

# Petr Hodek

## List of Publications by Year in descending order

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86  
papers

2,114  
citations

279798

23  
h-index

243625

44  
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91  
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91  
docs citations

91  
times ranked

2295  
citing authors

#	ARTICLE	IF	CITATIONS
1	Flavonoids-potent and versatile biologically active compounds interacting with cytochromes P450. <i>Chemico-Biological Interactions</i> , 2002, 139, 1-21.	4.0	487
2	Sudan I is a potential carcinogen for humans: evidence for its metabolic activation and detoxication by human recombinant cytochrome P450 1A1 and liver microsomes. <i>Cancer Research</i> , 2002, 62, 5678-84.	0.9	200
3	Expression of cytochrome P450 1A1 and its contribution to oxidation of a potential human carcinogen 1-phenylazo-2-naphthol (Sudan I) in human livers. <i>Cancer Letters</i> , 2005, 220, 145-154.	7.2	95
4	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. <i>International Journal of Cancer</i> , 2005, 113, 189-197.	5.1	90
5	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. <i>Journal of Agricultural and Food Chemistry</i> , 2005, 53, 5848-5852.	5.2	73
6	Determination of isoflavones in soy bits by fast column high-performance liquid chromatography coupled with UV-visible diode-array detection. <i>Journal of Chromatography A</i> , 2005, 1084, 71-79.	3.7	65
7	Utilizing of Square Wave Voltammetry to Detect Flavonoids in the Presence of Human Urine. <i>Sensors</i> , 2007, 7, 2402-2418.	3.8	54
8	Paramagnetic Nanoparticles as a Platform for FRET-Based Sarcosine Picomolar Detection. <i>Scientific Reports</i> , 2015, 5, 8868.	3.3	51
9	The relationship between DNA adduct formation by benzo[a]pyrene and expression of its activation enzyme cytochrome P450 1A1 in rat. <i>Environmental Toxicology and Pharmacology</i> , 2013, 36, 989-996.	4.0	46
10	The first identification of the benzenediazonium ion formation from a non-aminoazo dye, 1-phenylazo-2-hydroxynaphthalene (Sudan I) by microsomes of rat livers. <i>Cancer Letters</i> , 1988, 40, 319-326.	7.2	43
11	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. <i>Biochemical Pharmacology</i> , 2011, 82, 669-680.	4.4	42
12	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. <i>Cancer Letters</i> , 2005, 229, 193-204.	7.2	41
13	Interaction of isoflavonoids with human liver microsomal cytochromes P450: inhibition of CYP enzyme activities. <i>Xenobiotica</i> , 2017, 47, 324-331.	1.1	41
14	The Anticancer Drug Ellipticine Is a Potent Inducer of Rat Cytochromes P450 1A1 and 1A2, Thereby Modulating Its Own Metabolism. <i>Drug Metabolism and Disposition</i> , 2007, 35, 1926-1934.	3.3	36
15	The effects of selected flavonoids on cytochromes P450 in rat liver and small intestine. <i>Interdisciplinary Toxicology</i> , 2009, 2, 201-4.	1.0	36
16	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. <i>Cancer Letters</i> , 1988, 40, 327-333.	7.2	34
17	New selective inhibitors of cytochromes P450 2B and their application to antimutagenesis of tamoxifen. <i>Archives of Biochemistry and Biophysics</i> , 2002, 403, 41-49.	3.0	33
18	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. <i>International Journal of Molecular Sciences</i> , 2015, 16, 27561-27575.	4.1	32

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19	Î±-Naphthoflavone acts as activator and reversible or irreversible inhibitor of rabbit microsomal CYP3A6. <i>Chemico-Biological Interactions</i> , 2001, 138, 85-106.	4.0	30
20	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. <i>Toxicology</i> , 2008, 247, 11-22.	4.2	30
21	Chemopreventive compoundsâ€”View from the other side. <i>Chemico-Biological Interactions</i> , 2009, 180, 1-9.	4.0	28
22	3Dâ€”printed biosensor with poly(dimethylsiloxane) reservoir for magnetic separation and quantum dotsâ€”based immunolabeling of metallothionein. <i>Electrophoresis</i> , 2015, 36, 1256-1264.	2.4	25
23	Metabolism of Diamantane by Rat Liver Microsomal Cytochromes P-450. <i>Xenobiotica</i> , 1988, 18, 1109-1118.	1.1	24
24	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). <i>Chemical Research in Toxicology</i> , 2013, 26, 290-299.	3.3	23
25	The influence of ochratoxin A on DNA adduct formation by the carcinogen aristolochic acid in rats. <i>Archives of Toxicology</i> , 2015, 89, 2141-2158.	4.2	22
26	Human cytochromes P450 1A1 and 1A2 participate in detoxication of carcinogenic aristolochic acid. <i>Neuroendocrinology Letters</i> , 2008, 29, 733-7.	0.2	20
27	Nanomedicine of tyrosine kinase inhibitors. <i>Theranostics</i> , 2021, 11, 1546-1567.	10.0	19
28	Immunoextraction of zinc proteins from human plasma using chicken yolk antibodies immobilized onto paramagnetic particles and their electrophoretic analysis. <i>Electrophoresis</i> , 2012, 33, 1824-1832.	2.4	18
29	Identification and Characterization of Cytochrome P4501A1 Amino Acid Residues Interacting with a Radiolabeled Photoaffinity Diazido-benzphetamine Analogue. <i>Archives of Biochemistry and Biophysics</i> , 1996, 330, 142-152.	3.0	16
30	Structural requirements for inhibitors of cytochromes P450 2B: Assessment of the enzyme interaction with diamondoids. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2005, 20, 25-33.	5.2	15
31	Co-Exposure to Aristolochic Acids I and II Increases DNA Adduct Formation Responsible for Aristolochic Acid I-Mediated Carcinogenicity in Rats. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10479.	4.1	15
32	Redox Cycling in the Metabolism of the Environmental Pollutant and Suspected Human Carcinogen <i>o</i> -Anisidine by Rat and Rabbit Hepatic Microsomes. <i>Chemical Research in Toxicology</i> , 2008, 21, 1610-1621.	3.3	14
33	Formation, Persistence, and Identification of DNA Adducts Formed by the Carcinogenic Environmental Pollutant <i>o</i> -Anisidine in Rats. <i>Toxicological Sciences</i> , 2012, 127, 348-359.	3.1	14
34	Identification of quantum dots labeled metallothionein by fast scanning laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 101, 220-225.	2.9	14
35	Comparison of the oxidation of carcinogenic aristolochic acid I and II by microsomal cytochromes P450 in vitro: experimental and theoretical approaches. <i>Monatshefte FÃ¼r Chemie</i> , 2017, 148, 1971-1981.	1.8	14
36	Monitoring of DNA Adducts in Humans and 32P-Postlabelling Methods. A Review. <i>Collection of Czechoslovak Chemical Communications</i> , 2004, 69, 476-498.	1.0	14

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37	The binding affinity of carcinogenic N-nitrosodimethylamine and N-nitrosomethylaniline to cytochromes P450 2B4, 2E1 and 3A6 does not dictate the rate of their enzymatic N-demethylation. <i>General Physiology and Biophysics</i> , 2010, 29, 175-185.	0.9	13
38	NADPH- and NADH-dependent metabolism of and DNA adduct formation by benzo[a]pyrene catalyzed with rat hepatic microsomes and cytochrome P450 1A1. <i>Monatshefte für Chemie</i> , 2016, 147, 847-855.	1.8	12
39	Heterobifunctional Photoaffinity Probes for Cytochrome P450 2B. <i>Archives of Biochemistry and Biophysics</i> , 1999, 370, 208-215.	3.0	11
40	New Selective Inhibitors of Cytochrome P450 2B4 and an Activator of Cytochrome P450 3A6 in Rabbit Liver Microsomes. <i>Collection of Czechoslovak Chemical Communications</i> , 2000, 65, 122-132.	1.0	11
41	Enzymes Oxidizing the Azo Dye 1-Phenylazo-2-Naphthol (Sudan I) and their Contribution to its Genotoxicity and Carcinogenicity. <i>Current Drug Metabolism</i> , 2015, 15, 829-840.	1.2	11
42	3-Aminobenzanthrone, a human metabolite of the carcinogenic environmental pollutant 3-nitrobenzanthrone, induces biotransformation enzymes in rat kidney and lung. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2009, 676, 93-101.	1.7	10
43	Oxidation of the carcinogenic non-aminoazo dye 1-phenylazo-2-hydroxy-naphthalene (Sudan I) by cytochromes P450 and peroxidases: a comparative study. <i>Interdisciplinary Toxicology</i> , 2009, 2, 195-200.	1.0	10
44	Comparison of human cytochrome P450 1A1-catalysed oxidation of benzo[a]pyrene in prokaryotic and eukaryotic expression systems. <i>Monatshefte für Chemie</i> , 2017, 148, 1959-1969.	1.8	10
45	<i>In Vivo</i> Metabolism of Aristolochic Acid I and II in Rats Is Influenced by Their Coexposure. <i>Chemical Research in Toxicology</i> , 2020, 33, 2804-2818.	3.3	10
46	Effect of the natural flavonoids myricetin and dihydromyricetin on the wound healing process in vitro. <i>Journal of Applied Biomedicine</i> , 2021, 19, 149-158.	1.7	10
47	Photo-initiated crosslinking extends mapping of the protein-protein interface to membrane-embedded portions of cytochromes P450 2B4 and b5. <i>Methods</i> , 2015, 89, 128-137.	3.8	9
48	Structural analysis of cytochromes P450 shows differences in flexibility of heme 2- and 4-vinyls. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2007, 1770, 413-419.	2.4	8
49	Synthesis of $\beta$ -D-galactopyranoside-Presenting Glycoclusters, Investigation of Their Interactions with <i>Pseudomonas aeruginosa</i> Lectin A (PA-IL) and Evaluation of Their Anti-Adhesion Potential. <i>Biomolecules</i> , 2019, 9, 686.	4.0	8
50	Mapping of cytochrome P450 2B4 substrate binding sites by photolabile probe 3-azidiamantane: Identification of putative substrate access regions. <i>Archives of Biochemistry and Biophysics</i> , 2007, 468, 82-91.	3.0	7
51	Toxicological aspects of flavonoid interaction with biomacromolecules. <i>Neuroendocrinology Letters</i> , 2006, 27 Suppl 2, 14-7.	0.2	7
52	Induction of cytochromes P450 in small intestine by chemopreventive compounds. <i>Neuroendocrinology Letters</i> , 2008, 29, 717-21.	0.2	7
53	Role of cytochromes P450 in metabolism of carcinogenic aristolochic acid I: evidence of their contribution to aristolochic acid I detoxication and activation in rat liver. <i>Neuroendocrinology Letters</i> , 2011, 32 Suppl 1, 121-30.	0.2	7
54	Effect of low-density lipoprotein addition to soybean lecithin-based extenders on bull spermatozoa following freezing-thawing - preliminary results. <i>Czech Journal of Animal Science</i> , 2016, 61, 560-567.	1.3	6

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55	Investigation of the Binding Affinity of a Broad Array of I-Fucosides with Six Fucose-Specific Lectins of Bacterial and Fungal Origin. <i>Molecules</i> , 2019, 24, 2262.	3.8	6
56	The impact of individual human cytochrome P450 enzymes on oxidative metabolism of anticancer drug lenvatinib. <i>Biomedicine and Pharmacotherapy</i> , 2022, 145, 112391.	5.6	6
57	Isolation and partial characterization of the adduct formed by 13-hydroxyellipticine with deoxyguanosine in DNA. <i>Neuroendocrinology Letters</i> , 2008, 29, 728-32.	0.2	6
58	Formation of DNA Adducts by Ellipticine and Its Micellar Form in Rats – A Comparative Study. <i>Sensors</i> , 2014, 14, 22982-22997.	3.8	5
59	Fluorescent Cellular Assay for Screening Agents Inhibiting <i>Pseudomonas aeruginosa</i> Adherence. <i>Sensors</i> , 2015, 15, 1945-1953.	3.8	5
60	Apo ferritin/Vandetanib Association Is Long-Term Stable But Does Not Improve Pharmacological Properties of Vandetanib. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4250.	4.1	5
61	Oxidation of carcinogenic 2-nitroanisole by rat cytochromes P450 - similarity between human and rat enzymes. <i>Interdisciplinary Toxicology</i> , 2008, 1, 182-185.	1.0	4
62	Chicken immunoglobulins for prophylaxis: Effect of inhaled antibodies on inflammatory parameters in rat airways. <i>Journal of Applied Biomedicine</i> , 2015, 13, 19-22.	1.7	4
63	Identification of Enzymes Oxidizing the Tyrosine Kinase Inhibitor Cabozantinib: Cabozantinib Is Predominantly Oxidized by CYP3A4 and Its Oxidation Is Stimulated by cyt b5 Activity. <i>Biomedicines</i> , 2020, 8, 547.	3.2	4
64	Chicken Egg Yolk as an Excellent Source of Highly Specific Antibodies Against Cytochromes P450. <i>Collection of Czechoslovak Chemical Communications</i> , 2004, 69, 659-673.	1.0	4
65	Mapping of interaction between cytochrome P450 2B4 and cytochrome b5: the first evidence of two mutual orientations. <i>Neuroendocrinology Letters</i> , 2012, 33 Suppl 3, 41-7.	0.2	4
66	Synthesis and Characterization of Azidobenzphetamine Analogs of the Cytochrome P450 Substrate Benzphetamine. <i>Bioorganic Chemistry</i> , 1994, 22, 253-267.	4.1	3
67	Rat liver microsomal metabolism of o-aminophenol and N-(2-methoxyphenyl)hydroxylamine, two metabolites of the environmental pollutant and carcinogen o-anisidine in humans. <i>Collection of Czechoslovak Chemical Communications</i> , 2010, 75, 1229-1247.	1.0	3
68	Susceptibility of airways to <i>Pseudomonas aeruginosa</i> infection: mouse neuraminidase model. <i>Monatshefte für Chemie</i> , 2017, 148, 1993-2002.	1.8	3
69	Cytochromes P450 Involved in Cyclophosphamide, Paclitaxel and Docetaxel Metabolism in Rats. <i>Collection of Czechoslovak Chemical Communications</i> , 2000, 65, 1183-1190.	1.0	3
70	A one-electron oxidation of carcinogenic nonaminoazo dye Sudan I by horseradish peroxidase. <i>Neuroendocrinology Letters</i> , 2008, 29, 712-6.	0.2	3
71	Impact of beta-naphthoflavone on genotoxicity of food-derived carcinogens. <i>Neuroendocrinology Letters</i> , 2011, 32 Suppl 1, 25-34.	0.2	3
72	Role of dihydromyricetin in cytochrome P450-mediated metabolism and carcinogen activation. <i>Neuroendocrinology Letters</i> , 2015, 36 Suppl 1, 46-52.	0.2	3

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73	Experimental approaches to evaluate activities of cytochromes P450 3A. <i>Interdisciplinary Toxicology</i> , 2008, 1, 155-9.	1.0	2
74	Cytochrome P450-mediated metabolism of N-(2-methoxyphenyl)-hydroxylamine, a human metabolite of the environmental pollutants and carcinogens o-anisidine and o-nitroanisole. <i>Interdisciplinary Toxicology</i> , 2008, 1, 218-224.	1.0	2
75	Rat cytochromes P450 oxidize 3-aminobenzanthrone, a human metabolite of the carcinogenic environmental pollutant 3-nitrobenzanthrone. <i>Interdisciplinary Toxicology</i> , 2008, 1, 150-154.	1.0	2
76	Modulation of cytochrome P450 enzyme system by selected flavonoids. <i>Neuroendocrinology Letters</i> , 2009, 30 Suppl 1, 67-71.	0.2	2
77	Preparation of [3H]-labelled benzphetamine photoaffinity probes for cytochrome P-450. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 1995, 36, 321-329.	1.0	1
78	Electroanalytical techniques for determination of flavonoids. <i>Toxicology Letters</i> , 2008, 180, S230.	0.8	1
79	Evaluation of anti-PAII lectin hen yolk antibody as an agent inhibiting <i>Pseudomonas aeruginosa</i> adherence to epithelial cells. <i>Monatshefte für Chemie</i> , 2016, 147, 889-896.	1.8	1
80	Modulation of xenobiotic conjugation enzymes by dihydromyricetin in rats. <i>Monatshefte für Chemie</i> , 2017, 148, 2003-2009.	1.8	1
81	The Anticancer Drug Ellipticine is an Inducer of Rat NAD(P)H:Quinone Oxidoreductase. <i>Collection of Czechoslovak Chemical Communications</i> , 2007, 72, 1350-1364.	1.0	1
82	Preparation and application of anti-peptide antibodies for detection of orphan cytochromes P450. <i>Neuroendocrinology Letters</i> , 2015, 36 Suppl 1, 38-45.	0.2	1
83	The effects of heavy metal ions, phthalates and ochratoxin A on oxidation of carcinogenic aristolochic acid I causing Balkan endemic nephropathy. <i>Neuroendocrinology Letters</i> , 2015, 36 Suppl 1, 13-21.	0.2	1
84	Mycotoxin ochratoxin A decreases cytochrome P450-mediated detoxication of carcinogenic aristolochic acid thereby increases its genotoxic potential in rats in vivo. <i>Toxicology Letters</i> , 2015, 238, S237.	0.8	0
85	Chicken and Rabbit Antibodies against Porcine Pepsinogen A. <i>Prague Medical Report</i> , 2015, 116, 16-23.	0.8	0
86	Cytotoxicity of and DNA adduct formation by ellipticine and its micellar form in human leukemia cells in vitro. <i>Neuroendocrinology Letters</i> , 2015, 36 Suppl 1, 22-8.	0.2	0