

Sumio Ohtsuki

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227
ext. papers

12,087
ext. citations

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L-index

#	Paper	IF	Citations
207	Quantitative targeted absolute proteomics of human blood-brain barrier transporters and receptors. <i>Journal of Neurochemistry</i> , 2011 , 117, 333-45	6	552
206	Quantitative atlas of membrane transporter proteins: development and application of a highly sensitive simultaneous LC/MS/MS method combined with novel in-silico peptide selection criteria. <i>Pharmaceutical Research</i> , 2008 , 25, 1469-83	4.5	400
205	Contribution of carrier-mediated transport systems to the blood-brain barrier as a supporting and protecting interface for the brain; importance for CNS drug discovery and development. <i>Pharmaceutical Research</i> , 2007 , 24, 1745-58	4.5	336
204	Simultaneous absolute protein quantification of transporters, cytochromes P450, and UDP-glucuronosyltransferases as a novel approach for the characterization of individual human liver: comparison with mRNA levels and activities. <i>Drug Metabolism and Disposition</i> , 2012 , 40, 83-92	4	327
203	Transcriptomic and quantitative proteomic analysis of transporters and drug metabolizing enzymes in freshly isolated human brain microvessels. <i>Molecular Pharmaceutics</i> , 2011 , 8, 1332-41	5.6	269
202	A pericyte-derived angiopoietin-1 multimeric complex induces occludin gene expression in brain capillary endothelial cells through Tie-2 activation in vitro. <i>Journal of Neurochemistry</i> , 2004 , 89, 503-13	6	261
201	Multi-laboratory assessment of reproducibility, qualitative and quantitative performance of SWATH-mass spectrometry. <i>Nature Communications</i> , 2017 , 8, 291	17.4	252
200	Role of blood-brain barrier organic anion transporter 3 (OAT3) in the efflux of indoxyl sulfate, a uremic toxin: its involvement in neurotransmitter metabolite clearance from the brain. <i>Journal of Neurochemistry</i> , 2002 , 83, 57-66	6	171
199	Quantitative membrane protein expression at the blood-brain barrier of adult and younger cynomolgus monkeys. <i>Journal of Pharmaceutical Sciences</i> , 2011 , 100, 3939-50	3.9	166
198	Different core promoters possess distinct regulatory activities in the Drosophila embryo. <i>Genes and Development</i> , 1998 , 12, 547-56	12.6	163
197	Quantitative atlas of blood-brain barrier transporters, receptors, and tight junction proteins in rats and common marmoset. <i>Journal of Pharmaceutical Sciences</i> , 2013 , 102, 3343-55	3.9	159
196	Quantitative targeted absolute proteomic analysis of transporters, receptors and junction proteins for validation of human cerebral microvascular endothelial cell line hCMEC/D3 as a human blood-brain barrier model. <i>Molecular Pharmaceutics</i> , 2013 , 10, 289-96	5.6	149
195	A study protocol for quantitative targeted absolute proteomics (QTAP) by LC-MS/MS: application for inter-strain differences in protein expression levels of transporters, receptors, claudin-5, and marker proteins at the blood-brain barrier in ddY, FVB, and C57BL/6J mice. <i>Fluids and Barriers of the CNS</i> , 2013 , 10, 21	7	147
194	New approaches to in vitro models of blood-brain barrier drug transport. <i>Drug Discovery Today</i> , 2003 , 8, 944-54	8.8	145
193	Distinct cellular expressions of creatine synthetic enzyme GAMT and creatine kinases uCK-Mi and CK-B suggest a novel neuron-glia relationship for brain energy homeostasis. <i>European Journal of Neuroscience</i> , 2004 , 20, 144-60	3.5	140
192	Conditionally immortalized retinal capillary endothelial cell lines (TR-IBRB) expressing differentiated endothelial cell functions derived from a transgenic rat. <i>Experimental Eye Research</i> , 2001 , 72, 163-72	3.7	138
191	The blood-brain barrier creatine transporter is a major pathway for supplying creatine to the brain. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2002 , 22, 1327-35	7.3	134

190	Simultaneous absolute quantification of 11 cytochrome P450 isoforms in human liver microsomes by liquid chromatography tandem mass spectrometry with in silico target peptide selection. <i>Journal of Pharmaceutical Sciences</i> , 2011 , 100, 341-52	3.9	129
189	Rat organic anion transporter 3 (rOAT3) is responsible for brain-to-blood efflux of homovanillic acid at the abluminal membrane of brain capillary endothelial cells. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2003 , 23, 432-40	7.3	129
188	Functional expression of rat ABCG2 on the luminal side of brain capillaries and its enhancement by astrocyte-derived soluble factor(s). <i>Journal of Neurochemistry</i> , 2004 , 90, 526-36	6	120
187	GAGA mediates the enhancer blocking activity of the eve promoter in the Drosophila embryo. <i>Genes and Development</i> , 1998 , 12, 3325-30	12.6	120
186	Exogenous expression of claudin-5 induces barrier properties in cultured rat brain capillary endothelial cells. <i>Journal of Cellular Physiology</i> , 2007 , 210, 81-6	7	114
185	GAT2/BGT-1 as a system responsible for the transport of gamma-aminobutyric acid at the mouse blood-brain barrier. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2001 , 21, 1232-9	7.3	114
184	Quantitative targeted absolute proteomics-based ADME research as a new path to drug discovery and development: methodology, advantages, strategy, and prospects. <i>Journal of Pharmaceutical Sciences</i> , 2011 , 100, 3547-59	3.9	111
183	Absolute quantification and differential expression of drug transporters, cytochrome P450 enzymes, and UDP-glucuronosyltransferases in cultured primary human hepatocytes. <i>Drug Metabolism and Disposition</i> , 2012 , 40, 93-103	4	109
182	Blood-brain barrier is involved in the efflux transport of a neuroactive steroid, dehydroepiandrosterone sulfate, via organic anion transporting polypeptide 2. <i>Journal of Neurochemistry</i> , 2000 , 75, 1907-16	6	106
181	Major role of organic anion transporter 3 in the transport of indoxyl sulfate in the kidney. <i>Kidney International</i> , 2002 , 61, 1760-8	9.9	105
180	Functional characterization of the brain-to-blood efflux clearance of human amyloid-beta peptide (1-40) across the rat blood-brain barrier. <i>Neuroscience Research</i> , 2006 , 56, 246-52	2.9	104
179	Distinct spatio-temporal expression of ABCA and ABCG transporters in the developing and adult mouse brain. <i>Journal of Neurochemistry</i> , 2005 , 95, 294-304	6	100
178	Blood-brain barrier (BBB) pharmacoproteomics: reconstruction of in vivo brain distribution of 11 P-glycoprotein substrates based on the BBB transporter protein concentration, in vitro intrinsic transport activity, and unbound fraction in plasma and brain in mice. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2011 , 339, 579-88.	4.7	99
177	mRNA expression and transport characterization of conditionally immortalized rat brain capillary endothelial cell lines; a new in vitro BBB model for drug targeting. <i>Journal of Drug Targeting</i> , 2000 , 8, 357-70	5.4	95
176	Large-scale multiplex absolute protein quantification of drug-metabolizing enzymes and transporters in human intestine, liver, and kidney microsomes by SWATH-MS: Comparison with MRM/SRM and HR-MRM/PRM. <i>Proteomics</i> , 2016 , 16, 2106-17	4.8	93
175	Abeta immunotherapy: intracerebral sequestration of Abeta by an anti-Abeta monoclonal antibody 266 with high affinity to soluble Abeta. <i>Journal of Neuroscience</i> , 2009 , 29, 11393-8	6.6	91
174	Establishment of a new conditionally immortalized human brain microvascular endothelial cell line retaining an in vivo blood-brain barrier function. <i>Journal of Cellular Physiology</i> , 2010 , 225, 519-28	7	89
173	Regulation of taurine transport at the blood-brain barrier by tumor necrosis factor-alpha, taurine and hypertonicity. <i>Journal of Neurochemistry</i> , 2002 , 83, 1188-95	6	89

172	Peripheral nerve pericytes originating from the blood-nerve barrier expresses tight junctional molecules and transporters as barrier-forming cells. <i>Journal of Cellular Physiology</i> , 2008 , 217, 388-99	7	87
171	Peripheral nerve pericytes modify the blood-nerve barrier function and tight junctional molecules through the secretion of various soluble factors. <i>Journal of Cellular Physiology</i> , 2011 , 226, 255-66	7	86
170	Insulin facilitates the hepatic clearance of plasma amyloid beta-peptide (1 40) by intracellular translocation of low-density lipoprotein receptor-related protein 1 (LRP-1) to the plasma membrane in hepatocytes. <i>Molecular Pharmacology</i> , 2007 , 72, 850-5	4.3	84
169	mRNA expression levels of tight junction protein genes in mouse brain capillary endothelial cells highly purified by magnetic cell sorting. <i>Journal of Neurochemistry</i> , 2008 , 104, 147-54	6	83
168	Major involvement of low-density lipoprotein receptor-related protein 1 in the clearance of plasma free amyloid beta-peptide by the liver. <i>Pharmaceutical Research</i> , 2006 , 23, 1407-16	4.5	80
167	The low density lipoprotein receptor-related protein 1 mediates uptake of amyloid beta peptides in an in vitro model of the blood-brain barrier cells. <i>Journal of Biological Chemistry</i> , 2008 , 283, 34554-62	5.4	79
166	Brain insulin impairs amyloid-beta(1-40) clearance from the brain. <i>Journal of Neuroscience</i> , 2004 , 24, 9632-7	7.7	79
165	MCT1-mediated transport of L-lactic acid at the inner blood-retinal barrier: a possible route for delivery of monocarboxylic acid drugs to the retina. <i>Pharmaceutical Research</i> , 2001 , 18, 1669-76	4.5	79
164	CS-25 * MOLECULAR SUBCLASSIFICATION OF GLIOBLASTOMA BASED ON THE ABSOLUTE QUANTITATIVE PROTEOMICS. <i>Neuro-Oncology</i> , 2014 , 16, v56-v56	1	78
163	CBMT-18. THE ROLE OF BIOMARKER CANDIDATE GELSOLIN AND ITS MICRORNAS IN GLIOBLASTOMA. <i>Neuro-Oncology</i> , 2019 , 21, vi36-vi37	1	78
162	Expression and regulation of L-cystine transporter, system xc-, in the newly developed rat retinal Müller cell line (TR-MUL). <i>Glia</i> , 2003 , 43, 208-17	9	76
161	Organic anion transporter 3 is involved in the brain-to-blood efflux transport of thiopurine nucleobase analogs. <i>Journal of Neurochemistry</i> , 2004 , 90, 931-41	6	73
160	New aspects of the blood-brain barrier transporters; its physiological roles in the central nervous system. <i>Biological and Pharmaceutical Bulletin</i> , 2004 , 27, 1489-96	2.3	73
159	Depletion of vitamin E increases amyloid beta accumulation by decreasing its clearances from brain and blood in a mouse model of Alzheimer disease. <i>Journal of Biological Chemistry</i> , 2009 , 284, 33400-8	5.4	72
158	Mouse reduced in osteosclerosis transporter functions as an organic anion transporter 3 and is localized at abluminal membrane of blood-brain barrier. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2004 , 309, 1273-81	4.7	68
157	Brain-to-blood transporters for endogenous substrates and xenobiotics at the blood-brain barrier: an overview of biology and methodology. <i>NeuroRx</i> , 2005 , 2, 63-72		65
156	ATA2 is predominantly expressed as system A at the blood-brain barrier and acts as brain-to-blood efflux transport for L-proline. <i>Molecular Pharmacology</i> , 2002 , 61, 1289-96	4.3	65
155	Localization of norepinephrine and serotonin transporter in mouse brain capillary endothelial cells. <i>Neuroscience Research</i> , 2002 , 44, 173-80	2.9	65

154	1 β -25-Dihydroxyvitamin D3 enhances cerebral clearance of human amyloid- β peptide(1-40) from mouse brain across the blood-brain barrier. <i>Fluids and Barriers of the CNS</i> , 2011 , 8, 20	7	64
153	Cerebral clearance of human amyloid-beta peptide (1-40) across the blood-brain barrier is reduced by self-aggregation and formation of low-density lipoprotein receptor-related protein-1 ligand complexes. <i>Journal of Neurochemistry</i> , 2007 , 103, 2482-90	6	64
152	ATP-binding cassette transporter G2 mediates the efflux of phototoxins on the luminal membrane of retinal capillary endothelial cells. <i>Pharmaceutical Research</i> , 2006 , 23, 1235-42	4.5	64
151	Quantitative expression of human drug transporter proteins in lung tissues: analysis of regional, gender, and interindividual differences by liquid chromatography-tandem mass spectrometry. <i>Journal of Pharmaceutical Sciences</i> , 2013 , 102, 3395-406	3.9	63
150	Function and regulation of taurine transport at the inner blood-retinal barrier. <i>Microvascular Research</i> , 2007 , 73, 100-6	3.7	61
149	In vitro study of the functional expression of organic anion transporting polypeptide 3 at rat choroid plexus epithelial cells and its involvement in the cerebrospinal fluid-to-blood transport of estrone-3-sulfate. <i>Molecular Pharmacology</i> , 2003 , 63, 532-7	4.3	61
148	Rat Organic Anion Transporter 3 (rOAT3) Is Responsible for Brain-to-Blood Efflux of Homovanillic Acid at the Abluminal Membrane of Brain Capillary Endothelial Cells. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2003 , 432-440	7.3	60
147	Trans-chromosomal mice containing a human CYP3A cluster for prediction of xenobiotic metabolism in humans. <i>Human Molecular Genetics</i> , 2013 , 22, 578-92	5.6	59
146	Multichannel liquid chromatography-tandem mass spectrometry cocktail method for comprehensive substrate characterization of multidrug resistance-associated protein 4 transporter. <i>Pharmaceutical Research</i> , 2007 , 24, 2281-96	4.5	59
145	Internalization of basic fibroblast growth factor at the mouse blood-brain barrier involves perlecan, a heparan sulfate proteoglycan. <i>Journal of Neurochemistry</i> , 2002 , 83, 381-9	6	56
144	Identification of IGFBP2 and IGFBP3 As Compensatory Biomarkers for CA19-9 in Early-Stage Pancreatic Cancer Using a Combination of Antibody-Based and LC-MS/MS-Based Proteomics. <i>PLoS ONE</i> , 2016 , 11, e0161009	3.7	56
143	The Blood-Brain Barrier Creatine Transporter Is a Major Pathway for Supplying Creatine to the Brain. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2002 , 1327-1335	7.3	56
142	Quantitative Determination of Luminal and Abluminal Membrane Distributions of Transporters in Porcine Brain Capillaries by Plasma Membrane Fractionation and Quantitative Targeted Proteomics. <i>Journal of Pharmaceutical Sciences</i> , 2015 , 104, 3060-8	3.9	55
141	Major involvement of Na(+)-dependent multivitamin transporter (SLC5A6/SMVT) in uptake of biotin and pantothenic acid by human brain capillary endothelial cells. <i>Journal of Neurochemistry</i> , 2015 , 134, 97-112	6	55
140	Effect of Intestinal Flora on Protein Expression of Drug-Metabolizing Enzymes and Transporters in the Liver and Kidney of Germ-Free and Antibiotics-Treated Mice. <i>Molecular Pharmaceutics</i> , 2016 , 13, 2691-701	5.6	54
139	Conditionally immortalized brain capillary endothelial cell lines established from a transgenic mouse harboring temperature-sensitive simian virus 40 large T-antigen gene. <i>AAPS PharmSci</i> , 2000 , 2, E27		54
138	Human platelets express organic anion-transporting peptide 2B1, an uptake transporter for atorvastatin. <i>Drug Metabolism and Disposition</i> , 2009 , 37, 1129-37	4	53
137	Enhancement of L-cystine transport activity and its relation to xCT gene induction at the blood-brain barrier by diethyl maleate treatment. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2002 , 302, 225-31	4.7	52

136	Reliability and robustness of simultaneous absolute quantification of drug transporters, cytochrome P450 enzymes, and Udp-glucuronosyltransferases in human liver tissue by multiplexed MRM/selected reaction monitoring mode tandem mass spectrometry with nano-liquid chromatography. <i>Journal of Pharmaceutical Sciences</i> , 2011 , 100, 4037-43	3.9	51
135	Identification of blood biomarkers in glioblastoma by SWATH mass spectrometry and quantitative targeted absolute proteomics. <i>PLoS ONE</i> , 2018 , 13, e0193799	3.7	51
134	Characterization of the amino acid transport of new immortalized choroid plexus epithelial cell lines: a novel in vitro system for investigating transport functions at the blood-cerebrospinal fluid barrier. <i>Pharmaceutical Research</i> , 2001 , 18, 16-22	4.5	49
133	Localization of organic anion transporting polypeptide 3 (oatp3) in mouse brain parenchymal and capillary endothelial cells. <i>Journal of Neurochemistry</i> , 2004 , 90, 743-9	6	48
132	The L-isomer-selective transport of aspartic acid is mediated by ASCT2 at the blood-brain barrier. <i>Journal of Neurochemistry</i> , 2003 , 87, 891-901	6	48
131	24S-hydroxycholesterol induces cholesterol release from choroid plexus epithelial cells in an apical- and apoE isoform-dependent manner concomitantly with the induction of ABCA1 and ABCG1 expression. <i>Journal of Neurochemistry</i> , 2007 , 100, 968-78	6	47
130	Hyperammonemia induces transport of taurine and creatine and suppresses claudin-12 gene expression in brain capillary endothelial cells in vitro. <i>Neurochemistry International</i> , 2007 , 50, 95-101	4.4	46
129	ATP-binding cassette transporter A1 (ABCA1) deficiency does not attenuate the brain-to-blood efflux transport of human amyloid-beta peptide (1-40) at the blood-brain barrier. <i>Neurochemistry International</i> , 2008 , 52, 956-61	4.4	45
128	A prolyl endopeptidase of <i>Sarcophaga peregrina</i> (flesh fly): its purification and suggestion for its participation in the differentiation of the imaginal discs. <i>Journal of Biochemistry</i> , 1994 , 115, 449-53	3.1	43
127	Blood-brain barrier pharmacoproteomics-based reconstruction of the in vivo brain distribution of P-glycoprotein substrates in cynomolgus monkeys. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2014 , 350, 578-88	4.7	42
126	Reduction in hepatic secondary bile acids caused by short-term antibiotic-induced dysbiosis decreases mouse serum glucose and triglyceride levels. <i>Scientific Reports</i> , 2018 , 8, 1253	4.9	41
125	Functional characterization of rat plasma membrane monoamine transporter in the blood-brain and blood-cerebrospinal fluid barriers. <i>Journal of Pharmaceutical Sciences</i> , 2011 , 100, 3924-38	3.9	40
124	Involvement of Claudin-11 in Disruption of Blood-Brain, -Spinal Cord, and -Arachnoid Barriers in Multiple Sclerosis. <i>Molecular Neurobiology</i> , 2019 , 56, 2039-2056	6.2	39
123	Amyloid- β peptide(1-40) elimination from cerebrospinal fluid involves low-density lipoprotein receptor-related protein 1 at the blood-cerebrospinal fluid barrier. <i>Journal of Neurochemistry</i> , 2011 , 118, 407-15	6	39
122	Establishment of conditionally immortalized rat retinal pericyte cell lines (TR-rPCT) and their application in a co-culture system using retinal capillary endothelial cell line (TR-iBRB2). <i>Cell Structure and Function</i> , 2003 , 28, 145-53	2.2	38
121	Matrix mechanotransduction mediated by thrombospondin-1/integrin/YAP in the vascular remodeling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 9896-9905	11.5	38
120	Recent advances in the brain-to-blood efflux transport across the blood-brain barrier. <i>International Journal of Pharmaceutics</i> , 2002 , 248, 15-29	6.5	37
119	SIRT7 has a critical role in bone formation by regulating lysine acylation of SP7/Osterix. <i>Nature Communications</i> , 2018 , 9, 2833	17.4	36

118	Expression of nuclear receptor mRNA and liver X receptor-mediated regulation of ABC transporter A1 at rat blood-brain barrier. <i>Neurochemistry International</i> , 2008 , 52, 669-74	4.4	36
117	Endothelial cells constituting blood-nerve barrier have highly specialized characteristics as barrier-forming cells. <i>Cell Structure and Function</i> , 2007 , 32, 139-47	2.2	36
116	Correlation of induction of ATP binding cassette transporter A5 (ABCA5) and ABCB1 mRNAs with differentiation state of human colon tumor. <i>Biological and Pharmaceutical Bulletin</i> , 2007 , 30, 1144-6	2.3	36
115	Dominant expression of androgen receptors and their functional regulation of organic anion transporter 3 in rat brain capillary endothelial cells; comparison of gene expression between the blood-brain and -retinal barriers. <i>Journal of Cellular Physiology</i> , 2005 , 204, 896-900	7	34
114	cDNA cloning of mouse prolyl endopeptidase and its involvement in DNA synthesis by Swiss 3T3 cells. <i>Journal of Biochemistry</i> , 1998 , 123, 540-5	3.1	34
113	The blood-brain barrier fatty acid transport protein 1 (FATP1/SLC27A1) supplies docosahexaenoic acid to the brain, and insulin facilitates transport. <i>Journal of Neurochemistry</i> , 2017 , 141, 400-412	6	33
112	Quantitative targeted absolute proteomics for 28 human transporters in plasma membrane of Caco-2 cell monolayer cultured for 2, 3, and 4 weeks. <i>Drug Metabolism and Pharmacokinetics</i> , 2015 , 30, 205-8	2.2	33
111	Contribution of pannexin 1 and connexin 43 hemichannels to extracellular calcium-dependent transport dynamics in human blood-brain barrier endothelial cells. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2015 , 353, 192-200	4.7	32
110	Quantitative targeted proteomics for understanding the blood-brain barrier: towards pharmacoproteomics. <i>Expert Review of Proteomics</i> , 2014 , 11, 303-13	4.2	32
109	mRNA expression of the ATP-binding cassette transporter subfamily A (ABCA) in rat and human brain capillary endothelial cells. <i>Biological and Pharmaceutical Bulletin</i> , 2004 , 27, 1437-40	2.3	32
108	Induction of xCT gene expression and L-cystine transport activity by diethyl maleate at the inner blood-retinal barrier. <i>Investigative Ophthalmology and Visual Science</i> , 2002 , 43, 774-9		32
107	Brain-to-blood elimination of 24S-hydroxycholesterol from rat brain is mediated by organic anion transporting polypeptide 2 (oatp2) at the blood-brain barrier. <i>Journal of Neurochemistry</i> , 2007 , 103, 1430-8	6	31
106	Establishing a method to isolate rat brain capillary endothelial cells by magnetic cell sorting and dominant mRNA expression of multidrug resistance-associated protein 1 and 4 in highly purified rat brain capillary endothelial cells. <i>Pharmaceutical Research</i> , 2007 , 24, 688-94	4.5	31
105	Blood-brain barrier transport of a novel micro 1-specific opioid peptide, H-Tyr-D-Arg-Phe-beta-Ala-OH (TAPA). <i>Journal of Neurochemistry</i> , 2003 , 84, 1154-61	6	31
104	Quantitative Targeted Proteomics of Pancreatic Cancer: Deoxycytidine Kinase Protein Level Correlates to Progression-Free Survival of Patients Receiving Gemcitabine Treatment. <i>Molecular Pharmaceutics</i> , 2015 , 12, 3282-91	5.6	30
103	Quantitative targeted absolute proteomics-based large-scale quantification of proline-hydroxylated Fibrinogen in plasma for pancreatic cancer diagnosis. <i>Journal of Proteome Research</i> , 2013 , 12, 753-62	5.6	30
102	Involvement of multidrug resistance-associated protein 4 in efflux transport of prostaglandin E(2) across mouse blood-brain barrier and its inhibition by intravenous administration of cephalosporins. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2010 , 333, 912-9	4.7	30
101	Validation of uPA/SCID mouse with humanized liver as a human liver model: protein quantification of transporters, cytochromes P450, and UDP-glucuronosyltransferases by LC-MS/MS. <i>Drug Metabolism and Disposition</i> , 2014 , 42, 1039-43	4	29

100	Expression of ABC-type transport proteins in human platelets. <i>Pharmacogenetics and Genomics</i> , 2010 , 20, 396-400	1.9	29
99	Beneficial effects of estrogen in a mouse model of cerebrovascular insufficiency. <i>PLoS ONE</i> , 2009 , 4, e5159	3.7	29
98	Lack of brain-to-blood efflux transport activity of low-density lipoprotein receptor-related protein-1 (LRP-1) for amyloid-beta peptide(1-40) in mouse: involvement of an LRP-1-independent pathway. <i>Journal of Neurochemistry</i> , 2010 , 113, 1356-63	6	28
97	Tandem Mass Spectrometry Imaging Reveals Distinct Accumulation Patterns of Steroid Structural Isomers in Human Adrenal Glands. <i>Analytical Chemistry</i> , 2019 , 91, 8918-8925	7.8	27
96	Attenuation of prostaglandin E2 elimination across the mouse blood-brain barrier in lipopolysaccharide-induced inflammation and additive inhibitory effect of cefmetazole. <i>Fluids and Barriers of the CNS</i> , 2011 , 8, 24	7	27
95	A novel relationship between creatine transport at the blood-brain and blood-retinal barriers, creatine biosynthesis, and its use for brain and retinal energy homeostasis. <i>Sub-Cellular Biochemistry</i> , 2007 , 46, 83-98	5.5	27
94	Modulation and compensation of the mRNA expression of energy related transporters in the brain of glucose transporter 1-deficient mice. <i>Biological and Pharmaceutical Bulletin</i> , 2006 , 29, 1587-91	2.3	26
93	A new in vitro model for blood-cerebrospinal fluid barrier transport studies: an immortalized choroid plexus epithelial cell line derived from the tsA58 SV40 large T-antigen gene transgenic rat. <i>Advanced Drug Delivery Reviews</i> , 2004 , 56, 1875-85	18.5	26
92	Retinal-specific ATP-binding cassette transporter (ABCR/ABCA4) is expressed at the choroid plexus in rat brain. <i>Journal of Neurochemistry</i> , 2005 , 92, 1277-80	6	26
91	Acidic amino acid transport characteristics of a newly developed conditionally immortalized rat type 2 astrocyte cell line (TR-AST). <i>Cell Structure and Function</i> , 2001 , 26, 197-203	2.2	25
90	Pharmacoproteomics-based reconstruction of in vivo P-glycoprotein function at blood-brain barrier and brain distribution of substrate verapamil in pentylenetetrazole-kindled epilepsy, spontaneous epilepsy, and phenytoin treatment models. <i>Drug Metabolism and Disposition</i> , 2014 , 42, 1719-26	4	24
89	Reduction of L-type amino acid transporter 1 mRNA expression in brain capillaries in a mouse model of Parkinson's disease. <i>Biological and Pharmaceutical Bulletin</i> , 2010 , 33, 1250-2	2.3	24
88	Downregulation of GNA13-ERK network in prefrontal cortex of schizophrenia brain identified by combined focused and targeted quantitative proteomics. <i>Journal of Proteomics</i> , 2017 , 158, 31-42	3.9	23
87	Development of a lipoplex-type mRNA carrier composed of an ionizable lipid with a vitamin E scaffold and the KALA peptide for use as an ex vivo dendritic cell-based cancer vaccine. <i>Journal of Controlled Release</i> , 2019 , 310, 36-46	11.7	23
86	Attenuation of phosphorylation by deoxycytidine kinase is key to acquired gemcitabine resistance in a pancreatic cancer cell line: targeted proteomic and metabolomic analyses in PK9 cells. <i>Pharmaceutical Research</i> , 2012 , 29, 2006-16	4.5	23
85	Regulation of Tight-Junction Integrity by Insulin in an In Vitro Model of Human Blood-Brain Barrier. <i>Journal of Pharmaceutical Sciences</i> , 2017 , 106, 2599-2605	3.9	22
84	Molecular-weight-dependent, anionic-substrate-preferential transport of β -lactam antibiotics via multidrug resistance-associated protein 4. <i>Drug Metabolism and Pharmacokinetics</i> , 2011 , 26, 602-11	2.2	22
83	Identification of transporters associated with Etoposide sensitivity of stomach cancer cell lines and methotrexate sensitivity of breast cancer cell lines by quantitative targeted absolute proteomics. <i>Molecular Pharmacology</i> , 2013 , 83, 490-500	4.3	20

82	Involvement of insulin-degrading enzyme in insulin- and atrial natriuretic peptide-sensitive internalization of amyloid- β peptide in mouse brain capillary endothelial cells. <i>Journal of Alzheimer's Disease</i> , 2014 , 38, 185-200	4.3	20
81	High Expression of UGT1A1/1A6 in Monkey Small Intestine: Comparison of Protein Expression Levels of Cytochromes P450, UDP-Glucuronosyltransferases, and Transporters in Small Intestine of Cynomolgus Monkey and Human. <i>Molecular Pharmaceutics</i> , 2018 , 15, 127-140	5.6	20
80	ATP-Binding Cassette Transporter A Subfamily 8 Is a Sinusoidal Efflux Transporter for Cholesterol and Taurocholate in Mouse and Human Liver. <i>Molecular Pharmaceutics</i> , 2018 , 15, 343-355	5.6	19
79	Characterization of P-Glycoprotein Humanized Mice Generated by Chromosome Engineering Technology: Its Utility for Prediction of Drug Distribution to the Brain in Humans. <i>Drug Metabolism and Disposition</i> , 2018 , 46, 1756-1766	4	18
78	Nuclear localization and involvement in DNA synthesis of Sarcophaga prolyl endopeptidase. <i>Journal of Biochemistry</i> , 1997 , 121, 1176-81	3.1	18
77	mRNA expression and amino acid transport characteristics of cultured human brain microvascular endothelial cells (hBME). <i>Drug Metabolism and Pharmacokinetics</i> , 2002 , 17, 367-73	2.2	18
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