hydrogen peroxide. Biochemical Pharmacology, 2006, 71, 1610-1618.	4.4	28
29	Application of quantitative structureâ€"toxicity relationships for acute NSAID cytotoxicity in rat hepatocytes. Chemico-Biological Interactions, 2005, 151, 177-191.	4.0	43
30	The biosynthesis of ascorbate protects isolated rat hepatocytes from cumene hydroperoxide-mediated oxidative stress. Free Radical Biology and Medicine, 2005, 38, 867-873.	2.9	12
31	Peroxidases: a role in the metabolism and side effects of drugs. Drug Discovery Today, 2005, 10, 617-625.	6.4	68
32	Drug-induced mitochondrial toxicity. Expert Opinion on Drug Metabolism and Toxicology, 2005, 1, 655-669.	3.3	149
33	Aldehyde Sources, Metabolism, Molecular Toxicity Mechanisms, and Possible Effects on Human Health. Critical Reviews in Toxicology, 2005, 35, 609-662.	3.9	590
34	The effects of partial thiamin deficiency and oxidative stress (i.e., glyoxal and methylglyoxal) on the levels of Î±-oxoaldehyde plasma protein adducts in Fischer 344 rats. FEBS Letters, 2005, 579, 5596-5602.	2.8	24
35	Application of Quantitative Structure-Toxicity Relationships for the Comparison of the Cytotoxicity of 14 p-Benzoquinone Congeners in Primary Cultured Rat Hepatocytes Versus PC12 Cells. Toxicological Sciences, 2004, 81, 148-159.	3.1	71
36	Potential toxicity of flavonoids and other dietary phenolics: significance for their chemopreventive and anticancer properties. Free Radical Biology and Medicine, 2004, 37, 287-303.	2.9	876

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37	The cytotoxic mechanism of glyoxal involves oxidative stress. Biochemical Pharmacology, 2004, 68, 1433-1442.	4.4	146
38	Quantitative structure toxicity relationships for catechols in isolated rat hepatocytes. Chemico-Biological Interactions, 2004, 147, 297-307.	4.0	39
39	Human and animal hepatocytes in vitro with extrapolation in vivo. Chemico-Biological Interactions, 2004, 150, 97-114.	4.0	77
40	H2S cytotoxicity mechanism involves reactive oxygen species formation and mitochondrial depolarisation. Toxicology, 2004, 203, 69-76.	4.2	182
41	Metabolism, not autoxidation, plays a role in alpha-oxoaldehyde- and reducing sugar-induced erythrocyte GSH depletion: relevance for diabetes mellitus. Molecular and Cellular Biochemistry, 2003, 252, 331-338.	3.1	47
42	Effects of phosphodiesterase 3,4,5 inhibitors on hepatocyte cAMP levels, glycogenolysis, gluconeogenesis and susceptibility to a mitochondrial toxin. Molecular and Cellular Biochemistry, 2003, 252, 205-211.	3.1	80
43	Dietary flavonoid iron complexes as cytoprotective superoxide radical scavengers. Free Radical Biology and Medicine, 2003, 34, 243-253.	2.9	205
44	Modulating carbonyl cytotoxicity in intact rat hepatocytes by inhibiting carbonyl-metabolizing enzymes. I. Aliphatic alkenals. Chemico-Biological Interactions, 2003, 143-144, 107-117.	4.0	23
45	Quantitative structure toxicity relationships for phenols in isolated rat hepatocytes. Chemico-Biological Interactions, 2003, 145, 213-223.	4.0	89
46	Metabolism of caffeic acid by isolated rat hepatocytes and subcellular fractions. Toxicology Letters, 2002, 133, 141-151.	0.8	62
47	Endogenous and endobiotic induced reactive oxygen species formation by isolated hepatocytes. Free Radical Biology and Medicine, 2002, 32, 2-10.	2.9	100
48	Prooxidant activity and cellular effects of the phenoxyl radicals of dietary flavonoids and other polyphenolics. Toxicology, 2002, 177, 91-104.	4.2	467
49	Catechin Metabolism:â€‰ Glutathione Conjugate Formation Catalyzed by Tyrosinase, Peroxidase, and Cytochrome P450. Chemical Research in Toxicology, 2001, 14, 841-848.	3.3	87
50	Fanconi anemia group C protein prevents apoptosis in hematopoietic cells through redox regulation of GSTP1. Nature Medicine, 2001, 7, 814-820.	30.7	235
51	Cytochrome P450 2E1 metabolically activates propargyl alcohol: propiolaldehyde-induced hepatocyte cytotoxicity. Chemico-Biological Interactions, 2001, 130-132, 931-942.	4.0	20
52	The formaldehyde metabolic detoxification enzyme systems and molecular cytotoxic mechanism in isolated rat hepatocytes. Chemico-Biological Interactions, 2001, 130-132, 285-296.	4.0	169
53	Peroxidative metabolism of apigenin and naringenin versus luteolin and quercetin: glutathione oxidation and conjugation. Free Radical Biology and Medicine, 2001, 30, 370-382.	2.9	186
54	A comparison of hepatocyte cytotoxic mechanisms for Cu2+ and Cd2+. Toxicology, 2000, 143, 263-273.	4.2	246

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55	Contrasting role of Na+ ions in modulating Cu+2 or Cd+2 induced hepatocyte toxicity. Chemico-Biological Interactions, 2000, 126, 159-169.	4.0	36
56	Peroxidases. Chemico-Biological Interactions, 2000, 129, 113-139.	4.0	228
57	Superoxide radical scavenging and attenuation of hypoxia-reoxygenation injury by neurotransmitter ferric complexes in isolated rat hepatocytes. Neuroscience Letters, 2000, 296, 37-40.	2.1	21
58	Catecholic iron complexes as cytoprotective superoxide scavengers against hypoxia:reoxygenation injury in isolated hepatocytes. Biochemical Pharmacology, 1998, 56, 825-830.	4.4	33
59	The Involvement of Cytochrome P450 Peroxidase in the Metabolic Bioactivation of Cumene Hydroperoxide by Isolated Rat Hepatocytes. Chemical Research in Toxicology, 1996, 9, 924-931.	3.3	16
60	The Involvement of Cytochrome P4502E1 in 2â€Bromoethanolâ€Induced Hepatocyte Cytotoxicity. Basic and Clinical Pharmacology and Toxicology, 1996, 78, 241-248.	0.0	7
61	1-Bromoalkanes as new potent nontoxic glutathione depletors in isolated rat hepatocytes. Biochemical and Biophysical Research Communications, 1991, 179, 436-441.	2.1	105
62	The Adriamycin (doxorubicin)-induced inactivation of cytochrome c oxidase depends on the presence of iron or copper. Xenobiotica, 1989, 19, 231-241.	1.1	15
63	Currentin vitro Models to Study Drug-Induced Liver Injury. , 0, , 1-55.		3
64	Human and Animal-Based Differences in Hepatic Xenobiotic Metabolism and Toxicity. , 0, , 537-561.		0
65	Tetrahydropapaveroline, an Endogenous Dicatechol Isoquinoline Neurotoxin. , 0, , 733-746.		0
66	Appendix: Questions for Discussion. , 0, , 907-913.		0
67	Genotoxicity of Endogenous Estrogens. , 0, , 859-879.		0
68	Glyceraldehyde-Related Reaction Products. , 0, , 213-225.		0