

Hiroaki Yuasa

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112 papers	2,337 citations	23 h-index	44 g-index
114 ext. papers	2,570 ext. citations	3 avg, IF	4.5 L-index

#	Paper	IF	Citations
112	Effects of a MATE protein inhibitor, pyrimethamine, on the renal elimination of metformin at oral microdose and at therapeutic dose in healthy subjects. <i>Clinical Pharmacology and Therapeutics</i> , 2011 , 89, 837-44	6.1	174
111	Competitive inhibition of the luminal efflux by multidrug and toxin extrusions, but not basolateral uptake by organic cation transporter 2, is the likely mechanism underlying the pharmacokinetic drug-drug interactions caused by cimetidine in the kidney. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2012 , 340, 393-403	4.7	156
110	Potent and specific inhibition of mMate1-mediated efflux of type I organic cations in the liver and kidney by pyrimethamine. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2010 , 333, 341-50	4.7	126
109	Identification and functional characterization of rat riboflavin transporter 2. <i>Journal of Biochemistry</i> , 2009 , 145, 437-43	3.1	101
108	Functional characterization of human proton-coupled folate transporter/heme carrier protein 1 heterologously expressed in mammalian cells as a folate transporter. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2007 , 322, 469-76	4.7	93
107	The inhibition of human multidrug and toxin extrusion 1 is involved in the drug-drug interaction caused by cimetidine. <i>Drug Metabolism and Disposition</i> , 2009 , 37, 555-9	4	91
106	GWAS of clinically defined gout and subtypes identifies multiple susceptibility loci that include urate transporter genes. <i>Annals of the Rheumatic Diseases</i> , 2017 , 76, 869-877	2.4	79
105	Molecular identification and functional characterization of rat multidrug and toxin extrusion type transporter 1 as an organic cation/H ⁺ antiporter in the kidney. <i>Drug Metabolism and Disposition</i> , 2006 , 34, 1868-74	4	79
104	Molecular basis for pharmacokinetics and pharmacodynamics of methotrexate in rheumatoid arthritis therapy. <i>Drug Metabolism and Pharmacokinetics</i> , 2014 , 29, 12-9	2.2	76
103	Functional characterization of PCFT/HCP1 as the molecular entity of the carrier-mediated intestinal folate transport system in the rat model. <i>American Journal of Physiology - Renal Physiology</i> , 2008 , 294, G660-8	5.1	76
102	N-methylnicotinamide is an endogenous probe for evaluation of drug-drug interactions involving multidrug and toxin extrusions (MATE1 and MATE2-K). <i>Clinical Pharmacology and Therapeutics</i> , 2012 , 92, 635-41	6.1	72
101	Functional characteristics of the human ortholog of riboflavin transporter 2 and riboflavin-responsive expression of its rat ortholog in the small intestine indicate its involvement in riboflavin absorption. <i>Journal of Nutrition</i> , 2010 , 140, 1722-7	4.1	57
100	Identification and functional characterization of the first nucleobase transporter in mammals: implication in the species difference in the intestinal absorption mechanism of nucleobases and their analogs between higher primates and other mammals. <i>Journal of Biological Chemistry</i> , 2010 , 285, 6522-31	5.4	56
99	Molecular identification and functional characterization of the human colonic thiamine pyrophosphate transporter. <i>Journal of Biological Chemistry</i> , 2014 , 289, 4405-16	5.4	48
98	Evaluation of 4R6-diamidino-2-phenylindole as a fluorescent probe substrate for rapid assays of the functionality of human multidrug and toxin extrusion proteins. <i>Drug Metabolism and Disposition</i> , 2010 , 38, 715-21	4	42
97	Investigation of endogenous compounds for assessing the drug interactions in the urinary excretion involving multidrug and toxin extrusion proteins. <i>Pharmaceutical Research</i> , 2014 , 31, 136-47	4.5	41
96	Influence of anesthetic regimens on intestinal absorption in rats. <i>Pharmaceutical Research</i> , 1993 , 10, 884-8	4.5	39

95	Functional identification of SLC43A3 as an equilibrative nucleobase transporter involved in purine salvage in mammals. <i>Scientific Reports</i> , 2015 , 5, 15057	4.9	33
94	Functional characterization of multidrug and toxin extrusion protein 1 as a facilitative transporter for fluoroquinolones. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2009 , 328, 628-34	4.7	32
93	Functional characteristics of two human MATE transporters: kinetics of cimetidine transport and profiles of inhibition by various compounds. <i>Journal of Pharmacy and Pharmaceutical Sciences</i> , 2009 , 12, 388-96	3.4	30
92	Molecular and functional characteristics of proton-coupled folate transporter. <i>Journal of Pharmaceutical Sciences</i> , 2009 , 98, 1608-16	3.9	30
91	Determination of kinetic parameters of a carrier-mediated transport in the perfused intestine by two-dimensional laminar flow model: effects of the unstirred water layer. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1986 , 856, 219-30	3.8	26
90	Intestinal brush border transport mechanism of 5-fluorouracil in rats. <i>Biological and Pharmaceutical Bulletin</i> , 1996 , 19, 94-9	2.3	24
89	Effect of the fluoroquinolone antibacterial agent DX-619 on the apparent formation and renal clearances of 6 β hydroxycortisol, an endogenous probe for CYP3A4 inhibition, in healthy subjects. <i>Pharmaceutical Research</i> , 2013 , 30, 447-57	4.5	23
88	Transport functions of riboflavin carriers in the rat small intestine and colon: site difference and effects of tricyclic-type drugs. <i>Drug Delivery</i> , 2001 , 8, 119-24	7	23
87	Metabolic extraction of nifedipine during absorption from the rat small intestine. <i>Drug Metabolism and Pharmacokinetics</i> , 2002 , 17, 546-53	2.2	23
86	Effects of potential damaging agents on the microclimate-pH in the rat jejunum. <i>Journal of Pharmaceutical Sciences</i> , 1986 , 75, 1162-5	3.9	23
85	Functional Identification of Plasma Membrane Monoamine Transporter (PMAT/SLC29A4) as an Atenolol Transporter Sensitive to Flavonoids Contained in Apple Juice. <i>Journal of Pharmaceutical Sciences</i> , 2017 , 106, 2592-2598	3.9	22
84	Glycerol absorption by Na ⁺ -dependent carrier-mediated transport in the closed loop of the rat small intestine. <i>Biological and Pharmaceutical Bulletin</i> , 2005 , 28, 553-5	2.3	22
83	Peptide carrier-mediated transport in intestinal brush border membrane vesicles of rats and rabbits: cephradine uptake and inhibition. <i>Pharmaceutical Research</i> , 1993 , 10, 400-4	4.5	22
82	Functional characterization of the carrier-mediated transport system for glycerol in everted sacs of the rat small intestine. <i>Biological and Pharmaceutical Bulletin</i> , 2004 , 27, 1826-30	2.3	21
81	Characteristic Analysis of Intestinal Transport in Enterocyte-Like Cells Differentiated from Human Induced Pluripotent Stem Cells. <i>Drug Metabolism and Disposition</i> , 2016 , 44, 0	4	21
80	Saturable absorption of glycerol in the rat intestine. <i>Biological and Pharmaceutical Bulletin</i> , 2003 , 26, 1633-6	2.3	20
79	Carrier-mediated transport of riboflavin in the rat colon. <i>Biopharmaceutics and Drug Disposition</i> , 2000 , 21, 77-82	1.7	19
78	18 β glycyrrhetyl-3-O-sulfate would be a causative agent of licorice-induced pseudoaldosteronism. <i>Scientific Reports</i> , 2019 , 9, 1587	4.9	18

77	Characterization of human OCT1-mediated transport of DAPI as a fluorescent probe substrate. <i>Journal of Pharmaceutical Sciences</i> , 2011 , 100, 4006-12	3.9	18
76	Isolation of a novel glycyrrhizin metabolite as a causal candidate compound for pseudoaldosteronism. <i>Scientific Reports</i> , 2018 , 8, 15568	4.9	18
75	Dual functional characteristic of human aquaporin 10 for solute transport. <i>Cellular Physiology and Biochemistry</i> , 2011 , 27, 749-56	3.9	17
74	Functional characterization of human aquaporin 9 as a facilitative glycerol carrier. <i>Drug Metabolism and Pharmacokinetics</i> , 2008 , 23, 279-84	2.2	16
73	Glycerol uptake in HCT-15 human colon cancer cell line by Na(+)-dependent carrier-mediated transport. <i>Biological and Pharmaceutical Bulletin</i> , 2006 , 29, 150-4	2.3	16
72	Evaluation of milk fat-globule membrane (MFGM) emulsion for oral administration: absorption of alpha-linolenic acid in rats and the effect of emulsion droplet size. <i>Biological and Pharmaceutical Bulletin</i> , 1994 , 17, 756-8	2.3	15
71	Transcriptional regulation of PCFT by KLF4, HNF4 α and CDX2 and C/EBP β implication in its site-specific expression in the small intestine. <i>Biochemical and Biophysical Research Communications</i> , 2013 , 431, 158-63	3.4	14
70	Dose adjustment strategy for oral microemulsion formulation of cyclosporine: population pharmacokinetics-based analysis in kidney transplant patients. <i>Therapeutic Drug Monitoring</i> , 2004 , 26, 287-94	3.2	14
69	Comparative assessment of the resistance of the unstirred water layer to solute transport between two different intestinal perfusion systems. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1988 , 938, 189-98	3.8	13
68	Pharmacokinetic functions of human induced pluripotent stem cell-derived small intestinal epithelial cells. <i>Drug Metabolism and Pharmacokinetics</i> , 2020 , 35, 374-382	2.2	12
67	Functional characteristics of aquaporin 7 as a facilitative glycerol carrier. <i>Drug Metabolism and Pharmacokinetics</i> , 2014 , 29, 244-8	2.2	12
66	Influence of anesthetic regimens on the intestinal absorption of 5-fluorouracil in rats. <i>Biological and Pharmaceutical Bulletin</i> , 1995 , 18, 747-52	2.3	12
65	Functional identification of organic cation transporter 1 as an atenolol transporter sensitive to flavonoids. <i>Biochemistry and Biophysics Reports</i> , 2015 , 2, 166-171	2.2	11
64	Effect of Lactobacillus casei on the absorption of nifedipine from rat small intestine. <i>Drug Metabolism and Pharmacokinetics</i> , 2007 , 22, 96-102	2.2	11
63	Carrier-mediated transport of glycerol in the perfused rat small intestine. <i>Biological and Pharmaceutical Bulletin</i> , 2006 , 29, 785-9	2.3	11
62	Physiological mechanism-based analysis of dose-dependent gastrointestinal absorption of L-carnitine in rats. <i>Biopharmaceutics and Drug Disposition</i> , 1998 , 19, 465-72	1.7	10
61	Development of emulsion type new vehicle for soft gelatin capsule. I. Selection of surfactants for development of new vehicle and its physicochemical properties. <i>Chemical and Pharmaceutical Bulletin</i> , 1998 , 46, 309-13	1.9	10
60	Effect of dosing volume on gastrointestinal absorption in rats: analysis of the gastrointestinal disposition of L-glucose and estimation of in vivo intestinal membrane permeability. <i>Journal of Pharmaceutical Sciences</i> , 1995 , 84, 476-81	3.9	10

59	Role of Equilibrative Nucleobase Transporter 1/SLC43A3 as a Ganciclovir Transporter in the Induction of Cytotoxic Effect of Ganciclovir in a Suicide Gene Therapy with Herpes Simplex Virus Thymidine Kinase. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2017 , 360, 59-68	4.7	9
58	Comparative assessment of D-xylose absorption between small intestine and large intestine. <i>Journal of Pharmacy and Pharmacology</i> , 1997 , 49, 26-9	4.8	9
57	Emulsion type new vehicle for soft gelatin capsule available for preclinical and clinical trials: effects of PEG 6000 and PVP K30 on physicochemical stability of new vehicle. <i>Chemical and Pharmaceutical Bulletin</i> , 1999 , 47, 492-7	1.9	9
56	Dose-dependent gastrointestinal absorption of 5-fluorouracil in rats in vivo. <i>Biological and Pharmaceutical Bulletin</i> , 1996 , 19, 1494-8	2.3	8
55	Determination of the membrane permeability coefficient and the reflection coefficient by the two-dimensional laminar flow model for intestinal perfusion experiments. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1986 , 854, 191-7	3.8	8
54	Sustained inhibition of proton-coupled folate transporter by myricetin. <i>Drug Metabolism and Pharmacokinetics</i> , 2015 , 30, 154-9	2.2	7
53	Urate transport function of rat sodium-dependent nucleobase transporter 1. <i>Physiological Reports</i> , 2018 , 6, e13714	2.6	7
52	Enhanced uptake of glycerol by butyrate treatment in HCT-15 human colon cancer cell line. <i>Drug Metabolism and Pharmacokinetics</i> , 2007 , 22, 195-8	2.2	7
51	Are novel scavenger-like receptors involved in the hepatic uptake of heparin?. <i>Drug Metabolism and Pharmacokinetics</i> , 2003 , 18, 273-86	2.2	7
50	Uptake mechanism of fractioned [(3)H]heparin in isolated rat kupffer cells: involvement of scavenger receptors. <i>Biological and Pharmaceutical Bulletin</i> , 1996 , 19, 581-6	2.3	7
49	Uptake of fluorescein isothiocyanate (FITC)-fractionated heparin by rat parenchymal hepatocytes in primary culture. <i>Biological and Pharmaceutical Bulletin</i> , 1993 , 16, 939-41	2.3	7
48	Relationship between in vivo first-order intestinal absorption rate constant and the membrane permeability clearance. <i>Journal of Pharmaceutical Sciences</i> , 1989 , 78, 922-4	3.9	7
47	Relationship between the first-order intestinal absorption rate constant in vivo and the membrane permeability clearance in a perfusion system: an intragastric administration method in vivo. <i>Journal of Pharmacobio-dynamics</i> , 1989 , 12, 264-71		7
46	A laminar flow absorption model for a carrier-mediated transport in the intestinal tract. <i>Journal of Pharmacobio-dynamics</i> , 1984 , 7, 604-6		7
45	Noncompetitive inhibition of proton-coupled folate transporter by myricetin. <i>Drug Metabolism and Pharmacokinetics</i> , 2014 , 29, 312-6	2.2	6
44	First-pass metabolism of 5-fluorouracil in rats. <i>Journal of Pharmacy and Pharmacology</i> , 1998 , 50, 1019-25	4.8	6
43	Effects of ageing on the oral absorption of D-xylose in rats: analysis of gastrointestinal disposition. <i>Journal of Pharmacy and Pharmacology</i> , 1995 , 47, 576-80	4.8	6
42	Nicotinate uptake by two kinetically distinct Na ⁺ -dependent carrier-mediated transport systems in the rat small intestine. <i>Drug Metabolism and Pharmacokinetics</i> , 2012 , 27, 255-62	2.2	6

41	Molecular weight dependency in the uptake of fractionated [3H]heparin in isolated rat Kupffer cells. <i>Biological and Pharmaceutical Bulletin</i> , 1996 , 19, 864-8	2.3	6
40	Influence of urethane anesthesia and abdominal surgery on gastrointestinal motility in rats. <i>Biological and Pharmaceutical Bulletin</i> , 1994 , 17, 1309-12	2.3	6
39	Uptake of low molecular weight fractionated [3H]heparin by rat hepatocytes in the primary culture. <i>Biological and Pharmaceutical Bulletin</i> , 1995 , 18, 443-6	2.3	6
38	Variation in D-glucose uptake along the intestinal tract. <i>Journal of Pharmacobio-dynamics</i> , 1987 , 10, 452-5		6
37	Identification of the amino acid residue responsible for the myricetin sensitivity of human proton-coupled folate transporter. <i>Scientific Reports</i> , 2019 , 9, 18105	4.9	6
36	pH-dependent pyridoxine transport by SLC19A2 and SLC19A3: Implications for absorption in acidic microclimates. <i>Journal of Biological Chemistry</i> , 2020 , 295, 16998-17008	5.4	5
35	Effects of ageing on the oral absorption of D-xylose in rats. <i>Journal of Pharmacy and Pharmacology</i> , 1995 , 47, 373-8	4.8	5
34	Search for carrier-mediated transport systems in the rat colon. <i>Biological and Pharmaceutical Bulletin</i> , 2003 , 26, 274-7	2.3	5
33	Uptake of fractionated heparin by two types of scavenger receptors in isolated rat Kupffer cells. <i>Biological and Pharmaceutical Bulletin</i> , 2000 , 23, 743-7	2.3	5
32	Uptake mechanism of fractionated [3H]heparin in rat parenchymal hepatocytes in primary culture: effect of transport inhibitors on the uptake. <i>Biological and Pharmaceutical Bulletin</i> , 1993 , 16, 497-500	2.3	5
31	Dose-dependent uptake of radioactivity by liver parenchymal and non-parenchymal cells after intravenous administration of fractionated 3H-heparin to rats. <i>Biological and Pharmaceutical Bulletin</i> , 1993 , 16, 1031-4	2.3	5
30	Intestinal absorption by carrier-mediated transports: two-dimensional laminar flow model. <i>Journal of Theoretical Biology</i> , 1986 , 119, 25-36	2.3	5
29	Organic anion transporter 1 (OAT1/SLC22A6) enhances bioluminescence based on d-luciferin-luciferase reaction in living cells by facilitating the intracellular accumulation of d-luciferin. <i>Biochemical and Biophysical Research Communications</i> , 2018 , 495, 2152-2157	3.4	4
28	Kinetic and time-dependent features of sustained inhibitory effect of myricetin on folate transport by proton-coupled folate transporter. <i>Drug Metabolism and Pharmacokinetics</i> , 2015 , 30, 341-6	2.2	4
27	Kinetic characterization of carrier-mediated transport systems for D-glucose and taurocholate in the everted sacs of the rat colon. <i>Biological and Pharmaceutical Bulletin</i> , 2003 , 26, 899-901	2.3	4
26	Uptake of FH by two types of scavenger-like receptors in rat liver parenchymal cells in primary culture. <i>Biological and Pharmaceutical Bulletin</i> , 2002 , 25, 356-60	2.3	4
25	Uptake of fractionated 3H-heparin by isolated rat Kupffer cells. <i>Pharmaceutical Research</i> , 1995 , 12, 1092-5	4.5	4
24	Uptake of fractionated [3H]heparin by rat parenchymal hepatocytes in primary culture: effects of alpha-globulin, temperature, and pH. <i>Journal of Pharmaceutical Sciences</i> , 1992 , 81, 513-7	3.9	4

23	Competitive inhibition of AQP7-mediated glycerol transport by glycerol derivatives. <i>Drug Metabolism and Pharmacokinetics</i> , 2014 , 29, 348-51	2.2	3
22	Internalization of Fractionated 3H-Heparin by the Scavenger-Like Receptor in Rat Liver Parenchymal Cells in Primary Culture. <i>Drug Delivery</i> , 1997 , 4, 181-185	7	3
21	Kinetic characterization of binding and internalization of fractionated [3H]heparin in rat liver parenchymal cells in primary culture. <i>Biological and Pharmaceutical Bulletin</i> , 1997 , 20, 680-3	2.3	3
20	Comparative Assessment of Intestinal Transport of Hydrophilic Drugs Between Small Intestine and Large Intestine. <i>Drug Delivery</i> , 1997 , 4, 269-72	7	3
19	Effect of glycerol-related compounds on carrier-mediated glycerol uptake in HCT-15 human colon cancer cell line. <i>Drug Metabolism and Pharmacokinetics</i> , 2008 , 23, 216-20	2.2	3
18	Gastric emptying-limited oral absorption of alpha-linolenic acid administered as a milk fat-globule membrane (MFGM) emulsion in rats. <i>Biological and Pharmaceutical Bulletin</i> , 1994 , 17, 1262-6	2.3	3
17	Inter-organ relation between salivary gland and kidney in lithium excretion. IV. Saturation of inhibitory effect of NaCl on ductal reabsorption of Li ⁺ in beagle dogs. <i>Biological and Pharmaceutical Bulletin</i> , 1994 , 17, 356-8	2.3	3
16	Specific inhibitory effects of myricetin on human proton-coupled folate transporter: Comparison with its effects on rat proton-coupled folate transporter and human riboflavin transporter 3. <i>Drug Metabolism and Pharmacokinetics</i> , 2017 , 32, 311-314	2.2	2
15	Absorption of vitamin K2 by dogs after oral administration of a soft gelatin capsule formulation containing a new emulsion-type vehicle. <i>Journal of Pharmacy and Pharmacology</i> , 1999 , 51, 1375-80	4.8	2
14	Macromolecule-macromolecule interaction in drug distribution. III. Kinetic characterization of the uptake of fractionated [3H]heparin and the effect of plasma proteins in the perfused rat liver. <i>Biological and Pharmaceutical Bulletin</i> , 1993 , 16, 1035-9	2.3	2
13	Macromolecule-macromolecule interaction in drug distribution. II. Effect of alpha-globulin on saturable uptake of fractionated [3H]heparin by rat parenchymal hepatocytes in primary culture. <i>Chemical and Pharmaceutical Bulletin</i> , 1992 , 40, 3052-5	1.9	2
12	Current Understanding of the Intestinal Absorption of Nucleobases and Analogs. <i>Biological and Pharmaceutical Bulletin</i> , 2020 , 43, 1293-1300	2.3	2
11	Functional Analysis of the Role of Equilibrative Nucleobase Transporter 1 (ENBT1/SLC43A3) in Adenine Transport in HepG2 Cells. <i>Journal of Pharmaceutical Sciences</i> , 2020 , 109, 2622-2628	3.9	2
10	Drug Absorption from the Colon In Situ 2008 , 77-88		1
9	Macromolecule-macromolecule interaction in drug distribution. IV. Molecular weight dependency in the interaction of fractionated [3H]heparin with plasma proteins. <i>Biological and Pharmaceutical Bulletin</i> , 1996 , 19, 287-90	2.3	1
8	Macromolecule-macromolecule interaction in drug distribution. V. Effects of plasma proteins on uptake of fractionated [3H]heparin in isolated rat Kupffer cells. <i>Biological and Pharmaceutical Bulletin</i> , 1996 , 19, 1352-6	2.3	1
7	Investigation on interaction of fractionated 3H-heparin with plasma proteins by gel filtration chromatography. <i>Journal of Pharmacobio-dynamics</i> , 1989 , 12, 416-22		1
6	Macromolecule-macromolecule interaction in drug distribution: effect of alpha-globulin concentration on the hepatic uptake of fractionated 3H-heparin by perfused rat liver. <i>Chemical and Pharmaceutical Bulletin</i> , 1990 , 38, 2821-4	1.9	1

- 5 Inter-organ relation between salivary gland and kidney in lithium excretion. I. Effects of continuous stimulation of salivation on salivary, renal and systemic clearances of lithium in dog. *Journal of Pharmacobio-dynamics*, **1988**, 11, 801-7 1
- 4 Animal species differences in the pyridoxine transport function of SLC19A3: Absence of Slc19a3-mediated pyridoxine uptake in the rat small intestine.. *Drug Metabolism and Pharmacokinetics*, **2022**, 44, 100456 2.2 O
- 3 Inter-organ relation between salivary gland and kidney in lithium excretion. II. Salivary, renal and systemic clearances of lithium under continuous stimulation of salivation in water loaded dogs. *Journal of Pharmacobio-dynamics*, **1989**, 12, 537-43
- 2 Inter-organ relation between salivary gland and kidney in lithium excretion. III. Enhanced salivary and systemic clearance of Li⁺ by oral administration of NaCl in dogs. *Chemical and Pharmaceutical Bulletin*, **1990**, 38, 3428-33 1.9
- 1 Functional characterization of human organic anion transporter 10 (OAT10/SLC22A13) as an orotate transporter.. *Drug Metabolism and Pharmacokinetics*, **2021**, 43, 100443 2.2