Sumio Ohtsuki

List of Publications by Year
in descending order

215	13,012	17440 63	28297 105
papers	citations	h-index	g-index

227	227	227	12220
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Quantitative targeted absolute proteomics of human bloodâ€“brain barrier transporters and receptors. Journal of Neurochemistry, 2011, 117, 333-345.	3.9	683
2	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. Pharmaceutical Research, 2008, 25, 1469-1483.	3.5	453
3	Multi-laboratory assessment of reproducibility, qualitative and quantitative performance of SWATH-mass spectrometry. Nature Communications, 2017, 8, 291.	12.8	423
4	Contribution of Carrier-Mediated Transport Systems to the Bloodâ€“Brain Barrier as a Supporting and Protecting Interface for the Brain; Importance for CNS Drug Discovery and Development. Pharmaceutical Research, 2007, 24, 1745-1758.	3.5	411
5	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. Drug Metabolism and Disposition, 2012, 40, 83-92.	3.3	373
6	Transcriptomic and Quantitative Proteomic Analysis of Transporters and Drug Metabolizing Enzymes in Freshly Isolated Human Brain Microvessels. Molecular Pharmaceutics, 2011, 8, 1332-1341.	4.6	324
7	A pericyteâ€derived angiopoietinâ€1 multimeric complex induces occludin gene expression in brain capillary endothelial cells through Tieâ€2 activation in vitro. Journal of Neurochemistry, 2004, 89, 503-513.	3.9	299
8	Quantitative Atlas of Bloodâ€“Brain Barrier Transporters, Receptors, and Tight Junction Proteins in Rats and Common Marmoset. Journal of Pharmaceutical Sciences, 2013, 102, 3343-3355.	3.3	198
9	Quantitative Membrane Protein Expression at the Bloodâ€“Brain Barrier of Adult and Younger Cynomolgus Monkeys. Journal of Pharmaceutical Sciences, 2011, 100, 3939-3950.	3.3	197
10	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. Journal of Neurochemistry, 2002, 83, 57-66.	3.9	196
11	Different core promoters possess distinct regulatory activities in the Drosophila embryo. Genes and Development, 1998, 12, 547-556.	5.9	193
12	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 Bloodâ€“Brain Barrier Model. Molecular Pharmaceutics, 2013, 10, 289-296.	4.6	190
13	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 bloodâ€“brain barrier in ddY, FVB, and C57BL/6J mice. Fluids and Barriers of the CNS, 2013, 10, 21.	5.0	185
14	The Bloodâ€“Brain Barrier Creatine Transporter is a Major Pathway for Supplying Creatine to the Brain. Journal of Cerebral Blood Flow and Metabolism, 2002, 22, 1327-1335.	4.3	161
15	New approaches to in vitro models of bloodâ€“brain barrier drug transport. Drug Discovery Today, 2003, 8, 944-954.	6.4	158
16	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. Journal of Cerebral Blood Flow and Metabolism, 2003, 23, 432-440.	4.3	151
17	GAT2/BGT-1 as a System Responsible for the Transport of Î³-Aminobutyric Acid at the Mouse Bloodâ€“Brain Barrier. Journal of Cerebral Blood Flow and Metabolism, 2001, 21, 1232-1239.	4.3	150
18	Simultaneous Absolute Quantification of 11 Cytochrome P450 Isoforms in Human Liver Microsomes by Liquid Chromatography Tandem Mass Spectrometry with In Silico Target Peptide Selection. Journal of Pharmaceutical Sciences, 2011, 100, 341-352.	3.3	150

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19	Distinct cellular expressions of creatine synthetic enzyme GAMT and creatine kinases uCKâ€Mi and CKâ€B suggest a novel neuronâ€“glial relationship for brain energy homeostasis. European Journal of Neuroscience, 2004, 20, 144-160.	2.6	149
20	Conditionally Immortalized Retinal Capillary Endothelial Cell Lines (TR-iBRB) Expressing Differentiated Endothelial Cell Functions Derived from a Transgenic Rat. Experimental Eye Research, 2001, 72, 163-172.	2.6	147
21	GAGA mediates the enhancer blocking activity of the eve promoter in the Drosophila embryo. Genes and Development, 1998, 12, 3325-3330.	5.9	145
22	Exogenous expression of claudin-5 induces barrier properties in cultured rat brain capillary endothelial cells. Journal of Cellular Physiology, 2007, 210, 81-86.	4.1	144
23	Functional expression of rat ABCG2 on the luminal side of brain capillaries and its enhancement by astrocyte-derived soluble factor(s). Journal of Neurochemistry, 2004, 90, 526-536.	3.9	131
24	Major role of organic anion transporter 3 in the transport of indoxyl sulfate in the kidney. Kidney International, 2002, 61, 1760-1768.	5.2	128
25	Blood-Brain Barrier Is Involved in the Efflux Transport of a Neuroactive Steroid, Dehydroepiandrosterone Sulfate, via Organic Anion Transporting Polypeptide 2. Journal of Neurochemistry, 2002, 75, 1907-1916.	3.9	127
26	Quantitative Targeted Absolute Proteomics-Based Adme Research as A New Path to Drug Discovery and Development: Methodology, Advantages, Strategy, and Prospects. Journal of Pharmaceutical Sciences, 2011, 100, 3547-3559.	3.3	125
27	Distinct spatio-temporal expression of ABCA and ABCG transporters in the developing and adult mouse brain. Journal of Neurochemistry, 2005, 95, 294-304.	3.9	121
28	Absolute Quantification and Differential Expression of Drug Transporters, Cytochrome P450 Enzymes, and UDP-Glucuronosyltransferases in Cultured Primary Human Hepatocytes. Drug Metabolism and Disposition, 2012, 40, 93-103.	3.3	121
29	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. Journal of Pharmacology and Experimental Therapeutics, 2011, 339, 579-588.	2.5	116
30	mRNA expression levels of tight junction protein genes in mouse brain capillary endothelial cells highly purified by magnetic cell sorting. Journal of Neurochemistry, 2008, 104, 147-154.	3.9	115
31	Functional characterization of the brain-to-blood efflux clearance of human amyloid-Î² peptide (1â€“40) across the rat bloodâ€“brain barrier. Neuroscience Research, 2006, 56, 246-252.	1.9	113
32	Establishment of a new conditionally immortalized human brain microvascular endothelial cell line retaining an in vivo bloodâ€“brain barrier function. Journal of Cellular Physiology, 2010, 225, 519-528.	4.1	109
33	Largeâ€scale multiplex absolute protein quantification of drugâ€metabolizing enzymes and transporters in human intestine, liver, and kidney microsomes by SWATHâ€MS: Comparison with MRM/SRM and HRâ€MRM/PRM. Proteomics, 2016, 16, 2106-2117.	2.2	109
34	Regulation of taurine transport at the blood-brain barrier by tumor necrosis factor-Î±, taurine and hypertonicity. Journal of Neurochemistry, 2002, 83, 1188-1195.	3.9	105
35	Insulin Facilitates the Hepatic Clearance of Plasma Amyloid Î²-Peptide (1â€“40) by Intracellular Translocation of Low-Density Lipoprotein Receptor-Related Protein 1 (LRP-1) to the Plasma Membrane in Hepatocytes. Molecular Pharmacology, 2007, 72, 850-855.	2.3	105
36	AÎ² Immunotherapy: Intracerebral Sequestration of AÎ² by an Anti-AÎ² Monoclonal Antibody 266 with High Affinity to Soluble AÎ². Journal of Neuroscience, 2009, 29, 11393-11398.	3.6	103

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37	mRNA Expression and Transport Characterization of Conditionally Immortalized Rat Brain Capillary Endothelial Cell Lines; a Newin vitroBBB Model for Drug Targeting. Journal of Drug Targeting, 2000, 8, 357-370.	4.4	102
38	Peripheral nerve pericytes modify the bloodâ€“nerve barrier function and tight junctional molecules through the secretion of various soluble factors. Journal of Cellular Physiology, 2011, 226, 255-266.	4.1	101
39	Major Involvement of Low-Density Lipoprotein Receptor-Related Protein 1 in the Clearance of Plasma Free Amyloid Î²-Peptide by the Liver. Pharmaceutical Research, 2006, 23, 1407-1416.	3.5	100
40	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. Pharmaceutical Research, 2001, 18, 1669-1676.	3.5	99
41	Peripheral Nerve pericytes originating from the bloodâ€“nerve barrier expresses tight junctional molecules and transporters as barrierâ€forming cells. Journal of Cellular Physiology, 2008, 217, 388-399.	4.1	99
42	The Low Density Lipoprotein Receptor-related Protein 1 Mediates Uptake of Amyloid Î² Peptides in an in Vitro Model of the Blood-Brain Barrier Cells. Journal of Biological Chemistry, 2008, 283, 34554-34562.	3.4	99
43	Depletion of Vitamin E Increases Amyloid Î² Accumulation by Decreasing Its Clearances from Brain and Blood in a Mouse Model of Alzheimer Disease. Journal of Biological Chemistry, 2009, 284, 33400-33408.	3.4	91
44	Brain Insulin Impairs Amyloid-Â(1-40) Clearance from the Brain. Journal of Neuroscience, 2004, 24, 9632-9637.	3.6	90
45	Matrix mechanotransduction mediated by thrombospondin-1/integrin/YAP in the vascular remodeling. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 9896-9905.	7.1	90
46	Identification of blood biomarkers in glioblastoma by SWATH mass spectrometry and quantitative targeted absolute proteomics. PLoS ONE, 2018, 13, e0193799.	2.5	87
47	Expression and regulation of L-cystine transporter, system xc?, in the newly developed rat retinal Mï¿½ller cell line (TR-MUL). Glia, 2003, 43, 208-217.	4.9	85
48	1Î±,25-Dihydroxyvitamin D3 enhances cerebral clearance of human amyloid-Î² peptide(1-40) from mouse brain across the blood-brain barrier. Fluids and Barriers of the CNS, 2011, 8, 20.	5.0	85
49	New Aspects of the Blood-Brain Barrier Transporters; Its Physiological Roles in the Central Nervous System. Biological and Pharmaceutical Bulletin, 2004, 27, 1489-1496.	1.4	84
50	Major involvement of Na⁺â€dependent multivitamin transporter (SLC5A6/SMVT) in uptake of biotin and pantothenic acid by human brain capillary endothelial cells. Journal of Neurochemistry, 2015, 134, 97-112.	3.9	81
51	Organic anion transporter 3 is involved in the brain-to-blood efflux transport of thiopurine nucleobase analogs. Journal of Neurochemistry, 2004, 90, 931-941.	3.9	80
52	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. Molecular Pharmaceutics, 2016, 13, 2691-2701.	4.6	80
53	Localization of norepinephrine and serotonin transporter in mouse brain capillary endothelial cells. Neuroscience Research, 2002, 44, 173-180.	1.9	76
54	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. PLoS ONE, 2016, 11, e0161009.	2.5	76

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55	Cerebral clearance of human amyloidâ€Î² peptide (1â€“40) across the bloodâ€“brain barrier is reduced by selfâ€aggregation and formation of lowâ€density lipoprotein receptorâ€related proteinâ€1 ligand complexes. Journal of Neurochemistry, 2007, 103, 2482-2490.	3.9	75
56	Mouse Reduced in Osteosclerosis Transporter Functions as an Organic Anion Transporter 3 and Is Localized at Abluminal Membrane of Blood-Brain Barrier. Journal of Pharmacology and Experimental Therapeutics, 2004, 309, 1273-1281.	2.5	74
57	Reduction in hepatic secondary bile acids caused by short-term antibiotic-induced dysbiosis decreases mouse serum glucose and triglyceride levels. Scientific Reports, 2018, 8, 1253.	3.3	73
58	Brain-to-blood transporters for endogenous substrates and xenobiotics at the blood-brain barrier: An overview of biology and methodology. NeuroRx, 2005, 2, 63-72.	6.0	72
59	Quantitative expression of human drug transporter proteins in lung tissues: Analysis of regional, gender, and interindividual differences by liquid chromatographyâ€“tandem mass spectrometry. Journal of Pharmaceutical Sciences, 2013, 102, 3395-3406.	3.3	72
60	ATA2 Is Predominantly Expressed as System A at the Blood-Brain Barrier and Acts as Brain-to-Blood Efflux Transport forl-Proline. Molecular Pharmacology, 2002, 61, 1289-1296.	2.3	71
61	ATP-Binding Cassette Transporter G2 Mediates the Efflux of Phototoxins on the Luminal Membrane of Retinal Capillary Endothelial Cells. Pharmaceutical Research, 2006, 23, 1235-1242.	3.5	69
62	Quantitative Determination of Luminal and Abluminal Membrane Distributions of Transporters in Porcine Brain Capillaries by Plasma Membrane Fractionation and Quantitative Targeted Proteomics. Journal of Pharmaceutical Sciences, 2015, 104, 3060-3068.	3.3	69
63	Trans-chromosomic mice containing a human CYP3A cluster for prediction of xenobiotic metabolism in humans. Human Molecular Genetics, 2013, 22, 578-592.	2.9	68
64	Involvement of Claudin-11 in Disruption of Blood-Brain, -Spinal Cord, and -Arachnoid Barriers in Multiple Sclerosis. Molecular Neurobiology, 2019, 56, 2039-2056.	4.0	66
65	Function and regulation of taurine transport at the inner bloodâ€“retinal barrier. Microvascular Research, 2007, 73, 100-106.	2.5	65
66	SIRT7 has a critical role in bone formation by regulating lysine acylation of SP7/Osterix. Nature Communications, 2018, 9, 2833.	12.8	65
67	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. Journal of Cerebral Blood Flow and Metabolism, 2003, , 432-440.	4.3	64
68	Conditionally immortalized brain capillary endothelial cell lines established from a transgenic mouse harboring temperature-sensitive simian virus 40 large T-antigen gene. AAPS PharmSci, 2000, 2, 69-79.	1.3	63
69	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. Molecular Pharmacology, 2003, 63, 532-537.	2.3	63
70	Internalization of basic fibroblast growth factor at the mouse blood-brain barrier involves perlecan, a heparan sulfate proteoglycan. Journal of Neurochemistry, 2002, 83, 381-389.	3.9	62
71	Multichannel Liquid Chromatographyâ€“Tandem Mass Spectrometry Cocktail Method for Comprehensive Substrate Characterization of Multidrug Resistance-Associated Protein 4 Transporter. Pharmaceutical Research, 2007, 24, 2281-2296.	3.5	62
72	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. Pharmaceutical Research, 2001, 18, 16-22.	3.5	61

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73	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. Journal of Controlled Release, 2019, 310, 36-46.	9.9	61
74	The Blood???Brain Barrier Creatine Transporter Is a Major Pathway for Supplying Creatine to the Brain. Journal of Cerebral Blood Flow and Metabolism, 2002, , 1327-1335.	4.3	60
75	Human Platelets Express Organic Anion-Transporting Peptide 2B1, an Uptake Transporter for Atorvastatin. Drug Metabolism and Disposition, 2009, 37, 1129-1137.	3.3	59
76	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. Journal of Neurochemistry, 2007, 100, 968-978.	3.9	58
77	The l-isomer-selective transport of aspartic acid is mediated by ASCT2 at the blood-brain barrier. Journal of Neurochemistry, 2004, 87, 891-901.	3.9	57
78	Enhancement of l-Cystine Transport Activity and Its Relation to xCT Gene Induction at the Blood-Brain Barrier by Diethyl Maleate Treatment. Journal of Pharmacology and Experimental Therapeutics, 2002, 302, 225-231.	2.5	55
79	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. Journal of Pharmaceutical Sciences, 2011, 100, 4037-4043.	3.3	55
80	Localization of organic anion transporting polypeptide 3 (oatp3) in mouse brain parenchymal and capillary endothelial cells. Journal of Neurochemistry, 2004, 90, 743-749.	3.9	54
81	Hyperammonemia induces transport of taurine and creatine and suppresses claudin-12 gene expression in brain capillary endothelial cells in vitro. Neurochemistry International, 2007, 50, 95-101.	3.8	53
82	Blood-Brain Barrier Pharmacoproteomics-Based Reconstruction of the In Vivo Brain Distribution of P-Glycoprotein Substrates in Cynomolgus Monkeys. Journal of Pharmacology and Experimental Therapeutics, 2014, 350, 578-588.	2.5	52
83	ATP-binding cassette transporter A1 (ABCA1) deficiency does not attenuate the brain-to-blood efflux transport of human amyloid-Î² peptide (1â€“40) at the bloodâ€“brain barrier. Neurochemistry International, 2008, 52, 956-961.	3.8	50
84	Tandem Mass Spectrometry Imaging Reveals Distinct Accumulation Patterns of Steroid Structural Isomers in Human Adrenal Glands. Analytical Chemistry, 2019, 91, 8918-8925.	6.5	48
85	A Prolyl Endopeptidase of Sarcophaga peregrina (Flesh Fly): Its Purification and Suggestion for Its Participation in the Differentiation of the Imaginal Discs1. Journal of Biochemistry, 1994, 115, 449-453.	1.7	46
86	Amyloidâ€Î² peptide(1â€40) elimination from cerebrospinal fluid involves lowâ€density lipoprotein receptorâ€related protein 1 at the bloodâ€cerebrospinal fluid barrier. Journal of Neurochemistry, 2011, 118, 407-415.	3.9	46
87	Correlation of Induction of ATP Binding Cassette Transporter A5 (ABCA5) and ABCB1 mRNAs with Differentiation State of Human Colon Tumor. Biological and Pharmaceutical Bulletin, 2007, 30, 1144-1146.	1.4	45
88	The bloodâ€brain barrier fatty acid transport protein 1 (<scp>FATP</scp>1/<scp>SLC</scp>27A1) supplies docosahexaenoic acid to the brain, and insulin facilitates transport. Journal of Neurochemistry, 2017, 141, 400-412.	3.9	45
89	Endothelial Cells Constituting Blood-nerve Barrier Have Highly Specialized Characteristics as Barrier-forming Cells. Cell Structure and Function, 2007, 32, 139-147.	1.1	44
90	Expression of nuclear receptor mRNA and liver X receptor-mediated regulation of ABC transporter A1 at rat bloodâ€“brain barrier. Neurochemistry International, 2008, 52, 669-674.	3.8	43

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91	Recent advances in the brain-to-blood efflux transport across the bloodâ€“brain barrier. International Journal of Pharmaceutics, 2002, 248, 15-29.	5.2	42
92	Functional characterization of Rat Plasma Membrane Monoamine Transporter in the Bloodâ€“Brain and Bloodâ€“Cerebrospinal Fluid Barriers. Journal of Pharmaceutical Sciences, 2011, 100, 3924-3938.	3.3	41
93	cDNA Cloning of Mouse Prolyl Endopeptidase and Its Involvement in DNA Synthesis by Swiss 3T3 Cells. Journal of Biochemistry, 1998, 123, 540-545.	1.7	40
94	Downregulation of GNA13-ERK network in prefrontal cortex of schizophrenia brain identified by combined focused and targeted quantitative proteomics. Journal of Proteomics, 2017, 158, 31-42.	2.4	40
95	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). Cell Structure and Function, 2003, 28, 145-153.	1.1	39
96	Lack of brainâ€toâ€blood efflux transport activity of lowâ€density lipoprotein receptorâ€related proteinâ€1 (LRPâ€1) for amyloidâ€Î² peptide(1â€“40) in mouse: involvement of an LRPâ€1â€independent pathway. Journal of Neurochemistry, 2010, 113, 1356-1363.	3.9	39
97	Contribution of Pannexin 1 and Connexin 43 Hemichannels to Extracellular Calciumâ€“Dependent Transport Dynamics in Human Blood-Brain Barrier Endothelial Cells. Journal of Pharmacology and Experimental Therapeutics, 2015, 353, 192-200.	2.5	39
98	Induction of xCT gene expression and L-cystine transport activity by diethyl maleate at the inner blood-retinal barrier. Investigative Ophthalmology and Visual Science, 2002, 43, 774-9.	3.3	39
99	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. Journal of Cellular Physiology, 2005, 204, 896-900.	4.1	38
100	Quantitative targeted proteomics for understanding the bloodâ€“brain barrier: towards pharmacoproteomics. Expert Review of Proteomics, 2014, 11, 303-313.	3.0	38
101	Quantitative Targeted Proteomics of Pancreatic Cancer: Deoxycytidine Kinase Protein Level Correlates to Progression-Free Survival of Patients Receiving Gemcitabine Treatment. Molecular Pharmaceutics, 2015, 12, 3282-3291.	4.6	38
102	Quantitative targeted absolute proteomics for 28 human transporters in plasma membrane of Caco-2 cell monolayer cultured for 2, 3, and 4Âweeks. Drug Metabolism and Pharmacokinetics, 2015, 30, 205-208.	2.2	38
103	Brainâ€toâ€blood elimination of 24Sâ€hydroxycholesterol from rat brain is mediated by organic anion transporting polypeptide 2 (oatp2) at the bloodâ€“brain barrier. Journal of Neurochemistry, 2007, 103, 1430-1438.	3.9	37
104	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. Drug Metabolism and Disposition, 2014, 42, 1039-1043.	3.3	37
105	Blood-brain barrier transport of a novel Âµ1-specific opioid peptide, H-Tyr-d-Arg-Phe-Î²-Ala-OH (TAPA). Journal of Neurochemistry, 2003, 84, 1154-1161.	3.9	35
106	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. , 2007, 46, 83-98.		35
107	mRNA Expression of the ATP-Binding Cassette Transporter Subfamily A (ABCA) in Rat and Human Brain Capillary Endothelial Cells. Biological and Pharmaceutical Bulletin, 2004, 27, 1437-1440.	1.4	34
108	Beneficial Effects of Estrogen in a Mouse Model of Cerebrovascular Insufficiency. PLoS ONE, 2009, 4, e5159.	2.5	34

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109	Involvement of Multidrug Resistance-Associated Protein 4 in Efflux Transport of Prostaglandin E₂ across Mouse Blood-Brain Barrier and Its Inhibition by Intravenous Administration of Cephalosporins. Journal of Pharmacology and Experimental Therapeutics, 2010, 333, 912-919.	2.5	33
110	Attenuation of prostaglandin E2 elimination across the mouse blood-brain barrier in lipopolysaccharide-induced inflammation and additive inhibitory effect of cefmetazole. Fluids and Barriers of the CNS, 2011, 8, 24.	5.0	33
111	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. Pharmaceutical Research, 2007, 24, 688-694.	3.5	32
112	Expression of ABC-type transport proteins in human platelets. Pharmacogenetics and Genomics, 2010, 20, 396-400.	1.5	32
113	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. Molecular Pharmaceutics, 2018, 15, 127-140.	4.6	32
114	Quantitative Targeted Absolute Proteomics-Based Large-Scale Quantification of Proline-Hydroxylated Î±-Fibrinogen in Plasma for Pancreatic Cancer Diagnosis. Journal of Proteome Research, 2013, 12, 753-762.	3.7	31
115	Regulation of Tight-Junction Integrity by Insulin in an InÂVitro Model of Human Bloodâ€“Brain Barrier. Journal of Pharmaceutical Sciences, 2017, 106, 2599-2605.	3.3	31
116	Oxidative stress-induced activation of Abl and Src kinases rapidly induces P-glycoprotein internalization via phosphorylation of caveolin-1 on tyrosine-14, decreasing cortisol efflux at the bloodâ€“brain barrier. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 420-436.	4.3	31
117	Novel cyclic peptides facilitating transcellular blood-brain barrier transport of macromolecules in vitro and in vivo. Journal of Controlled Release, 2020, 321, 744-755.	9.9	30
118	Acidic Amino Acid Transport Characteristics of a Newly Developed Conditionally Immortalized Rat Type 2 Astrocyte Cell Line (TR-AST).. Cell Structure and Function, 2001, 26, 197-203.	1.1	29
119	Molecular-weight-dependent, Anionic-substrate-preferential Transport of Î²-Lactam Antibiotics via Multidrug Resistance-associated Protein 4. Drug Metabolism and Pharmacokinetics, 2011, 26, 602-611.	2.2	29
120	Involvement of Insulin-Degrading Enzyme in Insulin- and Atrial Natriuretic Peptide-Sensitive Internalization of Amyloid-Î² Peptide in Mouse Brain Capillary Endothelial Cells. Journal of Alzheimer's Disease, 2013, 38, 185-200.	2.6	29
121	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. Drug Metabolism and Disposition, 2014, 42, 1719-1726.	3.3	29
122	Changes of Blood-Brain Barrier and Brain Parenchymal Protein Expression Levels of Mice under Different Insulin-Resistance Conditions Induced by High-Fat Diet. Pharmaceutical Research, 2019, 36, 141.	3.5	29
123	Modulation and Compensation of the mRNA Expression of Energy Related Transporters in the Brain of Glucose Transporter 1-Deficient Mice. Biological and Pharmaceutical Bulletin, 2006, 29, 1587-1591.	1.4	28
124	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. Advanced Drug Delivery Reviews, 2004, 56, 1875-1885.	13.7	27
125	Retinal-specific ATP-binding cassette transporter (ABCR/ABCA4) is expressed at the choroid plexus in rat brain. Journal of Neurochemistry, 2005, 92, 1277-1280.	3.9	27
126	Reduction of L-Type Amino Acid Transporter 1 mRNA Expression in Brain Capillaries in a Mouse Model of Parkinson's Disease. Biological and Pharmaceutical Bulletin, 2010, 33, 1250-1252.	1.4	27

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127	mRNA Expression and Amino Acid Transport Characteristics of Cultured Human Brain Microvascular Endothelial Cells (hBME). Drug Metabolism and Pharmacokinetics, 2002, 17, 367-373.	2.2	23
128	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. Pharmaceutical Research, 2012, 29, 2006-2016.	3.5	23
129	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. Molecular Pharmacology, 2013, 83, 490-500.	2.3	23
130	ATP-Binding Cassette Transporter A Subfamily 8 Is a Sinusoidal Efflux Transporter for Cholesterol and Taurocholate in Mouse and Human Liver. Molecular Pharmaceutics, 2018, 15, 343-355.	4.6	23
131	Identification of cyclic peptides for facilitation of transcellular transport of phages across intestinal epithelium in vitro and in vivo. Journal of Controlled Release, 2017, 262, 232-238.	9.9	22
132	Nuclear Localization and Involvement in DNA Synthesis of Sarcophaga Prolyl Endopeptidase. Journal of Biochemistry, 1997, 121, 1176-1181.	1.7	21
133	Characterization of P-Glycoprotein Humanized Mice Generated by Chromosome Engineering Technology: Its Utility for Prediction of Drug Distribution to the Brain in Humans. Drug Metabolism and Disposition, 2018, 46, 1756-1766.	3.3	21
134	Is P-glycoprotein Involved in Amyloid-Î² Elimination Across the Bloodâ€“Brain Barrier in Alzheimerâ€™s Disease?. Clinical Pharmacology and Therapeutics, 2010, 88, 443-445.	4.7	20
135	Establishment and characterization of spinal cord microvascular endothelial cell lines. Clinical and Experimental Neuroimmunology, 2013, 4, 326-338.	1.0	20
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