

# Paavo Honkakoski

## List of Publications by Year in descending order

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116  
papers

6,853  
citations

70961

41  
h-index

60497

81  
g-index

119  
all docs

119  
docs citations

119  
times ranked

5339  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Nuclear Orphan Receptor CAR-Retinoid X Receptor Heterodimer Activates the Phenobarbital-Responsive Enhancer Module of the <i>CYP2B</i> Gene. <i>Molecular and Cellular Biology</i> , 1998, 18, 5652-5658.	1.1	678
2	The Repressed Nuclear Receptor CAR Responds to Phenobarbital in Activating the Human <i>CYP2B6</i> Gene. <i>Journal of Biological Chemistry</i> , 1999, 274, 6043-6046.	1.6	600
3	Inhibition and induction of human cytochrome P450 enzymes: current status. <i>Archives of Toxicology</i> , 2008, 82, 667-715.	1.9	481
4	Regulation of cytochrome P450 (CYP) genes by nuclear receptors. <i>Biochemical Journal</i> , 2000, 347, 321-337.	1.7	383
5	Regulation of cytochrome P450 (CYP) genes by nuclear receptors. <i>Biochemical Journal</i> , 2000, 347, 321.	1.7	274
6	Extracellular Glycosaminoglycans Modify Cellular Trafficking of Lipoplexes and Polyplexes. <i>Journal of Biological Chemistry</i> , 2001, 276, 33875-33880.	1.6	182
7	Activation by Diverse Xenochemicals of the 51-Base Pair Phenobarbital-Responsive Enhancer Module in the <i>CYP2B10</i> Gene. <i>Molecular Pharmacology</i> , 1998, 53, 597-601.	1.0	170
8	Drug-activated nuclear receptors CAR and PXR. <i>Annals of Medicine</i> , 2003, 35, 172-182.	1.5	161
9	Extracellular and intracellular barriers in non-viral gene delivery. <i>Journal of Controlled Release</i> , 2003, 93, 213-217.	4.8	147
10	Characterization of a Phenobarbital-responsive Enhancer Module in Mouse P450 <i>Cyp2b10</i> Gene. <i>Journal of Biological Chemistry</i> , 1997, 272, 14943-14949.	1.6	128
11	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, 268-275.	1.3	127
12	Immunochemical and catalytical studies on hepatic coumarin 7-hydroxylase in man, rat, and mouse. <i>Biochemical Pharmacology</i> , 1988, 37, 3889-3895.	2.0	124
13	Characterization of Phenobarbital-inducible Mouse <i>Cyp2b10</i> Gene Transcription in Primary Hepatocytes. <i>Journal of Biological Chemistry</i> , 1996, 271, 9746-9753.	1.6	107
14	Mouse steroid 15.alpha.-hydroxylase gene family: identification of type II P-450 <sub>15.alpha.</sub> as coumarin 7-hydroxylase. <i>Biochemistry</i> , 1989, 28, 4169-4172.	1.2	102
15	Protein serine/threonine phosphatase inhibitors suppress phenobarbital-induced <i>Cyp2b10</i> gene transcription in mouse primary hepatocytes. <i>Biochemical Journal</i> , 1998, 330, 889-895.	1.7	97
16	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, 181-188.	1.9	97
17	Cell-surface glycosaminoglycans inhibit cation-mediated gene transfer. <i>Journal of Gene Medicine</i> , 2004, 6, 405-414.	1.4	94
18	Modulation of Mouse and Human Phenobarbital-Responsive Enhancer Module by Nuclear Receptors. <i>Molecular Pharmacology</i> , 2002, 62, 366-378.	1.0	79

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19	Peptide-oligonucleotide phosphorothioate conjugates with membrane translocation and nuclear localization properties. <i>Bioconjugate Chemistry</i> , 1999, 10, 598-606.	1.8	78
20	Towards personalized medicine with a three-dimensional micro-scale perfusion-based two-chamber tissue model system. <i>Biomaterials</i> , 2012, 33, 4353-4361.	5.7	75
21	Regulation of gene expression by CAR: an update. <i>Archives of Toxicology</i> , 2015, 89, 1045-1055.	1.9	75
22	Characterization of human cytochrome P450 induction by pesticides. <i>Toxicology</i> , 2012, 294, 17-26.	2.0	74
23	Regulation of the mouse liver cytochrome P450 2B subfamily by sex hormones and phenobarbital. <i>Biochemical Journal</i> , 1992, 285, 979-983.	1.7	73
24	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, 542-550.	2.3	73
25	The Structure, Function, and Regulation of Cytochrome P450 2A Enzymes. <i>Drug Metabolism Reviews</i> , 1997, 29, 977-996.	1.5	72
26	Fisetin and luteolin protect human retinal pigment epithelial cells from oxidative stress-induced cell death and regulate inflammation. <i>Scientific Reports</i> , 2016, 5, 17645.	1.6	70
27	Regulatory DNA elements of phenobarbital-responsive cytochrome P450 CYP2B genes. <i>Journal of Biochemical and Molecular Toxicology</i> , 1998, 12, 3-9.	1.4	67
28	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, 187-193.	1.9	65
29	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, 479-487.	1.4	65
30	Mouse liver phenobarbital-inducible P450 system: Purification, characterization, and differential inducibility of four cytochrome P450 isozymes from the D2 mouse. <i>Archives of Biochemistry and Biophysics</i> , 1989, 273, 42-57.	1.4	64
31	Effects of triaryl phosphates on mouse and human nuclear receptors. <i>Biochemical Pharmacology</i> , 2004, 67, 97-106.	2.0	59
32	Alginate-based microencapsulation of retinal pigment epithelial cell line for cell therapy. <i>Biomaterials</i> , 2008, 29, 869-876.	5.7	59
33	Effluxing ABC transporters in human corneal epithelium. <i>Journal of Pharmaceutical Sciences</i> , 2010, 99, 1087-1098.	1.6	53
34	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.	0.8	52
35	Amino Acids Important for Ligand Specificity of the Human Constitutive Androstane Receptor. <i>Journal of Biological Chemistry</i> , 2005, 280, 5960-5971.	1.6	52
36	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, 139-148.	1.4	49

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37	Effect of pyrazole, cobalt and phenobarbital on mouse liver cytochrome <i>P</i>-450 2a-4/5 (Cyp2a-4/5) expression. <i>Biochemical Journal</i> , 1992, 286, 289-294.	1.7	48
38	A novel drug-regulated gene expression system based on the nuclear receptor constitutive androstane receptor (CAR). <i>Pharmaceutical Research</i> , 2001, 18, 146-150.	1.7	45
39	Induction of drug metabolism by nuclear receptor CAR: molecular mechanisms and implications for drug research. <i>European Journal of Pharmaceutical Sciences</i> , 2000, 11, 259-264.	1.9	44
40	Quercetin alleviates 4-hydroxynonenal-induced cytotoxicity and inflammation in ARPE-19 cells. <i>Experimental Eye Research</i> , 2015, 132, 208-215.	1.2	44
41	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, 4141-4147.	2.0	42
42	Absorption properties and P-glycoprotein activity of modified Caco-2 cell lines. <i>European Journal of Pharmaceutical Sciences</i> , 2005, 26, 266-279.	1.9	40
43	An update on the constitutive androstane receptor (CAR). <i>Drug Metabolism and Drug Interactions</i> , 2013, 28, 79-93.	0.3	40
44	Distinct induction profiles of three phenobarbital-responsive mouse liver cytochrome P450 isozymes. <i>Biochemical Pharmacology</i> , 1992, 43, 2121-2128.	2.0	39
45	Cytochrome P450 isoforms in human fetal tissues related to phenobarbital-inducible forms in the mouse. <i>Biochemical Pharmacology</i> , 1993, 45, 899-907.	2.0	39
46	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, 937-943.	1.1	38
47	Use of comprehensive screening methods to detect selective human CAR activators. <i>Biochemical Pharmacology</i> , 2011, 82, 1994-2007.	2.0	38
48	Dual action of oestrogens on the mouse constitutive androstane receptor. <i>Biochemical Journal</i> , 2003, 376, 465-472.	1.7	37
49	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, 3437-3447.	1.4	37
50	New <i>in Vitro</i> Tools to Study Human Constitutive Androstane Receptor (CAR) Biology: Discovery and Comparison of Human CAR Inverse Agonists. <i>Molecular Pharmaceutics</i> , 2011, 8, 2424-2433.	2.3	37
51	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, 466-476.	1.4	35
52	In vivo and mechanistic evidence of nuclear receptor CAR induction by artemisinin. <i>European Journal of Clinical Investigation</i> , 2006, 36, 647-653.	1.7	34
53	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, 7181-7192.	2.9	34
54	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.	1.9	34

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55	DHCR24 exerts neuroprotection upon inflammation-induced neuronal death. <i>Journal of Neuroinflammation</i> , 2017, 14, 215.	3.1	34
56	2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) induced ethoxyresorufin-O-deethylase (EROD) and aldehyde dehydrogenase (ALDH3) activities in the brain and liver. <i>Biochemical Pharmacology</i> , 1993, 46, 651-659.	2.0	33
57	Discovery of substituted sulfonamides and thiazolidin-4-one derivatives as agonists of human constitutive androstane receptor. <i>Biochemical Pharmacology</i> , 2008, 76, 1288-1297.	2.0	32
58	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, 3562-3571.	2.9	32
59	Immunochemical detection of human liver cytochrome P450 forms related to phenobarbital-inducible forms in the mouse. <i>Biochemical Pharmacology</i> , 1990, 40, 2503-2509.	2.0	31
60	Cytochrome P450-mediated Coumestrol 7-hydroxylation and Testosterone Hydroxylation in Mouse and Rat Lung. <i>Basic and Clinical Pharmacology and Toxicology</i> , 1993, 72, 107-112.	0.0	31
61	Molecular Determinants of Steroid Inhibition for the Mouse Constitutive Androstane Receptor. <i>Journal of Medicinal Chemistry</i> , 2003, 46, 4687-4695.	2.9	31
62	Monocarboxylate transport in human corneal epithelium and cell lines. <i>European Journal of Pharmaceutical Sciences</i> , 2010, 39, 241-247.	1.9	30
63	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.	1.1	30
64	Hepatic mitochondrial coumarin 7-hydroxylase: Comparison with the microsomal enzyme. <i>Archives of Biochemistry and Biophysics</i> , 1988, 267, 558-567.	1.4	28
65	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, 589-598.	1.4	25
66	Metabolic and Efflux Properties of Caco-2 Cells Stably Transfected with Nuclear Receptors. <i>Pharmaceutical Research</i> , 2006, 23, 1991-2001.	1.7	25
67	Genetically Modified Caco-2 Cells With Improved Cytochrome P450 Metabolic Capacity. <i>Journal of Pharmaceutical Sciences</i> , 2016, 105, 941-949.	1.6	25
68	Comparative studies on coumarin and testosterone metabolism in mouse and human livers. <i>Biochemical Pharmacology</i> , 1991, 42, 1229-1235.	2.0	24
69	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.	0.8	24
70	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.	4.8	24
71	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.	2.1	23
72	Molecular Cloning and Characterization of a Novel Nuclear Protein Kinase in Mice. <i>Archives of Biochemistry and Biophysics</i> , 1998, 352, 31-36.	1.4	23

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73	Metabolism-Disrupting Chemicals and the Constitutive Androstane Receptor CAR. <i>Cells</i> , 2020, 9, 2306.	1.8	22
74	The EDCMET Project: Metabolic Effects of Endocrine Disruptors. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3021.	1.8	22
75	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, 644-657.	1.3	20
76	Inhibition of BET bromodomains alleviates inflammation in human RPE cells. <i>Biochemical Pharmacology</i> , 2016, 110-111, 71-79.	2.0	20
77	Regulation of Human Pluripotent Stem Cell-Derived Hepatic Cell Phenotype by Three-Dimensional Hydrogel Models. <i>Tissue Engineering - Part A</i> , 2016, 22, 971-984.	1.6	20
78	Up-regulation of CYP expression in hepatoma cells stably transfected by chimeric nuclear receptors. <i>European Journal of Pharmaceutical Sciences</i> , 2010, 40, 263-272.	1.9	19
79	Comparison between cobalt and pyrazole in the increased expression of coumarin 7-hydroxylase in mouse liver. <i>Biochemical Pharmacology</i> , 1991, 41, 462-465.	2.0	18
80	The roles of individual amino acids in altering substrate specificity of the P450 2a4/2a5 enzymes. <i>Biochimie</i> , 1996, 78, 685-694.	1.3	18
81	<i>In Vitro</i> Methods in the Prediction of Kinetics of Drugs: Focus on Drug Metabolism. <i>ATLA Alternatives To Laboratory Animals</i> , 2004, 32, 425-430.	0.7	17
82	Deficient neurotransmitter systems and synaptic function in frontotemporal lobar degeneration—Insights into disease mechanisms and current therapeutic approaches. <i>Molecular Psychiatry</i> , 2022, 27, 1300-1309.	4.1	17
83	Molecular Dynamics Simulations for Human CAR Inverse Agonists. <i>Journal of Chemical Information and Modeling</i> , 2012, 52, 457-464.	2.5	16
84	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.	1.9	16
85	Ligand Specificity of Constitutive Androstane Receptor as Probed by Induced-Fit Docking and Mutagenesis. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 7119-7131.	2.9	14
86	Ocular metabolism and distribution of drugs in the rabbit eye: Quantitative assessment after intracameral and intravitreal administrations. <i>International Journal of Pharmaceutics</i> , 2022, 613, 121361.	2.6	14
87	Inducibility of P450Coh by pyrazole and its derivatives. <i>Biochemical Pharmacology</i> , 1991, 42, 1751-1759.	2.0	13
88	Interactions of sesquiterpenes zederone and germacrone with the human cytochrome P450 system. <i>Toxicology in Vitro</i> , 2013, 27, 2005-2012.	1.1	13
89	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.	1.9	13
90	Chapter 13. Receptor-Mediated Regulation of Cytochromes P450. <i>Issues in Toxicology</i> , 2008, , 417-448.	0.2	13

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91	Novel Bile Acid-Dependent Mechanisms of Hepatotoxicity Associated with Tyrosine Kinase Inhibitors. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2022, 380, 114-125.	1.3	13
92	Comparison of hamster and mouse reveals interspecies differences in the regulation of hepatic CYP2A isozymes. <i>Biochemical Pharmacology</i> , 1993, 46, 1681-1687.	2.0	12
93	Novel in Vitro Method Reveals Drugs That Inhibit Organic Solute Transporter Alpha/Beta (OST $\pm$ / $\beta$ ). <i>Molecular Pharmaceutics</i> , 2019, 16, 238-246.	2.3	11
94	Carboxylesterase Activities and Protein Expression in Rabbit and Pig Ocular Tissues. <i>Molecular Pharmaceutics</i> , 2021, 18, 1305-1316.	2.3	11
95	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, 200-210.	0.5	9
96	Effect of the cold environment on organophosphate toxicity and inhibition of cholinesterase activity. <i>General Pharmacology</i> , 1988, 19, 741-745.	0.7	8
97	Human and mouse liver coumarin 7 $\alpha$ -hydroxylases do not metabolize warfarin in vitro.. <i>British Journal of Clinical Pharmacology</i> , 1992, 33, 313-317.	1.1	7
98	Retina-specific gene expression and improved DNA transfection in WERI-Rb1 retinoblastoma cells. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2003, 1628, 169-176.	2.4	7
99	Involvement of P450 1A1 in Benzo(a)Pyrene but Not in Benzo(a)Pyrene $\epsilon$ , $\delta$ -Dihydrodiol Activation by 3 $\alpha$ -Methylcholanthrene $\alpha$ -Induced Mouse Liver Microsomes. <i>Basic and Clinical Pharmacology and Toxicology</i> , 1993, 73, 319-324.	0.0	6
100	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.	1.7	6
101	Functional impact of cytochrome P450 3A (CYP3A) missense variants in cattle. <i>Scientific Reports</i> , 2019, 9, 19672.	1.6	6
102	Preferential Inhibition of Mouse Hepatic Coumarin 7 $\alpha$ -Hydroxylase by Inhibitors of Steroid Metabolizing Monooxygenases. <i>Basic and Clinical Pharmacology and Toxicology</i> , 1989, 65, 104-109.	0.0	5
103	Searching for Constitutive Androstane Receptor Modulators. <i>Drug Metabolism and Disposition</i> , 2022, 50, 1002-1009.	1.7	5
104	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, 189-195.	2.1	4
105	Requirements for Delivery of Active Antisense Oligonucleotides into Cells with Lipid Carriers. <i>Methods in Enzymology</i> , 2004, 387, 210-230.	0.4	4
106	DNA elements for constitutive androstane receptor- and pregnane X receptor-mediated regulation of bovine CYP3A28 gene. <i>PLoS ONE</i> , 2019, 14, e0214338.	1.1	4
107	Direct and Rapid Transcript Analysis Assay for CYP mRNA Expression and Inducibility in Human Primary Hepatocytes. <i>Drug Metabolism Letters</i> , 2015, 8, 77-87.	0.5	4
108	Preclinical pharmacology of FL442, a novel nonsteroidal androgen receptor modulator. <i>Molecular and Cellular Endocrinology</i> , 2014, 387, 8-18.	1.6	3

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109	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.	0.7	2
110	Improved assays for xenosensor activation based on reverse transfection. <i>Toxicology in Vitro</i> , 2015, 29, 1759-1765.	1.1	2
111	A Reverse Transfection Method for Screening of Nuclear Receptor Activators. <i>Methods in Molecular Biology</i> , 2019, 1966, 163-173.	0.4	1
112	The Basis for Strain-Dependent Rat Aldehyde Dehydrogenase 1A7 ( <i>ALDH1A7</i> ) Gene Expression. <i>Molecular Pharmacology</i> , 2019, 96, 655-663.	1.0	1
113	Functional Characterization of a Novel Variant of the Constitutive Androstane Receptor (CAR, NR113). <i>Nuclear Receptor Research</i> , 2018, 5, .	2.5	1
114	The toxicological role and ligand recognition by constitutive androstane receptor CAR. <i>Toxicology Letters</i> , 2007, 172, S9-S10.	0.4	0
115	A simple gene delivery method for in vitro studies. <i>European Journal of Pharmaceutical Sciences</i> , 2008, 34, S36.	1.9	0
116	Identification of Key Amino Acids that Impact Organic Solute Transporter <i>OST1</i> ( <i>OST1</i> ). <i>Molecular Pharmacology</i> , 2021, 100, 599-608.	1.0	0