

Paavo Honkakoski

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112
papers

6,039
citations

39
h-index

76
g-index

119
ext. papers

6,400
ext. citations

4.9
avg, IF

5.36
L-index

#	Paper	IF	Citations
112	The nuclear orphan receptor CAR-retinoid X receptor heterodimer activates the phenobarbital-responsive enhancer module of the CYP2B gene. <i>Molecular and Cellular Biology</i> , 1998 , 18, 5652-8	4.8	626
111	The repressed nuclear receptor CAR responds to phenobarbital in activating the human CYP2B6 gene. <i>Journal of Biological Chemistry</i> , 1999 , 274, 6043-6	5.4	546
110	Inhibition and induction of human cytochrome P450 enzymes: current status. <i>Archives of Toxicology</i> , 2008 , 82, 667-715	5.8	410
109	Regulation of cytochrome P450 (CYP) genes by nuclear receptors. <i>Biochemical Journal</i> , 2000 , 347, 321-337	3.8	358
108	Regulation of cytochrome P450 (CYP) genes by nuclear receptors. <i>Biochemical Journal</i> , 2000 , 347, 321-337	3.8	227
107	Activation by diverse xenochemicals of the 51-base pair phenobarbital-responsive enhancer module in the CYP2B10 gene. <i>Molecular Pharmacology</i> , 1998 , 53, 597-601	4.3	161
106	Extracellular glycosaminoglycans modify cellular trafficking of lipoplexes and polyplexes. <i>Journal of Biological Chemistry</i> , 2001 , 276, 33875-80	5.4	153
105	Drug-activated nuclear receptors CAR and PXR. <i>Annals of Medicine</i> , 2003 , 35, 172-82	1.5	142
104	Extracellular and intracellular barriers in non-viral gene delivery. <i>Journal of Controlled Release</i> , 2003 , 93, 213-7	11.7	135
103	Immunochemical and catalytical studies on hepatic coumarin 7-hydroxylase in man, rat, and mouse. <i>Biochemical Pharmacology</i> , 1988 , 37, 3889-95	6	118
102	High variability of nitrosamine metabolism among individuals: role of cytochromes P450 2A6 and 2E1 in the dealkylation of N-nitrosodimethylamine and N-nitrosodiethylamine in mice and humans. <i>Molecular Carcinogenesis</i> , 1993 , 7, 268-75	5	113
101	Characterization of a phenobarbital-responsive enhancer module in mouse P450 Cyp2b10 gene. <i>Journal of Biological Chemistry</i> , 1997 , 272, 14943-9	5.4	111
100	Characterization of phenobarbital-inducible mouse Cyp2b10 gene transcription in primary hepatocytes. <i>Journal of Biological Chemistry</i> , 1996 , 271, 9746-53	5.4	100
99	Mouse steroid 15 alpha-hydroxylase gene family: identification of type II P-450(15)alpha as coumarin 7-hydroxylase. <i>Biochemistry</i> , 1989 , 28, 4169-72	3.2	99
98	Protein serine/threonine phosphatase inhibitors suppress phenobarbital-induced Cyp2b10 gene transcription in mouse primary hepatocytes. <i>Biochemical Journal</i> , 1998 , 330 (Pt 2), 889-95	3.8	91
97	Substrates and inhibitors of efflux proteins interfere with the MTT assay in cells and may lead to underestimation of drug toxicity. <i>European Journal of Pharmaceutical Sciences</i> , 2004 , 23, 181-8	5.1	90
96	Cell-surface glycosaminoglycans inhibit cation-mediated gene transfer. <i>Journal of Gene Medicine</i> , 2004 , 6, 405-14	3.5	86

95	Modulation of mouse and human phenobarbital-responsive enhancer module by nuclear receptors. <i>Molecular Pharmacology</i> , 2002 , 62, 366-78	4.3	76
94	Microarray analysis of the global alterations in the gene expression in the placentas from cigarette-smoking mothers. <i>Clinical Pharmacology and Therapeutics</i> , 2008 , 83, 542-50	6.1	68
93	Peptide-oligonucleotide phosphorothioate conjugates with membrane translocation and nuclear localization properties. <i>Bioconjugate Chemistry</i> , 1999 , 10, 598-606	6.3	67
92	Towards personalized medicine with a three-dimensional micro-scale perfusion-based two-chamber tissue model system. <i>Biomaterials</i> , 2012 , 33, 4353-61	15.6	66
91	The structure, function, and regulation of cytochrome P450 2A enzymes. <i>Drug Metabolism Reviews</i> , 1997 , 29, 977-96	7	66
90	Regulation of the mouse liver cytochrome P450 2B subfamily by sex hormones and phenobarbital. <i>Biochemical Journal</i> , 1992 , 285 (Pt 3), 979-83	3.8	66
89	Regulatory DNA elements of phenobarbital-responsive cytochrome P450 CYP2B genes. <i>Journal of Biochemical and Molecular Toxicology</i> , 1998 , 12, 3-9	3.4	64
88	Mouse liver phenobarbital-inducible P450 system: purification, characterization, and differential inducibility of four cytochrome P450 isozymes from D2 mouse. <i>Archives of Biochemistry and Biophysics</i> , 1989 , 273, 42-57	4.1	64
87	A lipid carrier with a membrane active component and a small complex size are required for efficient cellular delivery of anti-sense phosphorothioate oligonucleotides. <i>European Journal of Pharmaceutical Sciences</i> , 2000 , 10, 187-93	5.1	62
86	Polyplex-mediated gene transfer and cell cycle: effect of carrier on cellular uptake and intracellular kinetics, and significance of glycosaminoglycans. <i>Journal of Gene Medicine</i> , 2007 , 9, 479-87	3.5	60
85	Characterization of human cytochrome P450 induction by pesticides. <i>Toxicology</i> , 2012 , 294, 17-26	4.4	59
84	Regulation of gene expression by CAR: an update. <i>Archives of Toxicology</i> , 2015 , 89, 1045-55	5.8	55
83	Effects of triaryl phosphates on mouse and human nuclear receptors. <i>Biochemical Pharmacology</i> , 2004 , 67, 97-106	6	55
82	Alginate-based microencapsulation of retinal pigment epithelial cell line for cell therapy. <i>Biomaterials</i> , 2008 , 29, 869-76	15.6	49
81	Fisetin and luteolin protect human retinal pigment epithelial cells from oxidative stress-induced cell death and regulate inflammation. <i>Scientific Reports</i> , 2015 , 5, 17645	4.9	48
80	Mouse liver P450Coh: genetic regulation of the pyrazole-inducible enzyme and comparison with other P450 isoenzymes. <i>Archives of Biochemistry and Biophysics</i> , 1989 , 271, 139-48	4.1	48
79	Amino acids important for ligand specificity of the human constitutive androstane receptor. <i>Journal of Biological Chemistry</i> , 2005 , 280, 5960-71	5.4	47
78	Effluxing ABC transporters in human corneal epithelium. <i>Journal of Pharmaceutical Sciences</i> , 2010 , 99, 1087-98	3.9	44

77	Effect of pyrazole, cobalt and phenobarbital on mouse liver cytochrome P-450 2a-4/5 (Cyp2a-4/5) expression. <i>Biochemical Journal</i> , 1992 , 286 (Pt 1), 289-94	3.8	43
76	A novel drug-regulated gene expression system based on the nuclear receptor constitutive androstane receptor (CAR). <i>Pharmaceutical Research</i> , 2001 , 18, 146-50	4.5	41
75	Mouse hepatic cytochrome P-450 isozyme induction by 1,4-bis[2-(3,5-dichloropyridyloxy)]benzene, pyrazole, and phenobarbital. <i>Biochemical Pharmacology</i> , 1988 , 37, 4141-7	6	41
74	Induction of drug metabolism by nuclear receptor CAR: molecular mechanisms and implications for drug research. <i>European Journal of Pharmaceutical Sciences</i> , 2000 , 11, 259-64	5.1	40
73	Quercetin alleviates 4-hydroxynonenal-induced cytotoxicity and inflammation in ARPE-19 cells. <i>Experimental Eye Research</i> , 2015 , 132, 208-15	3.7	38
72	Absorption properties and P-glycoprotein activity of modified Caco-2 cell lines. <i>European Journal of Pharmaceutical Sciences</i> , 2005 , 26, 266-79	5.1	38
71	Cytochrome P450 isoforms in human fetal tissues related to phenobarbital-inducible forms in the mouse. <i>Biochemical Pharmacology</i> , 1993 , 45, 899-907	6	38
70	Distinct induction profiles of three phenobarbital-responsive mouse liver cytochrome P450 isozymes. <i>Biochemical Pharmacology</i> , 1992 , 43, 2121-8	6	37
69	Cocaine N-demethylation and the metabolism-related hepatotoxicity can be prevented by cytochrome P450 3A inhibitors. <i>European Journal of Pharmacology - Environmental Toxicology and Pharmacology Section</i> , 1994 , 270, 35-43		35
68	Use of comprehensive screening methods to detect selective human CAR activators. <i>Biochemical Pharmacology</i> , 2011 , 82, 1994-2007	6	34
67	Ligand recognition by drug-activated nuclear receptors PXR and CAR: structural, site-directed mutagenesis and molecular modeling studies. <i>Mini-Reviews in Medicinal Chemistry</i> , 2006 , 6, 937-47	3.2	34
66	Dual action of oestrogens on the mouse constitutive androstane receptor. <i>Biochemical Journal</i> , 2003 , 376, 465-72	3.8	34
65	In vivo and mechanistic evidence of nuclear receptor CAR induction by artemisinin. <i>European Journal of Clinical Investigation</i> , 2006 , 36, 647-53	4.6	33
64	New in vitro tools to study human constitutive androstane receptor (CAR) biology: discovery and comparison of human CAR inverse agonists. <i>Molecular Pharmaceutics</i> , 2011 , 8, 2424-33	5.6	32
63	Insights into ligand-elicited activation of human constitutive androstane receptor based on novel agonists and three-dimensional quantitative structure-activity relationship. <i>Journal of Medicinal Chemistry</i> , 2008 , 51, 7181-92	8.3	32
62	An update on the constitutive androstane receptor (CAR). <i>Drug Metabolism and Drug Interactions</i> , 2013 , 28, 79-93		30
61	The role of cell cycle on polyplex-mediated gene transfer into a retinal pigment epithelial cell line. <i>Journal of Gene Medicine</i> , 2005 , 7, 466-76	3.5	30
60	Synthesis and biological evaluation of phenolic 4,5-dihydroisoxazoles and 3-hydroxy ketones as estrogen receptor alpha and beta agonists. <i>Bioorganic and Medicinal Chemistry</i> , 2010 , 18, 3437-47	3.4	29

59	Monocarboxylate transport in human corneal epithelium and cell lines. <i>European Journal of Pharmaceutical Sciences</i> , 2010 , 39, 241-7	5.1	29
58	Molecular determinants of steroid inhibition for the mouse constitutive androstane receptor. <i>Journal of Medicinal Chemistry</i> , 2003 , 46, 4687-95	8.3	29
57	2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) induced ethoxyresorufin-O-deethylase (EROD) and aldehyde dehydrogenase (ALDH3) activities in the brain and liver. A comparison between the most TCDD-susceptible and the most TCDD-resistant rat strain. <i>Biochemical Pharmacology</i> , 1993 , 46, 651-9	6	29
56	Two dietary polyphenols, fisetin and luteolin, reduce inflammation but augment DNA damage-induced toxicity in human RPE cells. <i>Journal of Nutritional Biochemistry</i> , 2017 , 42, 37-42	6.3	28
55	Discovery of substituted sulfonamides and thiazolidin-4-one derivatives as agonists of human constitutive androstane receptor. <i>Biochemical Pharmacology</i> , 2008 , 76, 1288-97	6	28
54	Synthesis and evaluation of estrogen agonism of diaryl 4,5-dihydroisoxazoles, 3-hydroxyketones, 3-methoxyketones, and 1,3-diketones: a compound set forming a 4D molecular library. <i>Journal of Medicinal Chemistry</i> , 2008 , 51, 3562-71	8.3	28
53	Regulation of the human tyrosinase gene in retinal pigment epithelium cells: the significance of transcription factor orthodenticle homeobox 2 and its polymorphic binding site. <i>Molecular Vision</i> , 2012 , 18, 38-54	2.3	28
52	Immunochemical detection of human liver cytochrome P450 forms related to phenobarbital-inducible forms in the mouse. <i>Biochemical Pharmacology</i> , 1990 , 40, 2503-9	6	27
51	Hepatic mitochondrial coumarin 7-hydroxylase: comparison with the microsomal enzyme. <i>Archives of Biochemistry and Biophysics</i> , 1988 , 267, 558-67	4.1	27
50	Cytochrome P4502A-mediated coumarin 7-hydroxylation and testosterone hydroxylation in mouse and rat lung. <i>Basic and Clinical Pharmacology and Toxicology</i> , 1993 , 72, 107-12		26
49	Metabolic and efflux properties of Caco-2 cells stably transfected with nuclear receptors. <i>Pharmaceutical Research</i> , 2006 , 23, 1991-2001	4.5	24
48	Comparative studies on coumarin and testosterone metabolism in mouse and human livers. Differential inhibitions by the anti-P450Coh antibody and metyrapone. <i>Biochemical Pharmacology</i> , 1991 , 42, 1229-35	6	24
47	Pyrazole is different from acetone and ethanol as an inducer of the polysubstrate monooxygenase system in mice: evidence that pyrazole-inducible P450Coh is distinct from acetone-inducible P450ac. <i>Archives of Biochemistry and Biophysics</i> , 1988 , 267, 589-98	4.1	23
46	Molecular dynamics simulations of the human CAR ligand-binding domain: deciphering the molecular basis for constitutive activity. <i>Journal of Molecular Modeling</i> , 2005 , 11, 69-79	2	22
45	DHCR24 exerts neuroprotection upon inflammation-induced neuronal death. <i>Journal of Neuroinflammation</i> , 2017 , 14, 215	10.1	21
44	Freeze-drying of cationic polymer DNA complexes enables their long-term storage and reverse transfection of post-mitotic cells. <i>Journal of Controlled Release</i> , 2006 , 110, 437-443	11.7	21
43	Highly homologous cytochromes P-450 and b5: a model to study protein-protein interactions in a reconstituted monooxygenase system. <i>BBA - Proteins and Proteomics</i> , 1992 , 1122, 6-14		20
42	Molecular cloning and characterization of a novel nuclear protein kinase in mice. <i>Archives of Biochemistry and Biophysics</i> , 1998 , 352, 31-6	4.1	19

41	Comparison of homology models and X-ray structures of the nuclear receptor CAR: assessing the structural basis of constitutive activity. <i>Journal of Molecular Graphics and Modelling</i> , 2007 , 25, 644-57	2.8	18
40	The roles of individual amino acids in altering substrate specificity of the P450 2a4/2a5 enzymes. <i>Biochimie</i> , 1996 , 78, 685-94	4.6	18
39	Genetically Modified Caco-2 Cells With Improved Cytochrome P450 Metabolic Capacity. <i>Journal of Pharmaceutical Sciences</i> , 2016 , 105, 941-949	3.9	18
38	Comparison between cobalt and pyrazole in the increased expression of coumarin 7-hydroxylase in mouse liver. <i>Biochemical Pharmacology</i> , 1991 , 41, 462-5	6	17
37	Inhibition of BET bromodomains alleviates inflammation in human RPE cells. <i>Biochemical Pharmacology</i> , 2016 , 110-111, 71-9	6	17
36	Regulation of Human Pluripotent Stem Cell-Derived Hepatic Cell Phenotype by Three-Dimensional Hydrogel Models. <i>Tissue Engineering - Part A</i> , 2016 , 22, 971-84	3.9	16
35	Up-regulation of CYP expression in hepatoma cells stably transfected by chimeric nuclear receptors. <i>European Journal of Pharmaceutical Sciences</i> , 2010 , 40, 263-72	5.1	16
34	Molecular dynamics simulations for human CAR inverse agonists. <i>Journal of Chemical Information and Modeling</i> , 2012 , 52, 457-64	6.1	14
33	Ligand specificity of constitutive androstane receptor as probed by induced-fit docking and mutagenesis. <i>Journal of Medicinal Chemistry</i> , 2008 , 51, 7119-31	8.3	14
32	A liquid chromatography-tandem mass spectrometry analysis of nine cytochrome P450 probe drugs and their corresponding metabolites in human serum and urine. <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 251-268	4.4	12
31	Comparison of hamster and mouse reveals interspecies differences in the regulation of hepatic CYP2A isozymes. <i>Biochemical Pharmacology</i> , 1993 , 46, 1681-7	6	12
30	Inducibility of P450Coh by pyrazole and its derivatives. <i>Biochemical Pharmacology</i> , 1991 , 42, 1751-9	6	12
29	Chapter 13: Receptor-Mediated Regulation of Cytochromes P450. <i>Issues in Toxicology</i> , 2008 , 417-448	0.3	12
28	In vitro methods in the prediction of kinetics of drugs: focus on drug metabolism. <i>ATLA Alternatives To Laboratory Animals</i> , 2004 , 32, 425-30	2.1	11
27	Protein expression and function of organic anion transporters in short-term and long-term cultures of Huh7 human hepatoma cells. <i>European Journal of Pharmaceutical Sciences</i> , 2019 , 130, 186-195	5.1	10
26	Interactions of sesquiterpenes zederone and germacrone with the human cytochrome P450 system. <i>Toxicology in Vitro</i> , 2013 , 27, 2005-12	3.6	9
25	Novel in Vitro Method Reveals Drugs That Inhibit Organic Solute Transporter Alpha/Beta (OSTA). <i>Molecular Pharmaceutics</i> , 2019 , 16, 238-246	5.6	8
24	The EDCMET Project: Metabolic Effects of Endocrine Disruptors. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	7

23	Retina-specific gene expression and improved DNA transfection in WERI-Rb1 retinoblastoma cells. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2003 , 1628, 169-76		6
22	Human and mouse liver coumarin 7-hydroxylases do not metabolize warfarin in vitro. <i>British Journal of Clinical Pharmacology</i> , 1992 , 33, 313-7	3.8	6
21	Involvement of P450 1A1 in benzo(a)pyrene but not in benzo(a)pyrene-7,8-dihydrodiol activation by 3-methylcholanthrene-induced mouse liver microsomes. <i>Basic and Clinical Pharmacology and Toxicology</i> , 1993 , 73, 319-24		6
20	Effect of the cold environment on organophosphate toxicity and inhibition of cholinesterase activity. <i>General Pharmacology</i> , 1988 , 19, 741-5		6
19	Metabolism-Disrupting Chemicals and the Constitutive Androstane Receptor CAR. <i>Cells</i> , 2020 , 9,	7.9	6
18	Characterization of ligand-dependent activation of bovine and pig constitutive androstane (CAR) and pregnane X receptors (PXR) with interspecies comparisons. <i>Xenobiotica</i> , 2016 , 46, 200-10	2	5
17	Preferential inhibition of mouse hepatic coumarin 7-hydroxylase by inhibitors of steroid metabolizing monooxygenases. <i>Basic and Clinical Pharmacology and Toxicology</i> , 1989 , 65, 104-9		5
16	Requirements for delivery of active antisense oligonucleotides into cells with lipid carriers. <i>Methods in Enzymology</i> , 2004 , 387, 210-30	1.7	4
15	Optimization of Canalicular ABC Transporter Function in HuH-7 Cells by Modification of Culture Conditions. <i>Drug Metabolism and Disposition</i> , 2019 , 47, 1222-1230	4	4
14	Functional impact of cytochrome P450 3A (CYP3A) missense variants in cattle. <i>Scientific Reports</i> , 2019 , 9, 19672	4.9	4
13	DNA elements for constitutive androstane receptor- and pregnane X receptor-mediated regulation of bovine CYP3A28 gene. <i>PLoS ONE</i> , 2019 , 14, e0214338	3.7	3
12	Preclinical pharmacology of FL442, a novel nonsteroidal androgen receptor modulator. <i>Molecular and Cellular Endocrinology</i> , 2014 , 387, 8-18	4.4	3
11	Comparison of the immunochemical properties of human placental and bovine adrenal cholesterol side-chain cleavage enzyme complex. <i>BBA - Proteins and Proteomics</i> , 1989 , 998, 189-95		3
10	Novel Bile Acid-dependent Mechanisms of Hepatotoxicity Associated with Tyrosine Kinase Inhibitors. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2021 ,	4.7	3
9	Carboxylesterase Activities and Protein Expression in Rabbit and Pig Ocular Tissues. <i>Molecular Pharmaceutics</i> , 2021 , 18, 1305-1316	5.6	3
8	Improved assays for xenosensor activation based on reverse transfection. <i>Toxicology in Vitro</i> , 2015 , 29, 1759-65	3.6	2
7	Teaching the Basics of Nuclear Receptor Action: A Simple Laboratory Exercise Using the Yeast Two-Hybrid Method. <i>American Journal of Pharmaceutical Education</i> , 2005 , 69, 26	2.5	2
6	Direct and rapid transcript analysis assay for CYP mRNA expression and inducibility in human primary hepatocytes. <i>Drug Metabolism Letters</i> , 2014 , 8, 77-87	2.1	2

5	A Reverse Transfection Method for Screening of Nuclear Receptor Activators. <i>Methods in Molecular Biology</i> , 2019 , 1966, 163-173	1.4	1
4	The Basis for Strain-Dependent Rat Aldehyde Dehydrogenase 1A7 () Gene Expression. <i>Molecular Pharmacology</i> , 2019 , 96, 655-663	4.3	1
3	Ocular metabolism and distribution of drugs in the rabbit eye: Quantitative assessment after intracameral and intravitreal administrations.. <i>International Journal of Pharmaceutics</i> , 2021 , 613, 121361	6.5	0
2	Mechanism-Based Experimental Models for the Evaluation of BSEP Inhibition and DILI 2021 , 261-306		
1	Identification of Key Amino Acids that Impact Organic Solute Transporter / (OST) <i>Molecular Pharmacology</i> , 2021 , 100, 599-608	4.3	