Marie Stiborova

List of Publications by Year
in descending order

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329 papers	11,533 citations	30070 54 h-index	42399 92 g-index
337 all docs	337 docs citations	337 times ranked	12143 citing authors

#	Article	IF	Citations
1	Histone Deacetylase Inhibitors as Anticancer Drugs. International Journal of Molecular Sciences, 2017, 18, 1414.	4.1	890
2	The Role of Metallothionein in Oxidative Stress. International Journal of Molecular Sciences, 2013, 14, 6044-6066.	4.1	632
3	Flavonoids-potent and versatile biologically active compounds interacting with cytochromes P450. Chemico-Biological Interactions, 2002, 139, 1-21.	4.0	487
4	Aristolochic acid as a probable human cancer hazard in herbal remedies: a review. Mutagenesis, 2002, 17, 265-277.	2.6	433
5	Mammalian metallothioneins: properties and functions. Metallomics, 2012, 4, 739.	2.4	212
6	Sudan I is a potential carcinogen for humans: evidence for its metabolic activation and detoxication by human recombinant cytochrome P450 1A1 and liver microsomes. Cancer Research, 2002, 62, 5678-84.	0.9	200
7	32P-post-labelling analysis of DNA adducts formed by aristolochic acid in tissues from patients with Chinese herbs nephropathy. Carcinogenesis, 1997, 18, 1063-1067.	2.8	173
8	Aristolochic acid mutagenesis: molecular clues to the aetiology of Balkan endemic nephropathy-associated urothelial cancer. Carcinogenesis, 2007, 28, 2253-2261.	2.8	159
9	Sanguinarine and chelerythrine: assessment of safety on pigs in ninety days feeding experiment. Food and Chemical Toxicology, 2004, 42, 85-91.	3.6	154
10	The Epidemiology, Diagnosis, and Management of Aristolochic Acid Nephropathy. Annals of Internal Medicine, 2013, 158, 469.	3.9	142
11	The anticancer agent ellipticine on activation by cytochrome P450 forms covalent DNA adductsa †1a †Supported by German Cancer Research Center, Grant Agency of the Czech Republic (grant) 1j ETQq1 1 0.784314 rgBT /O 3-[(3-cholamidopropyl)-dimethylammonio]-1-propane sulfonate; CYP, cytochrome P450; IC50, 50% inhibitory dose; MDR, multidrug resistance; PEI, polyethyleneimine. Biochemical Pharmacology, 2001, 62	4.4	138
12	The Anticancer Drug Ellipticine Forms Covalent DNA Adducts, Mediated by Human Cytochromes P450, through Metabolism to 13-Hydroxyellipticine and Ellipticine N2-Oxide. Cancer Research, 2004, 64, 8374-8380.	0.9	125
13	Anthracyclines and ellipticines as DNA-damaging anticancer drugs: Recent advances. , 2012, 133, 26-39.		125
14	Human Enzymes Involved in the Metabolic Activation of Carcinogenic Aristolochic Acids:â€‰ Evidence for Reductive Activation by Cytochromes P450 1A1 and 1A2. Chemical Research in Toxicology, 2001, 14, 1128-1137.	3.3	120
15	Environmental Pollutant and Potent Mutagen 3-Nitrobenzanthrone Forms DNA Adducts after Reduction by NAD(P)H:Quinone Oxidoreductase and Conjugation by Acetyltransferases and Sulfotransferases in Human Hepatic Cytosols. Cancer Research, 2005, 65, 2644-2652.	0.9	118
16	Mutagenicity and DNA adduct formation of PAH, nitro-PAH, and oxy-PAH fractions of atmospheric particulate matter from SÃ£o Paulo, Brazil. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2008, 652, 72-80.	1.7	116
17	Metabolic activation of benzo[a]pyrene in vitro by hepatic cytochrome P450 contrasts with detoxification in vivo: experiments with hepatic cytochrome P450 reductase null mice. Carcinogenesis, 2007, 29, 656-665.	2.8	115
18	Metabolic activation of carcinogenic aristolochic acid, a risk factor for Balkan endemic nephropathy. Mutation Research - Reviews in Mutation Research, 2008, 658, 55-67.	5.5	103

#	Article	IF	Citations
19	Human cytosolic enzymes involved in the metabolic activation of carcinogenic aristolochic acid: evidence for reductive activation by human NAD(P)H:quinone oxidoreductase. Carcinogenesis, 2003, 24, 1695-1703.	2.8	97
20	Balkan endemic nephropathy: an update on its aetiology. Archives of Toxicology, 2016, 90, 2595-2615.	4.2	97
21	Characterization of DNA adducts formed by aristolochic acids in the target organ (forestomach) of rats by 32P-postlabelling analysis using different chromatographic procedures. Carcinogenesis, 1994, 15, 1187-1192.	2.8	95
22	Expression of cytochrome P450 1A1 and its contribution to oxidation of a potential human carcinogen 1-phenylazo-2-naphthol (Sudan I) in human livers. Cancer Letters, 2005, 220, 145-154.	7.2	95
23	Sarcosine as a Potential Prostate Cancer Biomarkerâ€"A Review. International Journal of Molecular Sciences, 2013, 14, 13893-13908.	4.1	93
24	Effect of heavy metal ions on growth and biochemical characteristics of photosynthesis of barley and maize seedlings. Biologia Plantarum, 1987, 29, 453-467.	1.9	90
25	Human hepatic and renal microsomes, cytochromes P450 1A1/2, NADPH:Cytochrome P450 reductase and prostaglandin H synthase mediate the formation of aristolochic acid-DNA adducts found in patients with urothelial cancer. International Journal of Cancer, 2005, 113, 189-197.	5.1	90
26	Vertebrate metallothioneins as target molecules for analytical techniques. TrAC - Trends in Analytical Chemistry, 2010, 29, 409-418.	11.4	90
27	Is aristolochic acid a risk factor for Balkan endemic nephropathyâ€associated urothelial cancer?. International Journal of Cancer, 2002, 101, 500-502.	5.1	89
28	Carcinogenic aristolochic acids upon activation by DT-diaphorase form adducts found in DNA of patients with Chinese herbs nephropathy. Carcinogenesis, 2002, 23, 617-625.	2.8	85
29	Exceptionally long-term persistence of DNA adducts formed by carcinogenic aristolochic acid I in renal tissue from patients with aristolochic acid nephropathy. International Journal of Cancer, 2014, 135, 502-507.	5.1	80
30	Metallothioneins and zinc in cancer diagnosis and therapy. Drug Metabolism Reviews, 2012, 44, 287-301.	3.6	77
31	Comparison of DNA adduct formation by aristolochic acids in various in vitro activation systems by 32P-post-labelling: evidence for reductive activation by peroxidases. Carcinogenesis, 1997, 18, 1055-1062.	2.8	76
32	DNA adduct formation from quaternary benzo[c]phenanthridine alkaloids sanguinarine and chelerythrine as revealed by the 32P-postlabeling technique. Chemico-Biological Interactions, 2002, 140, 231-242.	4.0	76
33	Evaluation of Isoflavone Aglycon and Glycoside Distribution in Soy Plants and Soybeans by Fast Column High-Performance Liquid Chromatography Coupled with a Diode-Array Detector. Journal of Agricultural and Food Chemistry, 2005, 53, 5848-5852.	5.2	73
34	Pulmonary Inflammation Impacts on CYP1A1-Mediated Respiratory Tract DNA Damage Induced by the Carcinogenic Air Pollutant Benzo[a]pyrene. Toxicological Sciences, 2015, 146, 213-225.	3.1	68
35	Insight to Physiology and Pathology of Zinc(II) Ions and Their Actions in Breast and Prostate Carcinoma. Current Medicinal Chemistry, 2011, 18, 5041-5051.	2.4	67
36	DNA Adducts Formed by Aristolochic Acid Are Unique Biomarkers of Exposure and Explain the Initiation Phase of Upper Urothelial Cancer. International Journal of Molecular Sciences, 2017, 18, 2144.	4.1	67

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37	DNA adduct formation by the anticancer drug ellipticine in rats determined by32P postlabeling. International Journal of Cancer, 2003, 107, 885-890.	5.1	66
38	Modern Micro and Nanoparticle-Based Imaging Techniques. Sensors, 2012, 12, 14792-14820.	3.8	66
39	Evidence for reductive activation of carcinogenic aristolochic acids by prostaglandin H synthase â€" 32P-postlabeling analysis of DNA adduct formation. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2001, 493, 149-160.	1.7	65
40	Rat Microsomes Activating the Anticancer Drug Ellipticine to Species Covalently Binding to Deoxyguanosine in DNA Are a Suitable Model Mimicking Ellipticine Bioactivation in Humans. Chemical Research in Toxicology, 2003, 16, 38-47.	3.3	65
41	Determination of isoflavones in soy bits by fast column high-performance liquid chromatography coupled with UVâ€"visible diode-array detection. Journal of Chromatography A, 2005, 1084, 71-79.	3.7	65
42	Î±5Î²1 integrin antagonists reduce chemotherapyâ€induced premature senescence and facilitate apoptosis in human glioblastoma cells. International Journal of Cancer, 2010, 127, 1240-1248.	5.1	65
43	Ellipticine cytotoxicity to cancer cell lines - a comparative study. Interdisciplinary Toxicology, 2011, 4, 98-105.	1.0	64
44	Biotransformation enzymes in development of renal injury and urothelial cancer caused by aristolochic acid. Kidney International, 2008, 73, 1209-1211.	5.2	63
45	3-Aminobenzanthrone, a Human Metabolite of the Environmental Pollutant 3-Nitrobenzanthrone, Forms DNA Adducts after Metabolic Activation by Human and Rat Liver Microsomes:â€‰ Evidence for Activation by Cytochrome P450 1A1 and P450 1A2. Chemical Research in Toxicology, 2004, 17, 1092-1101.	3.3	62
46	Site-Directed Conjugation of Antibodies to Apoferritin Nanocarrier for Targeted Drug Delivery to Prostate Cancer Cells. ACS Applied Materials & Interfaces, 2016, 8, 14430-14441.	8.0	61
47	MOLECULAR MECHANISMS OF ANTINEOPLASTIC ACTION OF AN ANTICANCER DRUG ELLIPTICINE. Biomedical Papers of the Medical Faculty of the University Palacký, Olomouc, Czechoslovakia, 2006, 150, 13-23.	0.6	61
48	Human enzymes involved in the metabolic activation of the environmental contaminant 3-nitrobenzanthrone: evidence for reductive activation by human NADPH:cytochrome p450 reductase. Cancer Research, 2003, 63, 2752-61.	0.9	61
49	The Synergistic Effects of DNA-Targeted Chemotherapeutics and Histone Deacetylase Inhibitors As Therapeutic Strategies for Cancer Treatment. Current Medicinal Chemistry, 2012, 19, 4218-4238.	2.4	60
50	Cisplatin-resistant prostate cancer model: Differences in antioxidant system, apoptosis and cell cycle. International Journal of Oncology, 2014, 44, 923-933.	3.3	58
51	Benzenediazonium Ion Derived from Sudan I Forms an 8-(Phenylazo)guanine Adduct in DNA. Chemical Research in Toxicology, 1995, 8, 489-498.	3.3	57
52	Bioactivation versus Detoxication of the Urothelial Carcinogen Aristolochic Acid I by Human Cytochrome P450 1A1 and 1A2. Toxicological Sciences, 2012, 125, 345-358.	3.1	57
53	Electrochemical sensing of etoposide using carbon quantum dot modified glassy carbon electrode. Analyst, The, 2016, 141, 2665-2675.	3.5	57
54	Cytochrome P450- and peroxidase-mediated oxidation of anticancer alkaloid ellipticine dictates its anti-tumor efficiency. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 175-185.	2.3	56

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55	Role of Cytochromes P450 1A1/2 in Detoxication and Activation of Carcinogenic Aristolochic Acid I: Studies with the Hepatic NADPH:Cytochrome P450 Reductase Null (HRN) Mouse Model. Toxicological Sciences, 2011, 121, 43-56.	3.1	56
56	Apoferritin Modified Magnetic Particles as Doxorubicin Carriers for Anticancer Drug Delivery. International Journal of Molecular Sciences, 2013, 14, 13391-13402.	4.1	56
57	The impact of individual cytochrome P450 enzymes on oxidative metabolism of benzo[a]pyrene in human livers. Environmental and Molecular Mutagenesis, 2016, 57, 229-235.	2.2	56
58	Bioactivation of 3-aminobenzanthrone, a human metabolite of the environmental pollutant 3-nitrobenzanthrone: evidence for DNA adduct formation mediated by cytochrome P450 enzymes and peroxidases. Cancer Letters, 2006, 234, 220-231.	7.2	55
59	The mechanism of cytotoxicity and DNA adduct formation by the anticancer drug ellipticine in human neuroblastoma cells. Biochemical Pharmacology, 2009, 77, 1466-1479.	4.4	55
60	Utilizing of Square Wave Voltammetry to Detect Flavonoids in the Presence of Human Urine. Sensors, 2007, 7, 2402-2418.	3.8	54
61	Mammalian peroxidases activate anticancer drug ellipticine to intermediates forming deoxyguanosine adducts in DNA identical to those foundin vivo and generated from 12-hydroxyellipticine and 13-hydroxyellipticine. International Journal of Cancer, 2007, 120, 243-251.	5.1	54
62	Covalent binding of the anticancer drug ellipticine to DNA in V79 cells transfected with human cytochrome P450 enzymes. Biochemical Pharmacology, 2002, 64, 289-295.	4.4	53
63	Histone deacetylase inhibitors in cancer therapy. A review. Biomedical Papers of the Medical Faculty of the University Palacký, Olomouc, Czechoslovakia, 2014, 158, 161-169.	0.6	53
64	THE ENVIRONMENTAL POLLUTANT AND CARCINOGEN 3-NITROBENZANTHRONE AND ITS HUMAN METABOLITE 3-AMINOBENZANTHRONE ARE POTENT INDUCERS OF RAT HEPATIC CYTOCHROMES P450 1A1 AND -1A2 AND NAD(P)H:QUINONE OXIDOREDUCTASE. Drug Metabolism and Disposition, 2006, 34, 1398-1405.	3.3	51
65	A Comparative Study of the Effect of Heavy Metal Ions on Ribulose-1,5-bisphosphate Carboxylase and Phosphoenolpyruvate Carboxylase. Biochemie Und Physiologie Der Pflanzen, 1986, 181, 373-379.	0.5	49
66	Cd2+ Ions Affect the Quaternary Structure of Ribulose-1, 5-bisphosphate Carboxylase from Barley Leaves. Biochemie Und Physiologie Der Pflanzen, 1988, 183, 371-378.	0.5	48
67	Balkan Endemic Nephropathy and the Causative Role of Aristolochic Acid. Seminars in Nephrology, 2019, 39, 284-296.	1.6	48
68	Ellipticines as DNA-Targeted Chemotherapeutics. Current Medicinal Chemistry, 2014, 21, 575-591.	2.4	48
69	Enzymes Metabolizing Aristolochic Acid and their Contribution to the Development of Aristolochic Acid Nephropathy and Urothelial Cancer. Current Drug Metabolism, 2013, 14, 695-705.	1.2	48
70	The relationship between DNA adduct formation by benzo[a]pyrene and expression of its activation enzyme cytochrome P450 1A1 in rat. Environmental Toxicology and Pharmacology, 2013, 36, 989-996.	4.0	46
71	Mechanism of formation and 32P-postlabeling of DNA adducts derived from peroxidative activation of carcinogenic non-aminoazo dye 1-phenylazo-2-hydroxynaphthalene (Sudan I). Carcinogenesis, 1990, 11, 1843-1848.	2.8	45
72	Role of hepatic cytochromes P450 in bioactivation of the anticancer drug ellipticine: Studies with the hepatic NADPH:Cytochrome P450 reductase null mouse. Toxicology and Applied Pharmacology, 2008, 226, 318-327.	2.8	44

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73	The first identification of the benzenediazonium ion formation from a non-aminoazo dye, 1-phenylazo-2-hydroxynaphthalene (Sudan I) by microsomes of rat livers. Cancer Letters, 1988, 40, 319-326.	7.2	43
74	Aerobic degradation of 2,4-dinitrotoluene by individual bacterial strains and defined mixed population in submerged cultures. Journal of Hazardous Materials, 2011, 192, 605-613.	12.4	43
75	Cytochrome b5 shifts oxidation of the anticancer drug ellipticine by cytochromes P450 1A1 and 1A2 from its detoxication to activation, thereby modulating its pharmacological efficacy. Biochemical Pharmacology, 2011, 82, 669-680.	4.4	42
76	The human carcinogen aristolochic acid i is activated to form DNA adducts by human NAD(P)H:quinone oxidoreductase without the contribution of acetyltransferases or sulfotransferases. Environmental and Molecular Mutagenesis, 2011, 52, 448-459.	2.2	42
77	The binding of aristolochic acid I to the active site of human cytochromes P450 1A1 and 1A2 explains their potential to reductively activate this human carcinogen. Cancer Letters, 2005, 229, 193-204.	7.2	41
78	Formation and persistence of DNA adducts formed by the carcinogenic air pollutant 3-nitrobenzanthrone in target and non-target organs after intratracheal instillation in rats. Carcinogenesis, 2007, 28, 1117-1121.	2.8	41
79	Cytochrome b5 and epoxide hydrolase contribute to benzo[a]pyrene-DNA adduct formation catalyzed by cytochrome P450 1A1 under low NADPH:P450 oxidoreductase conditions. Toxicology, 2014, 318, 1-12.	4.2	41
80	The synergistic effects of DNA-damaging drugs cisplatin and etoposide with a histone deacetylase inhibitor valproate in high-risk neuroblastoma cells. International Journal of Oncology, 2015, 47, 343-352.	3.3	41
81	Sarcosine Up-Regulates Expression of Genes Involved in Cell Cycle Progression of Metastatic Models of Prostate Cancer. PLoS ONE, 2016, 11, e0165830.	2.5	41
82	Role of P450 1A1 and P450 1A2 in Bioactivation versus Detoxication of the Renal Carcinogen Aristolochic Acid I: Studies in Cyp1a1(â^'/â^'), Cyp1a2(â^'/â^'), and Cyp1a1/1a2(â^'/â^') Mice. Chemical Research in Toxicology, 2011, 24, 1710-1719.	3.3	39
83	Identification of benzo[c]phenanthridine metabolites in human hepatocytes by liquid chromatography with electrospray ion-trap and quadrupole time-of-flight mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2011, 879, 1077-1085.	2.3	38
84	Mechanism of peroxidase-mediated oxidation of carcinogenic o-anisidine and its binding to DNA. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2002, 500, 49-66.	1.0	37
85	DNA adduct formation by the anticancer drug ellipticine in human leukemia HL-60 and CCRF-CEM cells. Cancer Letters, 2007, 252, 270-279.	7.2	37
86	Ellipticine oxidation and DNA adduct formation in human hepatocytes is catalyzed by human cytochromes P450 and enhanced by cytochrome b5. Toxicology, 2012, 302, 233-241.	4.2	37
87	Chemical and molecular basis of the carcinogenicity of Aristolochia plants. Current Opinion in Drug Discovery & Development, 2009, 12, 141-8.	1.9	37
88	Identification of a genotoxic mechanism for the carcinogenicity of the environmental pollutant and suspected human carcinogeno-anisidine. International Journal of Cancer, 2005, 116, 667-678.	5.1	36
89	The Anticancer Drug Ellipticine Is a Potent Inducer of Rat Cytochromes P450 1A1 and 1A2, Thereby Modulating Its Own Metabolism. Drug Metabolism and Disposition, 2007, 35, 1926-1934.	3.3	36
90	The effects of selected flavonoids on cytochromes P450 in rat liver and small intestine. Interdisciplinary Toxicology, 2009, 2, 201-4.	1.0	36

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91	Mechanisms of the Different DNA Adduct Forming Potentials of the Urban Air Pollutants 2-Nitrobenzanthrone and Carcinogenic 3-Nitrobenzanthrone. Chemical Research in Toxicology, 2010, 23, 1192-1201.	3.3	36
92	The impact of p53 on DNA damage and metabolic activation of the environmental carcinogen benzo[a]pyrene: effects in Trp53(+/+), Trp53(+/â€“) and Trp53(â^'/â^') mice. Archives of Toxicology, 2016, 90, 839-851.	4.2	36
93	Biotransformation of xenobiotics in the human colon and rectum and its association with colorectal cancer. Drug Metabolism Reviews, 2015, 47, 199-221.	3.6	35
94	A new way to carcinogenicity of azo dyes: The benzenediazonium ion formed from a non-aminoazo dye, 1-phenylazo-2-hydroxynaphthalene(Sudan I) by microsomal enzymes binds to deoxyguanosine residues of DNA. Cancer Letters, 1988, 40, 327-333.	7.2	34
95	Cytochrome b₅ Increases Cytochrome P450 3A4-Mediated Activation of Anticancer Drug Ellipticine to 13-Hydroxyellipticine Whose Covalent Binding to DNA Is Elevated by Sulfotransferases and N,O-Acetyltransferases. Chemical Research in Toxicology, 2012, 25, 1075-1085.	3.3	34
96	Mechanisms of Enzyme-Catalyzed Reduction of Two Carcinogenic Nitro-Aromatics, 3-Nitrobenzanthrone and Aristolochic Acid I: Experimental and Theoretical Approaches. International Journal of Molecular Sciences, 2014, 15, 10271-10295.	4.1	34
97	Apoferritin as an ubiquitous nanocarrier with excellent shelf life. International Journal of Nanomedicine, 2017, Volume 12, 2265-2278.	6.7	34
98	Prostate cancer-specific hallmarks of amino acids metabolism: Towards a paradigm of precision medicine. Biochimica Et Biophysica Acta: Reviews on Cancer, 2019, 1871, 248-258.	7.4	34
99	New selective inhibitors of cytochromes P450 2B and their application to antimutagenesis of tamoxifen. Archives of Biochemistry and Biophysics, 2002, 403, 41-49.	3.0	33
100	MACLEAYA CORDATA EXTRACT AND SANGROVIT GENOTOXICITY. ASSESSMENT IN VIVO. Biomedical Papers of the Medical Faculty of the University Palacký, Olomouc, Czechoslovakia, 2008, 152, 35-39.	0.6	33
101	A Mechanism of O-Demethylation of Aristolochic Acid I by Cytochromes P450 and Their Contributions to This Reaction in Human and Rat Livers: Experimental and Theoretical Approaches. International Journal of Molecular Sciences, 2015, 16, 27561-27575.	4.1	32
102	An efficient modification of ellipticine synthesis and preparation of 13-hydroxyellipticine. Tetrahedron Letters, 2007, 48, 6893-6895.	1.4	31
103	Assays for determination of matrix metalloproteinases and their activity. TrAC - Trends in Analytical Chemistry, 2011, 30, 1819-1832.	11.4	31
104	Exposure to benzo[a]pyrene of Hepatic Cytochrome P450 Reductase Null (HRN) and P450 Reductase Conditional Null (RCN) mice: Detection of benzo[a]pyrene diol epoxide-DNA adducts by immunohistochemistry and 32P-postlabelling. Toxicology Letters, 2012, 213, 160-166.	0.8	31
105	NADH:Cytochrome b₅ Reductase and Cytochrome b₅ Can Act as Sole Electron Donors to Human Cytochrome P450 1A1-Mediated Oxidation and DNA Adduct Formation by Benzo[a]pyrene. Chemical Research in Toxicology, 2016, 29, 1325-1334.	3.3	31
106	Prostate-Specific Membrane Antigen-Targeted Site-Directed Antibody-Conjugated Apoferritin Nanovehicle Favorably Influences In Vivo Side Effects of Doxorubicin. Scientific Reports, 2018, 8, 8867.	3.3	31
107	Serum metallothionein in newly diagnosed patients with childhood solid tumours.. Acta Biochimica Polonica, 2010, 57, .	0.5	31
108	Î±-Naphthoflavone acts as activator and reversible or irreversible inhibitor of rabbit microsomal CYP3A6. Chemico-Biological Interactions, 2001, 138, 85-106.	4.0	30

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109	The environmental pollutant and carcinogen 3-nitrobenzanthrone induces cytochrome P450 1A1 and NAD(P)H:quinone oxidoreductase in rat lung and kidney, thereby enhancing its own genotoxicity. Toxicology, 2008, 247, 11-22.	4.2	30
110	DNA Adduct Formation by the Anticancer Drug Ellipticine and Its Hydroxy Derivatives in Human Breast Adenocarcinoma MCF-7 Cells. Collection of Czechoslovak Chemical Communications, 2004, 69, 603-615.	1.0	30
111	Oxidation of xenobiotics by plant microsomes, a reconstituted cytochrome P450 system and peroxidase: a comparative study. Phytochemistry, 2000, 54, 353-362.	2.9	29
112	Disposition of sanguinarine in the rat. Xenobiotica, 2007, 37, 549-558.	1.1	29
113	A Novel Insight into the Cardiotoxicity of Antineoplastic Drug Doxorubicin. International Journal of Molecular Sciences, 2013, 14, 21629-21646.	4.1	29
114	An insight into the complex roles of metallothioneins in malignant diseases with emphasis on (sub)isoforms/isoforms and epigenetics phenomena. , 2018, 183, 90-117.		29
115	Formation and persistence of DNA adducts of anticancer drug ellipticine in rats. Toxicology, 2007, 236, 50-60.	4.2	28
116	Chemopreventive compoundsâ€"View from the other side. Chemico-Biological Interactions, 2009, 180, 1-9.	4.0	28
117	Squareâ€Wave Voltammetry as a Tool for Investigation of Doxorubicin Interactions with DNA Isolated from Neuroblastoma Cells. Electroanalysis, 2009, 21, 487-494.	2.9	26
118	Knockout and humanized mice as suitable tools to identify enzymes metabolizing the human carcinogen aristolochic acid. Xenobiotica, 2014, 44, 135-145.	1.1	26
119	Cytochrome b 5 impacts on cytochrome P450-mediated metabolism of benzo[a]pyrene and its DNA adduct formation: studies in hepatic cytochrome b 5 /P450 reductase null (HBRN) mice. Archives of Toxicology, 2018, 92, 1625-1638.	4.2	26
120	Identification of a genotoxic mechanism for 2-nitroanisole carcinogenicity and of its carcinogenic potential for humans. Carcinogenesis, 2003, 25, 833-840.	2.8	24
121	NAD(P)H:quinone oxidoreductase expression in Cyp1a-knockout and CYP1A-humanized mouse lines and its effect on bioactivation of the carcinogen aristolochic acid I. Toxicology and Applied Pharmacology, 2012, 265, 360-367.	2.8	24
122	The Anticancer Drug Ellipticine Activated with Cytochrome P450 Mediates DNA Damage Determining Its Pharmacological Efficiencies: Studies with Rats, Hepatic Cytochrome P450 Reductase Null (HRNâ„¢) Mice and Pure Enzymes. International Journal of Molecular Sciences, 2015, 16, 284-306.	4.1	24
123	Induced Expression of Cytochrome P450 1A and NAD(P)H:Quinone Oxidoreductase Determined at mRNA, Protein, and Enzyme Activity Levels in Rats Exposed to the Carcinogenic Azo Dye 1-Phenylazo-2-naphthol (Sudan I). Chemical Research in Toxicology, 2013, 26, 290-299.	3.3	23
124	Modulation of Induced Cytotoxicity of Doxorubicin by Using Apoferritin and Liposomal Cages. International Journal of Molecular Sciences, 2014, 15, 22960-22977.	4.1	23
125	Prostate tumor attenuation in the nu/nu murine model due to anti-sarcosine antibodies in folate-targeted liposomes. Scientific Reports, 2016, 6, 33379.	3.3	23
126	The influence of ochratoxin A on DNA adduct formation by the carcinogen aristolochic acid in rats. Archives of Toxicology, 2015, 89, 2141-2158.	4.2	22

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127	Induction of cytochromes P450 1A1 and 1A2 suppresses formation of DNA adducts by carcinogenic aristolochic acid I in rats in vivo. Toxicology, 2016, 344-346, 7-18.	4.2	22
128	Impact of genetic modulation of SULT1A enzymes on DNA adduct formation by aristolochic acids and 3-nitrobenzanthrone. Archives of Toxicology, 2017, 91, 1957-1975.	4.2	22
129	Histone deacetylase inhibitors valproate and trichostatin A are toxic to neuroblastoma cells and modulate cytochrome P450 1A1, 1B1 and 3A4 expression in these cells. Interdisciplinary Toxicology, 2009, 2, 205-210.	1.0	22
130	Heme Peroxidases: Structure, Function, Mechanism and Involvement in Activation of Carcinogens. A Review. Collection of Czechoslovak Chemical Communications, 2000, 65, 297-325.	1.0	21
131	Mutagenic potential of nitrenium ions of nitrobenzanthrones: Correlation between theory and experiment. Environmental and Molecular Mutagenesis, 2008, 49, 659-667.	2.2	21
132	Neuroblastoma stem cells â€“ mechanisms of chemoresistance and histonedeacetylase inhibitors. Neoplasma, 2012, 59, 737-746.	1.6	21
133	Physiological changes of Candida tropicalis population degrading phenol in fed batch reactor. Brazilian Archives of Biology and Technology, 2003, 46, 537-543.	0.5	20
134	The comparison of cytotoxicity of the anticancer drugs doxorubicin and ellipticine to human neuroblastoma cells. Interdisciplinary Toxicology, 2008, 1, 186-189.	1.0	20
135	Automated assay of the potency of natural antioxidants using pipetting robot and spectrophotometry. Journal of Applied Biomedicine, 2012, 10, 155-167.	1.7	20
136	THE ROLE OF BIOTRANSFORMATION ENZYMES IN THE DEVELOPMENT OF RENAL INJURY AND UROTHELIAL CANCER CAUSED BY ARISTOLOCHIC ACID: URGENT QUESTIONS AND DIFFICULT ANSWERS. Biomedical Papers of the Medical Faculty of the University Palacký, Olomouc, Czechoslovakia, 2009, 153, 5-11.	0.6	20
137	Human cytochromes P450 1A1 and 1A2 participate in detoxication of carcinogenic aristolochic acid. Neuroendocrinology Letters, 2008, 29, 733-7.	0.2	20
138	Detoxication products of the carcinogenic azodye Sudan I (Solvent Yellow 14) bind to nucleic acids after activation by peroxidase. Cancer Letters, 1993, 68, 43-47.	7.2	19
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