

# František Å taud

## List of Publications by Year in descending order

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102  
papers

3,447  
citations

126907

33  
h-index

161849

54  
g-index

102  
all docs

102  
docs citations

102  
times ranked

4013  
citing authors

#	ARTICLE	IF	CITATIONS
1	Valproic Acid Induces CYP3A4 and MDR1 Gene Expression by Activation of Constitutive Androstane Receptor and Pregnane X Receptor Pathways. <i>Drug Metabolism and Disposition</i> , 2007, 35, 1032-1041.	3.3	195
2	Breast cancer resistance protein (BCRP/ABCG2). <i>International Journal of Biochemistry and Cell Biology</i> , 2005, 37, 720-725.	2.8	189
3	P-glycoprotein in the placenta: Expression, localization, regulation and function. <i>Reproductive Toxicology</i> , 2006, 22, 400-410.	2.9	187
4	Tetratricopeptide Repeat Motifs in the World of Bacterial Pathogens: Role in Virulence Mechanisms. <i>Infection and Immunity</i> , 2013, 81, 629-635.	2.2	156
5	Synthesis and antimicrobial evaluation of new 2-substituted 5,7-di-tert-butylbenzoxazoles. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 5850-5865.	3.0	100
6	Pharmacotherapy in pregnancy; effect of ABC and SLC transporters on drug transport across the placenta and fetal drug exposure. <i>Journal of Drug Targeting</i> , 2012, 20, 736-763.	4.4	99
7	Variation of Drug Kinetics in Pregnancy. <i>Current Drug Metabolism</i> , 2009, 10, 520-529.	1.2	93
8	Expression and Transport Activity of Breast Cancer Resistance Protein (Bcrp/Abcg2) in Dually Perfused Rat Placenta and HRP-1 Cell Line. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2006, 319, 53-62.	2.5	79
9	EXPRESSION AND FUNCTIONAL ACTIVITY OF BREAST CANCER RESISTANCE PROTEIN (BCRP, ABCG2) TRANSPORTER IN THE HUMAN CHORIOCARCINOMA CELL LINE BEWO. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2006, 33, 58-65.	1.9	74
10	Examination of Glucocorticoid Receptor $\hat{\pm}$ -Mediated Transcriptional Regulation of P-glycoprotein, CYP3A4, and CYP2C9 Genes in Placental Trophoblast Cell Lines. <i>Placenta</i> , 2007, 28, 1004-1011.	1.5	74
11	Expression and Function of P-Glycoprotein in Normal Tissues: Effect on Pharmacokinetics. <i>Methods in Molecular Biology</i> , 2010, 596, 199-222.	0.9	74
12	Trophoblast: The central unit of fetal growth, protection and programming. <i>International Journal of Biochemistry and Cell Biology</i> , 2018, 105, 35-40.	2.8	72
13	Interactions of tenofovir and tenofovir disoproxil fumarate with drug efflux transporters ABCB1, ABCG2, and ABCC2; role in transport across the placenta. <i>Aids</i> , 2014, 28, 9-17.	2.2	68
14	Lack of Interactions between Breast Cancer Resistance Protein (BCRP/ABCG2) and Selected Antiepileptic Agents. <i>Epilepsia</i> , 2006, 47, 461-468.	5.1	65
15	Transplacental Pharmacokinetics of Glyburide, Rhodamine 123, and BODIPY FL Prazosin: Effect of Drug Efflux Transporters and Lipid Solubility. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2009, 331, 1118-1125.	2.5	64
16	Influence of P-glycoprotein on the Transplacental Passage of Cyclosporine. <i>Journal of Pharmaceutical Sciences</i> , 2001, 90, 1583-1592.	3.3	63
17	P-glycoprotein expression and distribution in the rat placenta during pregnancy. <i>Reproductive Toxicology</i> , 2004, 18, 785-792.	2.9	63
18	Multidrug and toxin extrusion proteins (MATE/SLC47); role in pharmacokinetics. <i>International Journal of Biochemistry and Cell Biology</i> , 2013, 45, 2007-2011.	2.8	61

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19	The concept of hybrid molecules of tacrine and benzyl quinolone carboxylic acid (BQCA) as multifunctional agents for Alzheimer's disease. <i>European Journal of Medicinal Chemistry</i> , 2018, 150, 292-306.	5.5	60
20	Inhibition of experimental hepatic metastasis by targeted delivery of catalase in mice. <i>Clinical and Experimental Metastasis</i> , 2004, 21, 213-221.	3.3	59
21	Organic Cation Transporter 3 (OCT3/SLC22A3) and Multidrug and Toxin Extrusion 1 (MATE1/SLC47A1) Transporter in the Placenta and Fetal Tissues: Expression Profile and Fetus Protective Role at Different Stages of Gestation1. <i>Biology of Reproduction</i> , 2013, 88, 55.	2.7	58
22	Examination of the Functional Activity of P-glycoprotein in the Rat Placental Barrier Using Rhodamine 123. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2003, 305, 1239-1250.	2.5	54
23	Azole Antimycotics Differentially Affect Rifampicin-Induced Pregnane X Receptor-Mediated CYP3A4 Gene Expression. <i>Drug Metabolism and Disposition</i> , 2008, 36, 339-348.	3.3	54
24	Molecular Determinants in the Transport of a Bile Acid-Derived Diagnostic Agent in Tumoral and Nontumoral Cell Lines of Human Liver. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2006, 319, 809-817.	2.5	51
25	Role of breast cancer resistance protein (Bcrp/Abcg2) in fetal protection during gestation in rat. <i>Toxicology Letters</i> , 2008, 178, 176-180.	0.8	44
26	Fetoprotective activity of breast cancer resistance protein (BCRP, ABCG2): expression and function throughout pregnancy. <i>Drug Metabolism Reviews</i> , 2011, 43, 53-68.	3.6	42
27	Serotonin homeostasis in the maternal-fetal interface at term: Role of transporters (SERT/SLC6A4 and) Tj ETQq1 1 0.784314 rgBT rat term placenta. <i>Acta Physiologica</i> , 2020, 229, e13478.	3.8	42
28	Ribociclib shows potential for pharmacokinetic drug-drug interactions being a substrate of ABCB1 and potent inhibitor of ABCB1, ABCG2 and CYP450 isoforms in vitro. <i>Biochemical Pharmacology</i> , 2018, 154, 10-17.	4.4	41
29	Corticosterone Transfer and Metabolism in the Dually Perfused Rat Placenta: Effect of 11 $\beta$ -hydroxysteroid Dehydrogenase Type 2. <i>Placenta</i> , 2006, 27, 171-180.	1.5	40
30	Salicylanilide Acetates: Synthesis and Antibacterial Evaluation. <i>Molecules</i> , 2007, 12, 1-12.	3.8	40
31	Regulation of drug transporter expression and function in the placenta. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2015, 11, 533-555.	3.3	40
32	Synchronized Activity of Organic Cation Transporter 3 (OCT3/SLC22A3) and Multidrug and Toxin Extrusion 1 (MATE1/SLC47A1) Transporter in Transplacental Passage of MPP+ in Rat. <i>Toxicological Sciences</i> , 2012, 128, 471-481.	3.1	38
33	Synthesis of pH-sensitive amphotericin B-poly(ethylene glycol) conjugates and study of their controlled release in vitro. <i>Bioorganic and Medicinal Chemistry</i> , 2007, 15, 4069-4076.	3.0	35
34	Dynamics of Tryptophan Metabolic Pathways in Human Placenta and Placental-Derived Cells: Effect of Gestation Age and Trophoblast Differentiation. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 574034.	3.7	34
35	Transfer of metformin across the rat placenta is mediated by organic cation transporter 3 (OCT3/SLC22A3) and multidrug and toxin extrusion 1 (MATE1/SLC47A1) protein. <i>Reproductive Toxicology</i> , 2013, 39, 17-22.	2.9	31
36	Alteration of Methotrexate Biliary and Renal Elimination during Extrahepatic and Intrahepatic Cholestasis in Rats. <i>Biological and Pharmaceutical Bulletin</i> , 2009, 32, 1978-1985.	1.4	30

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37	Effect of drug efflux transporters on placental transport of antiretroviral agent abacavir. <i>Reproductive Toxicology</i> , 2015, 57, 176-182.	2.9	29
38	Effect of ABCG2 on cytotoxicity of platinum drugs: Interference of EGFP. <i>Toxicology in Vitro</i> , 2008, 22, 1846-1852.	2.4	28
39	Interactions of cyclin-dependent kinase inhibitors AT-7519, flavopiridol and SNS-032 with ABCB1, ABCG2 and ABCC1 transporters and their potential to overcome multidrug resistance in vitro. <i>Cancer Chemotherapy and Pharmacology</i> , 2015, 76, 105-116.	2.3	28
40	Purvalanol A, Olomoucine II and Roscovitine Inhibit ABCB1 Transporter and Synergistically Potentiate Cytotoxic Effects of Daunorubicin In Vitro. <i>PLoS ONE</i> , 2013, 8, e83467.	2.5	27
41	Dinaciclib, a cyclin-dependent kinase inhibitor, is a substrate of human ABCB1 and ABCG2 and an inhibitor of human ABCC1 in vitro. <i>Biochemical Pharmacology</i> , 2015, 98, 465-472.	4.4	27
42	Emtricitabine is a substrate of MATE1 but not of OCT1, OCT2, P-gp, BCRP or MRP2 transporters. <i>Xenobiotica</i> , 2017, 47, 77-85.	1.1	27
43	Dexamethasone reduces methotrexate biliary elimination and potentiates its hepatotoxicity in rats. <i>Toxicology</i> , 2010, 267, 165-171.	4.2	25
44	Equilibrative Nucleoside Transporter 1 (ENT1, <i>SLC29A1</i> ) Facilitates Transfer of the Antiretroviral Drug Abacavir across the Placenta. <i>Drug Metabolism and Disposition</i> , 2018, 46, 1817-1826.	3.3	25
45	Revisiting Steroidogenic Pathways in the Human Placenta and Primary Human Trophoblast Cells. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1704.	4.1	25
46	Disposition of radioactivity after injection of liver-targeted proteins labeled with <sup>111</sup> In or <sup>125</sup> I. Effect of labeling on distribution and excretion of radioactivity in rats. <i>Journal of Pharmaceutical Sciences</i> , 1999, 88, 577-585.	3.3	24
47	Role of ABCB1, ABCG2, ABCC2 and ABCC5 transporters in placental passage of zidovudine. <i>Biopharmaceutics and Drug Disposition</i> , 2016, 37, 28-38.	1.9	24
48	MORPHOLOGICAL AND FUNCTIONAL CHANGES IN P-GLYCOPROTEIN DURING DEXAMETHASONE-INDUCED HEPATOMEGALY. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2007, 34, 296-303.	1.9	23
49	Olomoucine II and purvalanol A inhibit ABCG2 transporter in vitro and in situ and synergistically potentiate cytostatic effect of mitoxantrone. <i>Pharmacological Research</i> , 2012, 65, 312-319.	7.1	23
50	MDR1 and BCRP Transporter-Mediated Drug-Drug Interaction between Rilpivirine and Abacavir and Effect on Intestinal Absorption. <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	3.2	23
51	Prenatal inflammation as a link between placental expression signature of tryptophan metabolism and preterm birth. <i>Human Molecular Genetics</i> , 2021, 30, 2053-2067.	2.9	23
52	Brivanib Exhibits Potential for Pharmacokinetic Drug-Drug Interactions and the Modulation of Multidrug Resistance through the Inhibition of Human ABCG2 Drug Efflux Transporter and CYP450 Biotransformation Enzymes. <i>Molecular Pharmaceutics</i> , 2019, 16, 4436-4450.	4.6	22
53	Anti-HIV and Anti-Hepatitis C Virus Drugs Inhibit P-Glycoprotein Efflux Activity in Caco-2 Cells and Precision-Cut Rat and Human Intestinal Slices. <i>Antimicrobial Agents and Chemotherapy</i> , 2019, 63, .	3.2	21
54	Dexamethasone and betamethasone administration during pregnancy affects expression and function of 11 $\beta$ -hydroxysteroid dehydrogenase type 2 in the rat placenta. <i>Reproductive Toxicology</i> , 2009, 28, 46-51.	2.9	20

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55	Ensitinib (X-396) Effectively Modulates Pharmacokinetic Resistance Mediated by ABCB1 and ABCG2 Drug Efflux Transporters and CYP3A4 Biotransformation Enzyme. <i>Cancers</i> , 2020, 12, 813.	3.7	20
56	Boldine enhances bile production in rats via osmotic and Farnesoid X receptor dependent mechanisms. <i>Toxicology and Applied Pharmacology</i> , 2015, 285, 12-22.	2.8	19
57	Role of ABC and Solute Carrier Transporters in the Placental Transport of Lamivudine. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 5563-5572.	3.2	19
58	Effect of Selected Antidepressants on Placental Homeostasis of Serotonin: Maternal and Fetal Perspectives. <i>Pharmaceutics</i> , 2021, 13, 1306.	4.5	19
59	Liver uptake and hepato-biliary transfer of galactosylated proteins in rats are determined by the extent of galactosylation. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1999, 1427, 183-192.	2.4	18
60	Interactions of protease inhibitors atazanavir and ritonavir with ABCB1, ABCG2, and ABCC2 transporters: Effect on transplacental disposition in rats. <i>Reproductive Toxicology</i> , 2018, 79, 57-65.	2.9	16
61	Expression of Concentrative Nucleoside Transporters ( <i>SLC28A</i> ) in the Human Placenta: Effects of Gestation Age and Prototype Differentiation-Affecting Agents. <i>Molecular Pharmaceutics</i> , 2018, 15, 2732-2741.	4.6	15
62	Interactions of Alectinib with Human ATP-Binding Cassette Drug Efflux Transporters and Cytochrome P450 Biotransformation Enzymes: Effect on Pharmacokinetic Multidrug Resistance. <i>Drug Metabolism and Disposition</i> , 2019, 47, 699-709.	3.3	15
63	HIV in pregnancy: Mother-to-child transmission, pharmacotherapy, and toxicity. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2021, 1867, 166206.	3.8	15
64	Pharmacokinetic Evaluation of Biodistribution Data Obtained with Radiolabeled Proteins in Mice.. <i>Biological and Pharmaceutical Bulletin</i> , 1999, 22, 214-218.	1.4	14
65	Profiling of Tryptophan Metabolic Pathways in the Rat Fetoplacental Unit during Gestation. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7578.	4.1	14
66	<i>In Vitro</i> Tests for Detecting Chemicals Affecting the Embryo Implantation Process. <i>ATLA Alternatives To Laboratory Animals</i> , 2007, 35, 421-439.	1.0	13
67	Etravirine inhibits ABCG2 drug transporter and affects transplacental passage of tenofovir disoproxil fumarate. <i>Placenta</i> , 2016, 47, 124-129.	1.5	13
68	Interactions between Maraviroc and the ABCB1, ABCG2, and ABCC2 Transporters: An Important Role in Transplacental Pharmacokinetics. <i>Drug Metabolism and Disposition</i> , 2019, 47, 954-960.	3.3	13
69	Targeting Pharmacokinetic Drug Resistance in Acute Myeloid Leukemia Cells with CDK4/6 Inhibitors. <i>Cancers</i> , 2020, 12, 1596.	3.7	13
70	Zonation of multidrug resistance-associated protein 2 in rat liver after induction with dexamethasone. <i>Journal of Gastroenterology and Hepatology (Australia)</i> , 2008, 23, e225-30.	2.8	12
71	Role of nucleoside transporters in transplacental pharmacokinetics of nucleoside reverse transcriptase inhibitors zidovudine and emtricitabine. <i>Placenta</i> , 2017, 60, 86-92.	1.5	12
72	Significance of the placental barrier in antenatal viral infections. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2021, 1867, 166244.	3.8	12

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73	Efavirenz reduces renal excretion of lamivudine in rats by inhibiting organic cation transporters (OCT, Oct) and multidrug and toxin extrusion proteins (MATE, Mate). PLoS ONE, 2018, 13, e0202706.	2.5	11
74	Transport of ribavirin across the rat and human placental barrier: Roles of nucleoside and ATP-binding cassette drug efflux transporters. Biochemical Pharmacology, 2019, 163, 60-70.	4.4	11
75	Trophoblast Differentiation Affects Crucial Nutritive Functions of Placental Membrane Transporters. Frontiers in Cell and Developmental Biology, 2022, 10, 820286.	3.7	11
76	P-glycoprotein function and expression during obstructive cholestasis in rats. European Journal of Gastroenterology and Hepatology, 2008, 20, 404-412.	1.6	10
77	Up-regulation of renal Mdr1 and Mrp2 transporters during amiodarone pretreatment in rats. Pharmacological Research, 2010, 61, 129-135.	7.1	10
78	The inhibitory effect of antiretroviral drugs on the L-carnitine uptake in human placenta. Toxicology and Applied Pharmacology, 2019, 368, 18-25.	2.8	10
79	Amiodarone modulates pharmacokinetics of low-dose methotrexate in rats. Biopharmaceutics and Drug Disposition, 2008, 29, 289-299.	1.9	9
80	IL-1 receptor blockade alleviates endotoxin-mediated impairment of renal drug excretory functions in rats. American Journal of Physiology - Renal Physiology, 2015, 308, F388-F399.	2.7	9
81	Cyclin-dependent kinase inhibitors AZD5438 and R547 show potential for enhancing efficacy of daunorubicin-based anticancer therapy: Interaction with carbonyl-reducing enzymes and ABC transporters. Biochemical Pharmacology, 2019, 163, 290-298.	4.4	9
82	Reciprocal Changes in Maternal and Fetal Metabolism of Corticosterone in Rat During Gestation. Reproductive Sciences, 2008, 15, 921-931.	2.5	8
83	Rifampicin Induces Gene, Protein, and Activity of P-Glycoprotein (ABCB1) in Human Precision-Cut Intestinal Slices. Frontiers in Pharmacology, 2021, 12, 684156.	3.5	8
84	Long-term administration of tenofovir or emtricitabine to pregnant rats; effect on <i>Abcb1a</i> , <i>Abcb1b</i> and <i>Abcg2</i> expression in the placenta and in maternal and fetal organs. Journal of Pharmacy and Pharmacology, 2016, 68, 84-92.	2.4	7
85	Functional characterization of dopamine and norepinephrine transport across the apical and basal plasma membranes of the human placental syncytiotrophoblast. Scientific Reports, 2022, 12, .	3.3	7
86	Olomoucine II, but Not Purvalanol A, Is Transported by Breast Cancer Resistance Protein (ABCG2) and P-Glycoprotein (ABCB1). PLoS ONE, 2013, 8, e75520.	2.5	6
87	Determination of rhodamine 123 by sequential injection technique for pharmacokinetic studies in the rat placenta. Talanta, 2002, 58, 1145-1149.	5.5	5
88	Are ENT1/ENT1, NOTCH3, and miR-21 Reliable Prognostic Biomarkers in Patients with Resected Pancreatic Adenocarcinoma Treated with Adjuvant Gemcitabine Monotherapy?. Cancers, 2019, 11, 1621.	3.7	5
89	Pharmacokinetic Examination of p-Aminobenzoic Acid Passage through the Placenta and the Small Intestine in Rats. Journal of Drug Targeting, 1997, 5, 57-65.	4.4	4
90	S-(4-Nitrobenzyl)-6-thioinosine (NBMPR) is Not a Selective Inhibitor of Equilibrative Nucleoside Transporters but Also Blocks Efflux Activity of Breast Cancer Resistance Protein. Pharmaceutical Research, 2020, 37, 58.	3.5	4

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91	Efficacy of Orally Administered Ivermectin Against Larval Stages of Bot Fly ( <i>Cephenemyia stimulator</i> ) Tj ETQq1 1 0.784314 rgBT /Over	0.5	4
92	Catching Them Early: Framework Parameters and Progress for Prenatal and Childhood Application of Advanced Therapies. <i>Pharmaceutics</i> , 2022, 14, 793.	4.5	4
93	Different Transfers of N-Acetyl-p-Aminobenzoic Acid and p-Aminobenzoic Acid Across the Placenta and the Small Intestine in Rats. <i>Journal of Drug Targeting</i> , 1998, 5, 207-213.	4.4	3
94	Evaluation of the Potency of Anti-HIV and Anti-HCV Drugs to Inhibit P-Glycoprotein Mediated Efflux of Digoxin in Caco-2 Cell Line and Human Precision-Cut Intestinal Slices. <i>Pharmaceutics</i> , 2022, 15, 242.	3.8	3
95	UNIDIRECTIONAL TRANSFER OF D-XYLOSE ACROSS THE RAT PLACENTA. <i>Clinical and Experimental Pharmacology and Physiology</i> , 1998, 25, 54-56.	1.9	1
96	Transfer of clorazepate and nordiazepam across the umbilically perfused rat term placenta in situ: Comparison with flunitrazepam and diazepam. <i>Placenta</i> , 1999, 20, 329-342.	1.5	1
97	Placental passage of olomoucine II, but not purvalanol A, is affected by p-glycoprotein (ABCB1), breast cancer resistance protein (ABCG2) and multidrug resistance-associated proteins (ABCCs). <i>Xenobiotica</i> , 2016, 46, 416-423.	1.1	1
98	Phenytoin transfer across the in situ perfused rat term placenta. <i>Die Pharmazie</i> , 1997, 52, 871-4.	0.5	1
99	Pharmacokinetic examination of antipyrine passage through the placenta and the small intestine in rats. <i>European Journal of Drug Metabolism and Pharmacokinetics</i> , 1998, 23, 118-124.	1.6	0
100	LC-MS/MS method for determination of cyclin-dependent kinase inhibitors, BP-14 and BP-20, and its application in pharmacokinetic study in rat. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018, 1089, 24-32.	2.3	0
101	Determination of rhodamine 123 by sequential injection technique for pharmacokinetic studies in the rat placenta. <i>Talanta</i> , 2002, 58, 1145-9.	5.5	0
102	Development of a Rat Model of Intra-Amniotic Inflammation via Ultrasound-Guided Administration of a Triggering Agent in the Gestational Sac to Enable Analysis of Individual Amniotic Fluid Samples. <i>Frontiers in Pharmacology</i> , 2022, 13, 871193.	3.5	0