Paavo Honkakoski

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Novel Bile Acid-dependent Mechanisms of Hepatotoxicity Associated with Tyrosine Kinase Inhibitors. *Journal of Pharmacology and Experimental Therapeutics*, **2021**,	4.7	3
111	Ocular metabolism and distribution of drugs in the rabbit eye: Quantitative assessment after intracameral and intravitreal administrations.. *International Journal of Pharmaceutics*, **2021**, 613, 121361	6.5	0
110	Mechanism-Based Experimental Models for the Evaluation of BSEP Inhibition and DILI **2021**, 261-306		
109	Carboxylesterase Activities and Protein Expression in Rabbit and Pig Ocular Tissues. *Molecular Pharmaceutics*, **2021**, 18, 1305-1316	5.6	3
108	Identification of Key Amino Acids that Impact Organic Solute Transporter / (OST) *Molecular Pharmacology*, **2021**, 100, 599-608	4.3	
107	The EDCMET Project: Metabolic Effects of Endocrine Disruptors. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	7
106	Metabolism-Disrupting Chemicals and the Constitutive Androstane Receptor CAR. *Cells*, **2020**, 9,	7.9	6
105	Protein expression and function of organic anion transporters in short-term and long-term cultures of Huh7 human hepatoma cells. *European Journal of Pharmaceutical Sciences*, **2019**, 130, 186-195	5.1	10
104	A Reverse Transfection Method for Screening of Nuclear Receptor Activators. *Methods in Molecular Biology*, **2019**, 1966, 163-173	1.4	1
103	DNA elements for constitutive androstane receptor- and pregnane X receptor-mediated regulation of bovine CYP3A28 gene. *PLoS ONE*, **2019**, 14, e0214338	3.7	3
102	Optimization of Canalicular ABC Transporter Function in HuH-7 Cells by Modification of Culture Conditions. *Drug Metabolism and Disposition*, **2019**, 47, 1222-1230	4	4
101	The Basis for Strain-Dependent Rat Aldehyde Dehydrogenase 1A7 () Gene Expression. *Molecular Pharmacology*, **2019**, 96, 655-663	4.3	1
100	Functional impact of cytochrome P450 3A (CYP3A) missense variants in cattle. *Scientific Reports*, **2019**, 9, 19672	4.9	4
99	Novel in Vitro Method Reveals Drugs That Inhibit Organic Solute Transporter Alpha/Beta (OST) *Molecular Pharmaceutics*, **2019**, 16, 238-246	5.6	8
98	Two dietary polyphenols, fisetin and luteolin, reduce inflammation but augment DNA damage-induced toxicity in human RPE cells. *Journal of Nutritional Biochemistry*, **2017**, 42, 37-42	6.3	28
97	DHCR24 exerts neuroprotection upon inflammation-induced neuronal death. *Journal of Neuroinflammation*, **2017**, 14, 215	10.1	21
96	A liquid chromatography-tandem mass spectrometry analysis of nine cytochrome P450 probe drugs and their corresponding metabolites in human serum and urine. *Analytical and Bioanalytical Chemistry*, **2017**, 409, 251-268	4.4	12

95	Characterization of ligand-dependent activation of bovine and pig constitutive androstane (CAR) and pregnane X receptors (PXR) with interspecies comparisons. *Xenobiotica*, **2016**, 46, 200-10	2	5
94	Regulation of Human Pluripotent Stem Cell-Derived Hepatic Cell Phenotype by Three-Dimensional Hydrogel Models. *Tissue Engineering - Part A*, **2016**, 22, 971-84	3.9	16
93	Genetically Modified Caco-2 Cells With Improved Cytochrome P450 Metabolic Capacity. *Journal of Pharmaceutical Sciences*, **2016**, 105, 941-949	3.9	18
92	Inhibition of BET bromodomains alleviates inflammation in human RPE cells. *Biochemical Pharmacology*, **2016**, 110-111, 71-9	6	17
91	Improved assays for xenosensor activation based on reverse transfection. *Toxicology in Vitro*, **2015**, 29, 1759-65	3.6	2
90	Regulation of gene expression by CAR: an update. *Archives of Toxicology*, **2015**, 89, 1045-55	5.8	55
89	Fisetin and luteolin protect human retinal pigment epithelial cells from oxidative stress-induced cell death and regulate inflammation. *Scientific Reports*, **2015**, 5, 17645	4.9	48
88	Quercetin alleviates 4-hydroxynonenal-induced cytotoxicity and inflammation in ARPE-19 cells. *Experimental Eye Research*, **2015**, 132, 208-15	3.7	38
87	Preclinical pharmacology of FL442, a novel nonsteroidal androgen receptor modulator. *Molecular and Cellular Endocrinology*, **2014**, 387, 8-18	4.4	3
86	Direct and rapid transcript analysis assay for CYP mRNA expression and inducibility in human primary hepatocytes. *Drug Metabolism Letters*, **2014**, 8, 77-87	2.1	2
85	Interactions of sesquiterpenes zederone and germacrone with the human cytochrome P450 system. *Toxicology in Vitro*, **2013**, 27, 2005-12	3.6	9
84	An update on the constitutive androstane receptor (CAR). *Drug Metabolism and Drug Interactions*, **2013**, 28, 79-93		30
83	Towards personalized medicine with a three-dimensional micro-scale perfusion-based two-chamber tissue model system. *Biomaterials*, **2012**, 33, 4353-61	15.6	66
82	Characterization of human cytochrome P450 induction by pesticides. *Toxicology*, **2012**, 294, 17-26	4.4	59
81	Molecular dynamics simulations for human CAR inverse agonists. *Journal of Chemical Information and Modeling*, **2012**, 52, 457-64	6.1	14
80	Regulation of the human tyrosinase gene in retinal pigment epithelium cells: the significance of transcription factor orthodenticle homeobox 2 and its polymorphic binding site. *Molecular Vision*, **2012**, 18, 38-54	2.3	28
79	New in vitro tools to study human constitutive androstane receptor (CAR) biology: discovery and comparison of human CAR inverse agonists. *Molecular Pharmaceutics*, **2011**, 8, 2424-33	5.6	32
78	Use of comprehensive screening methods to detect selective human CAR activators. *Biochemical Pharmacology*, **2011**, 82, 1994-2007	6	34

77	Synthesis and biological evaluation of phenolic 4,5-dihydroisoxazoles and 3-hydroxy ketones as estrogen receptor alpha and beta agonists. *Bioorganic and Medicinal Chemistry*, **2010**, 18, 3437-47	3.4	29
76	Monocarboxylate transport in human corneal epithelium and cell lines. *European Journal of Pharmaceutical Sciences*, **2010**, 39, 241-7	5.1	29
75	Up-regulation of CYP expression in hepatoma cells stably transfected by chimeric nuclear receptors. *European Journal of Pharmaceutical Sciences*, **2010**, 40, 263-72	5.1	16
74	Effluxing ABC transporters in human corneal epithelium. *Journal of Pharmaceutical Sciences*, **2010**, 99, 1087-98	3.9	44
73	Microarray analysis of the global alterations in the gene expression in the placentas from cigarette-smoking mothers. *Clinical Pharmacology and Therapeutics*, **2008**, 83, 542-50	6.1	68
72	Discovery of substituted sulfonamides and thiazolidin-4-one derivatives as agonists of human constitutive androstane receptor. *Biochemical Pharmacology*, **2008**, 76, 1288-97	6	28
71	Ligand specificity of constitutive androstane receptor as probed by induced-fit docking and mutagenesis. *Journal of Medicinal Chemistry*, **2008**, 51, 7119-31	8.3	14
70	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. *Journal of Medicinal Chemistry*, **2008**, 51, 3562-71	8.3	28
69	Insights into ligand-elicited activation of human constitutive androstane receptor based on novel agonists and three-dimensional quantitative structure-activity relationship. *Journal of Medicinal Chemistry*, **2008**, 51, 7181-92	8.3	32
68	Alginate-based microencapsulation of retinal pigment epithelial cell line for cell therapy. *Biomaterials*, **2008**, 29, 869-76	15.6	49
67	Inhibition and induction of human cytochrome P450 enzymes: current status. *Archives of Toxicology*, **2008**, 82, 667-715	5.8	410
66	Chapter 13:Receptor-Mediated Regulation of Cytochromes P450. *Issues in Toxicology*, **2008**, 417-448	0.3	12
65	Polyplex-mediated gene transfer and cell cycle: effect of carrier on cellular uptake and intracellular kinetics, and significance of glycosaminoglycans. *Journal of Gene Medicine*, **2007**, 9, 479-87	3.5	60
64	Comparison of homology models and X-ray structures of the nuclear receptor CAR: assessing the structural basis of constitutive activity. *Journal of Molecular Graphics and Modelling*, **2007**, 25, 644-57	2.8	18
63	Freeze-drying of cationic polymer DNA complexes enables their long-term storage and reverse transfection of post-mitotic cells. *Journal of Controlled Release*, **2006**, 110, 437-443	11.7	21
62	Ligand recognition by drug-activated nuclear receptors PXR and CAR: structural, site-directed mutagenesis and molecular modeling studies. *Mini-Reviews in Medicinal Chemistry*, **2006**, 6, 937-47	3.2	34
61	In vivo and mechanistic evidence of nuclear receptor CAR induction by artemisinin. *European Journal of Clinical Investigation*, **2006**, 36, 647-53	4.6	33
60	Metabolic and efflux properties of Caco-2 cells stably transfected with nuclear receptors. *Pharmaceutical Research*, **2006**, 23, 1991-2001	4.5	24

59	Amino acids important for ligand specificity of the human constitutive androstane receptor. *Journal of Biological Chemistry*, **2005**, 280, 5960-71	5.4	47
58	Teaching the Basics of Nuclear Receptor Action: A Simple Laboratory Exercise Using the Yeast Two-Hybrid Method. *American Journal of Pharmaceutical Education*, **2005**, 69, 26	2.5	2
57	Absorption properties and P-glycoprotein activity of modified Caco-2 cell lines. *European Journal of Pharmaceutical Sciences*, **2005**, 26, 266-79	5.1	38
56	The role of cell cycle on polyplex-mediated gene transfer into a retinal pigment epithelial cell line. *Journal of Gene Medicine*, **2005**, 7, 466-76	3.5	30
55	Molecular dynamics simulations of the human CAR ligand-binding domain: deciphering the molecular basis for constitutive activity. *Journal of Molecular Modeling*, **2005**, 11, 69-79	2	22
54	In vitro methods in the prediction of kinetics of drugs: focus on drug metabolism. *ATLA Alternatives To Laboratory Animals*, **2004**, 32, 425-30	2.1	11
53	Requirements for delivery of active antisense oligonucleotides into cells with lipid carriers. *Methods in Enzymology*, **2004**, 387, 210-30	1.7	4
52	Substrates and inhibitors of efflux proteins interfere with the MTT assay in cells and may lead to underestimation of drug toxicity. *European Journal of Pharmaceutical Sciences*, **2004**, 23, 181-8	5.1	90
51	Effects of triaryl phosphates on mouse and human nuclear receptors. *Biochemical Pharmacology*, **2004**, 67, 97-106	6	55
50	Cell-surface glycosaminoglycans inhibit cation-mediated gene transfer. *Journal of Gene Medicine*, **2004**, 6, 405-14	3.5	86
49	Dual action of oestrogens on the mouse constitutive androstane receptor. *Biochemical Journal*, **2003**, 376, 465-72	3.8	34
48	Extracellular and intracellular barriers in non-viral gene delivery. *Journal of Controlled Release*, **2003** , 93, 213-7	11.7	135
47	Retina-specific gene expression and improved DNA transfection in WERI-Rb1 retinoblastoma cells. *Biochimica Et Biophysica Acta Gene Regulatory Mechanisms*, **2003**, 1628, 169-76		6
46	Molecular determinants of steroid inhibition for the mouse constitutive androstane receptor. *Journal of Medicinal Chemistry*, **2003**, 46, 4687-95	8.3	29
45	Drug-activated nuclear receptors CAR and PXR. *Annals of Medicine*, **2003**, 35, 172-82	1.5	142
44	Modulation of mouse and human phenobarbital-responsive enhancer module by nuclear receptors. *Molecular Pharmacology*, **2002**, 62, 366-78	4.3	76
43	A novel drug-regulated gene expression system based on the nuclear receptor constitutive androstane receptor (CAR). *Pharmaceutical Research*, **2001**, 18, 146-50	4.5	41
42	Extracellular glycosaminoglycans modify cellular trafficking of lipoplexes and polyplexes. *Journal of Biological Chemistry*, **2001**, 276, 33875-80	5.4	153

41	Regulation of cytochrome P450 (CYP) genes by nuclear receptors. *Biochemical Journal*, **2000**, 347, 321-337	3.8	227
40	Regulation of cytochrome P450 (CYP) genes by nuclear receptors. *Biochemical Journal*, **2000**, 347, 321-337	3.8	358
39	A lipid carrier with a membrane active component and a small complex size are required for efficient cellular delivery of anti-sense phosphorothioate oligonucleotides. *European Journal of Pharmaceutical Sciences*, **2000**, 10, 187-93	5.1	62
38	Induction of drug metabolism by nuclear receptor CAR: molecular mechanisms and implications for drug research. *European Journal of Pharmaceutical Sciences*, **2000**, 11, 259-64	5.1	40
37	The repressed nuclear receptor CAR responds to phenobarbital in activating the human CYP2B6 gene. *Journal of Biological Chemistry*, **1999**, 274, 6043-6	5.4	546
36	Peptide-oligonucleotide phosphorothioate conjugates with membrane translocation and nuclear localization properties. *Bioconjugate Chemistry*, **1999**, 10, 598-606	6.3	67
35	Regulatory DNA elements of phenobarbital-responsive cytochrome P450 CYP2B genes. *Journal of Biochemical and Molecular Toxicology*, **1998**, 12, 3-9	3.4	64
34	Molecular cloning and characterization of a novel nuclear protein kinase in mice. *Archives of Biochemistry and Biophysics*, **1998**, 352, 31-6	4.1	19
33	The nuclear orphan receptor CAR-retinoid X receptor heterodimer activates the phenobarbital-responsive enhancer module of the CYP2B gene. *Molecular and Cellular Biology*, **1998**, 18, 5652-8	4.8	626
32	Protein serine/threonine phosphatase inhibitors suppress phenobarbital-induced Cyp2b10 gene transcription in mouse primary hepatocytes. *Biochemical Journal*, **1998**, 330 (Pt 2), 889-95	3.8	91
31	Activation by diverse xenochemicals of the 51-base pair phenobarbital-responsive enhancer module in the CYP2B10 gene. *Molecular Pharmacology*, **1998**, 53, 597-601	4.3	161
30	Characterization of a phenobarbital-responsive enhancer module in mouse P450 Cyp2b10 gene. *Journal of Biological Chemistry*, **1997**, 272, 14943-9	5.4	111
29	The structure, function, and regulation of cytochrome P450 2A enzymes. *Drug Metabolism Reviews*, **1997**, 29, 977-96	7	66
28	The roles of individual amino acids in altering substrate specificity of the P450 2a4/2a5 enzymes. *Biochimie*, **1996**, 78, 685-94	4.6	18
27	Characterization of phenobarbital-inducible mouse Cyp2b10 gene transcription in primary hepatocytes. *Journal of Biological Chemistry*, **1996**, 271, 9746-53	5.4	100
26	Cocaine N-demethylation and the metabolism-related hepatotoxicity can be prevented by cytochrome P450 3A inhibitors. *European Journal of Pharmacology - Environmental Toxicology and Pharmacology Section*, **1994**, 270, 35-43		35
25	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. *Molecular Carcinogenesis*, **1993**, 7, 268-75	5	113
24	Cytochrome P4502A-mediated coumarin 7-hydroxylation and testosterone hydroxylation in mouse and rat lung. *Basic and Clinical Pharmacology and Toxicology*, **1993**, 72, 107-12		26

23	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. *Basic and Clinical Pharmacology and Toxicology*, **1993**, 73, 319-24		6
22	Cytochrome P450 isoforms in human fetal tissues related to phenobarbital-inducible forms in the mouse. *Biochemical Pharmacology*, **1993**, 45, 899-907	6	38
21	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. *Biochemical Pharmacology*, **1993**, 46, 651-9	6	29
20	Comparison of hamster and mouse reveals interspecies differences in the regulation of hepatic CYP2A isozymes. *Biochemical Pharmacology*, **1993**, 46, 1681-7	6	12
19	Regulation of the mouse liver cytochrome P450 2B subfamily by sex hormones and phenobarbital. *Biochemical Journal*, **1992**, 285 (Pt 3), 979-83	3.8	66
18	Effect of pyrazole, cobalt and phenobarbital on mouse liver cytochrome P-450 2a-4/5 (Cyp2a-4/5) expression. *Biochemical Journal*, **1992**, 286 (Pt 1), 289-94	3.8	43
17	Human and mouse liver coumarin 7-hydroxylases do not metabolize warfarin in vitro. *British Journal of Clinical Pharmacology*, **1992**, 33, 313-7	3.8	6
16	Distinct induction profiles of three phenobarbital-responsive mouse liver cytochrome P450 isozymes. *Biochemical Pharmacology*, **1992**, 43, 2121-8	6	37
15	Highly homologous cytochromes P-450 and b5: a model to study protein-protein interactions in a reconstituted monooxygenase system. *BBA - Proteins and Proteomics*, **1992**, 1122, 6-14		20
14	Comparative studies on coumarin and testosterone metabolism in mouse and human livers. Differential inhibitions by the anti-P450Coh antibody and metyrapone. *Biochemical Pharmacology*, **1991**, 42, 1229-35	6	24
13	Inducibility of P450Coh by pyrazole and its derivatives. *Biochemical Pharmacology*, **1991**, 42, 1751-9	6	12
12	Comparison between cobalt and pyrazole in the increased expression of coumarin 7-hydroxylase in mouse liver. *Biochemical Pharmacology*, **1991**, 41, 462-5	6	17
11	Immunochemical detection of human liver cytochrome P450 forms related to phenobarbital-inducible forms in the mouse. *Biochemical Pharmacology*, **1990**, 40, 2503-9	6	27
10	Comparison of the immunochemical properties of human placental and bovine adrenal cholesterol side-chain cleavage enzyme complex. *BBA - Proteins and Proteomics*, **1989**, 998, 189-95		3
9	Preferential inhibition of mouse hepatic coumarin 7-hydroxylase by inhibitors of steroid metabolizing monooxygenases. *Basic and Clinical Pharmacology and Toxicology*, **1989**, 65, 104-9		5
8	Mouse steroid 15 alpha-hydroxylase gene family: identification of type II P-450(15)alpha as coumarin 7-hydroxylase. *Biochemistry*, **1989**, 28, 4169-72	3.2	99
7	Mouse liver phenobarbital-inducible P450 system: purification, characterization, and differential inducibility of four cytochrome P450 isozymes from D2 mouse. *Archives of Biochemistry and Biophysics*, **1989**, 273, 42-57	4.1	64
6	Mouse liver P450Coh: genetic regulation of the pyrazole-inducible enzyme and comparison with other P450 isoenzymes. *Archives of Biochemistry and Biophysics*, **1989**, 271, 139-48	4.1	48

5	Hepatic mitochondrial coumarin 7-hydroxylase: comparison with the microsomal enzyme. *Archives of Biochemistry and Biophysics*, **1988**, 267, 558-67	4.1	27
4	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. *Archives of Biochemistry and Biophysics*, **1988**, 267, 589-98	4.1	23
3	Immunochemical and catalytical studies on hepatic coumarin 7-hydroxylase in man, rat, and mouse. *Biochemical Pharmacology*, **1988**, 37, 3889-95	6	118
2	Mouse hepatic cytochrome P-450 isozyme induction by 1,4-bis[2-(3,5-dichloropyridyloxy)]benzene, pyrazole, and phenobarbital. *Biochemical Pharmacology*, **1988**, 37, 4141-7	6	41
1	Effect of the cold environment on organophosphate toxicity and inhibition of cholinesterase activity. *General Pharmacology*, **1988**, 19, 741-5		6