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List of Publications by Citations

161 papers	5,159 citations	39 h-index	65 g-index
176 ext. papers	6,103 ext. citations	5.1 avg, IF	5.71 L-index

#	Paper	IF	Citations
161	SLC38A9 is a component of the lysosomal amino acid sensing machinery that controls mTORC1. *Nature*, **2015**, 519, 477-81	50.4	430
160	PNPLA3 has retinyl-palmitate lipase activity in human hepatic stellate cells. *Human Molecular Genetics*, **2014**, 23, 4077-85	5.6	230
159	Mitochondrial metabolite carrier proteins: purification, reconstitution, and transport studies. *Methods in Enzymology*, **1995**, 260, 349-69	1.7	210
158	Impaired Amino Acid Transport at the Blood Brain Barrier Is a Cause of Autism Spectrum Disorder. *Cell*, **2016**, 167, 1481-1494.e18	56.2	163
157	The mitochondrial carnitine/acylcarnitine carrier: function, structure and physiopathology. *Molecular Aspects of Medicine*, **2011**, 32, 223-33	16.7	142
156	Membrane transporters for the special amino acid glutamine: structure/function relationships and relevance to human health. *Frontiers in Chemistry*, **2014**, 2, 61	5	141
155	The mitochondrial carnitine carrier protein: cDNA cloning, primary structure and comparison with other mitochondrial transport proteins. *Biochemical Journal*, **1997**, 321 (Pt 3), 713-9	3.8	131
154	Cloning of the human carnitine-acylcarnitine carrier cDNA and identification of the molecular defect in a patient. *American Journal of Human Genetics*, **1997**, 61, 1239-45	11	119
153	Recombinant PNPLA3 protein shows triglyceride hydrolase activity and its I148M mutation results in loss of function. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2014**, 1841, 574-80	5	118
152	The Human SLC7A5 (LAT1): The Intriguing Histidine/Large Neutral Amino Acid Transporter and Its Relevance to Human Health. *Frontiers in Chemistry*, **2018**, 6, 243	5	114
151	Identification and purification of the carnitine carrier from rat liver mitochondria. *Biochimica Et Biophysica Acta - Bioenergetics*, **1990**, 1020, 81-6	4.6	99
150	Glutamine Transport and Mitochondrial Metabolism in Cancer Cell Growth. *Frontiers in Oncology*, **2017**, 7, 306	5.3	93
149	Exosomes in inflammation and role as biomarkers. *Clinica Chimica Acta*, **2019**, 488, 165-171	6.2	92
148	The Human SLC1A5 (ASCT2) Amino Acid Transporter: From Function to Structure and Role in Cell Biology. *Frontiers in Cell and Developmental Biology*, **2018**, 6, 96	5.7	88
147	LAT1 is the transport competent unit of the LAT1/CD98 heterodimeric amino acid transporter. *International Journal of Biochemistry and Cell Biology*, **2015**, 67, 25-33	5.6	77
146	OCTN cation transporters in health and disease: role as drug targets and assay development. *Journal of Biomolecular Screening*, **2013**, 18, 851-67		76
145	Functional properties of purified and reconstituted mitochondrial metabolite carriers. *Journal of Bioenergetics and Biomembranes*, **1993**, 25, 525-35	3.7	75

144	Riboflavin transport and metabolism in humans. *Journal of Inherited Metabolic Disease*, **2016**, 39, 545-57	5.4	70
143	Bacterial overexpression, purification, and reconstitution of the carnitine/acylcarnitine carrier from rat liver mitochondria. *Biochemical and Biophysical Research Communications*, **1998**, 249, 589-94	3.4	69
142	The reconstituted carnitine carrier from rat liver mitochondria: evidence for a transport mechanism different from that of the other mitochondrial translocators. *Biochimica Et Biophysica Acta - Biomembranes*, **1994**, 1189, 65-73	3.8	65
141	Over-expression in Escherichia coli and characterization of two recombinant isoforms of human FAD synthetase. *Biochemical and Biophysical Research Communications*, **2006**, 344, 1008-16	3.4	62
140	Identification and purification of the ornithine/citrulline carrier from rat liver mitochondria. *FEBS Journal*, **1992**, 207, 449-54		54
139	Proteoliposomes as tool for assaying membrane transporter functions and interactions with xenobiotics. *Pharmaceutics*, **2013**, 5, 472-97	6.4	52
138	The purified and reconstituted ornithine/citrulline carrier from rat liver mitochondria: electrical nature and coupling of the exchange reaction with H+ translocation. *Biochemical Journal*, **1997**, 327 (Pt 2), 349-55	3.8	51
137	Inactivation of the glutamine/amino acid transporter ASCT2 by 1,2,3-dithiazoles: proteoliposomes as a tool to gain insights in the molecular mechanism of action and of antitumor activity. *Toxicology and Applied Pharmacology*, **2012**, 265, 93-102	4.6	50
136	Large scale production of the active human ASCT2 (SLC1A5) transporter in Pichia pastoris--functional and kinetic asymmetry revealed in proteoliposomes. *Biochimica Et Biophysica Acta - Biomembranes*, **2013**, 1828, 2238-46	3.8	48
135	Biosynthesis of flavin cofactors in man: implications in health and disease. *Current Pharmaceutical Design*, **2013**, 19, 2649-75	3.3	48
134	Transport mechanism and regulatory properties of the human amino acid transporter ASCT2 (SLC1A5). *Amino Acids*, **2014**, 46, 2463-75	3.5	47
133	Potent inhibitors of human LAT1 (SLC7A5) transporter based on dithiazole and dithiazine compounds for development of anticancer drugs. *Biochemical Pharmacology*, **2017**, 143, 39-52	6	47
132	Mitochondrial localization of human FAD synthetase isoform 1. *Mitochondrion*, **2010**, 10, 263-73	4.9	47
131	Reaction mechanism of the reconstituted oxoglutarate carrier from bovine heart mitochondria. *FEBS Journal*, **1991**, 198, 339-47		46
130	Identification and purification of the reconstitutively active glutamine carrier from rat kidney mitochondria. *Biochemical Journal*, **1998**, 333 (Pt 2), 285-90	3.8	45
129	N-linked glycosylation of human SLC1A5 (ASCT2) transporter is critical for trafficking to membrane. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2015**, 1853, 1636-45	4.9	43
128	Glutamine transport. From energy supply to sensing and beyond. *Biochimica Et Biophysica Acta - Bioenergetics*, **2016**, 1857, 1147-1157	4.6	43
127	E6 and E7 from human papillomavirus type 16 cooperate to target the PDZ protein Na/H exchange regulatory factor 1. *Journal of Virology*, **2011**, 85, 8208-16	6.6	43

126	Site-directed mutagenesis and chemical modification of the six native cysteine residues of the rat mitochondrial carnitine carrier: implications for the role of cysteine-136. *Biochemistry*, **2002**, 41, 8649-56	3.2	43
125	The human OCTN1 (SLC22A4) reconstituted in liposomes catalyzes acetylcholine transport which is defective in the mutant L503F associated to the Crohn's disease. *Biochimica Et Biophysica Acta - Biomembranes*, **2012**, 1818, 559-65	3.8	42
124	Identification by site-directed mutagenesis and chemical modification of three vicinal cysteine residues in rat mitochondrial carnitine/acylcarnitine transporter. *Journal of Biological Chemistry*, **2005**, 280, 19607-12	5.4	42
123	OCTN: A Small Transporter Subfamily with Great Relevance to Human Pathophysiology, Drug Discovery, and Diagnostics. *SLAS Discovery*, **2019**, 24, 89-110	3.4	40
122	Reconstitution into liposomes and functional characterization of the carnitine transporter from renal cell plasma membrane. *Biochimica Et Biophysica Acta - Biomembranes*, **2004**, 1661, 78-86	3.8	39
121	Novel insights into the transport mechanism of the human amino acid transporter LAT1 (SLC7A5). Probing critical residues for substrate translocation. *Biochimica Et Biophysica Acta - General Subjects* , **2017**, 1861, 727-736	4	37
120	Human FAD synthase (isoform 2): a component of the machinery that delivers FAD to apo-flavoproteins. *FEBS Journal*, **2011**, 278, 4434-49	5.7	37
119	The glutamine/amino acid transporter (ASCT2) reconstituted in liposomes: transport mechanism, regulation by ATP and characterization of the glutamine/glutamate antiport. *Biochimica Et Biophysica Acta - Biomembranes*, **2007**, 1768, 291-8	3.8	37
118	Kinetic characterization of the reconstituted ornithine carrier from rat liver mitochondria. *Biochimica Et Biophysica Acta - Bioenergetics*, **1994**, 1188, 293-301	4.6	37
117	Substrate-bound outward-open structure of a Na-coupled sialic acid symporter reveals a new Na site. *Nature Communications*, **2018**, 9, 1753	17.4	36
116	Interaction of beta-lactam antibiotics with the mitochondrial carnitine/acylcarnitine transporter. *Chemico-Biological Interactions*, **2008**, 173, 187-94	5	34
115	Over-expression in Escherichia coli, purification and characterization of isoform 2 of human FAD synthetase. *Protein Expression and Purification*, **2007**, 52, 175-81	2	33
114	Glutathione controls the redox state of the mitochondrial carnitine/acylcarnitine carrier Cys residues by glutathionylation. *Biochimica Et Biophysica Acta - General Subjects*, **2013**, 1830, 5299-304	4	32
113	Inactivation by Hg2+ and methylmercury of the glutamine/amino acid transporter (ASCT2) reconstituted in liposomes: Prediction of the involvement of a CXXC motif by homology modelling. *Biochemical Pharmacology*, **2010**, 80, 1266-73	6	32
112	Site-directed mutagenesis of charged amino acids of the human mitochondrial carnitine/acylcarnitine carrier: insight into the molecular mechanism of transport. *Biochimica Et Biophysica Acta - Bioenergetics*, **2010**, 1797, 839-45	4.6	31
111	Reconstitution in liposomes of the functionally active human OCTN1 (SLC22A4) transporter overexpressed in Escherichia coli. *Biochemical Journal*, **2011**, 439, 227-33	3.8	30
110	Cysteine is not a substrate but a specific modulator of human ASCT2 (SLC1A5) transporter. *FEBS Letters*, **2015**, 589, 3617-23	3.8	28
109	Regulation by physiological cations of acetylcholine transport mediated by human OCTN1 (SLC22A4). Implications in the non-neuronal cholinergic system. *Life Sciences*, **2012**, 91, 1013-6	6.8	28

108	IkappaB kinase beta promotes cell survival by antagonizing p53 functions through DeltaNp73alpha phosphorylation and stabilization. *Molecular and Cellular Biology*, **2011**, 31, 2210-26	4.8	27
107	Reconstitution into liposomes of the glutamine/amino acid transporter from renal cell plasma membrane: functional characterization, kinetics and activation by nucleotides. *Biochimica Et Biophysica Acta - Biomembranes*, **2004**, 1667, 122-31	3.8	27
106	Relationships of Cysteine and Lysine residues with the substrate binding site of the mitochondrial ornithine/citrulline carrier: an inhibition kinetic approach combined with the analysis of the homology structural model. *Biochimica Et Biophysica Acta - Biomembranes*, **2005**, 1718, 53-60	3.8	25
105	Probing the Active Site of the Reconstituted Carnitine Carrier from Rat Liver Mitochondria with Sulfhydryl Reagents. A Cysteine Residue is Localized in or Near the Substrate Binding Site. *FEBS Journal*, **1995**, 228, 271-278		25
104	Inactivation by omeprazole of the carnitine transporter (OCTN2) reconstituted in liposomes. *Chemico-Biological Interactions*, **2009**, 179, 394-401	5	23
103	Mitochondrial carnitine/acylcarnitine translocase: insights in structure/ function relationships. Basis for drug therapy and side effects prediction. *Mini-Reviews in Medicinal Chemistry*, **2015**, 15, 396-405	3.2	23
102	Human FAD synthase is a bi-functional enzyme with a FAD hydrolase activity in the molybdopterin binding domain. *Biochemical and Biophysical Research Communications*, **2015**, 465, 443-9	3.4	22
101	Functional characterization of residues within the carnitine/acylcarnitine translocase RX2PANAAXF distinct motif. *Molecular Membrane Biology*, **2008**, 25, 152-63	3.4	22
100	Bacterial Production, Characterization and Protein Modeling of a Novel Monofuctional Isoform of FAD Synthase in Humans: An Emergency Protein?. *Molecules*, **2018**, 23,	4.8	21
99	Strategies of bacterial over expression of membrane transporters relevant in human health: the successful case of the three members of OCTN subfamily. *Molecular Biotechnology*, **2013**, 54, 724-36	3	21
98	Over-expression in Escherichia coli, functional characterization and refolding of rat dimethylglycine dehydrogenase. *Protein Expression and Purification*, **2004**, 37, 434-42	2	21
97	Discovery of Potent Inhibitors for the Large Neutral Amino Acid Transporter 1 (LAT1) by Structure-Based Methods. *International Journal of Molecular Sciences*, **2018**, 20,	6.3	21
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95	Human OCTN2 (SLC22A5) is down-regulated in virus- and nonvirus-mediated cancer. *Cell Biochemistry and Function*, **2012**, 30, 419-25	4.2	20
94	Conformation-dependent accessibility of Cys-136 and Cys-155 of the mitochondrial rat carnitine/acylcarnitine carrier to membrane-impermeable SH reagents. *Biochimica Et Biophysica Acta - Bioenergetics*, **2007**, 1767, 1331-9	4.6	20
93	The purified and reconstituted ornithine/citrulline carrier from rat liver mitochondria catalyses a second transport mode: ornithine+/H+ exchange. *Biochemical Journal*, **1999**, 341, 705-711	3.8	20
92	The Link Between the Mitochondrial Fatty Acid Oxidation Derangement and Kidney Injury. *Frontiers in Physiology*, **2020**, 11, 794	4.6	20
91	The mitochondrial carnitine/acylcarnitine carrier is regulated by hydrogen sulfide via interaction with C136 and C155. *Biochimica Et Biophysica Acta - General Subjects*, **2016**, 1860, 20-7	4	19

90	Nitric oxide inhibits the mitochondrial carnitine/acylcarnitine carrier through reversible S-nitrosylation of cysteine 136. *Biochimica Et Biophysica Acta - Bioenergetics*, **2017**, 1858, 475-482	4.6	19
89	Mitochondrial carnitine/acylcarnitine transporter, a novel target of mercury toxicity. *Chemical Research in Toxicology*, **2015**, 28, 1015-22	4	19
88	Bacterial over-expression and purification of the 3$phosphoadenosine 5$phosphosulfate (PAPS) reductase domain of human FAD synthase: functional characterization and homology modeling. *International Journal of Molecular Sciences*, **2012**, 13, 16880-98	6.3	19
87	Nimesulide binding site in the B0AT1 (SLC6A19) amino acid transporter. Mechanism of inhibition revealed by proteoliposome transport assay and molecular modelling. *Biochemical Pharmacology*, **2014**, 89, 422-30	6	18
86	Over-expression in E. coli and purification of the human OCTN2 transport protein. *Molecular Biotechnology*, **2012**, 50, 1-7	3	18
85	Over-expression in Escherichia coli, purification and reconstitution in liposomes of the third member of the OCTN sub-family: the mouse carnitine transporter OCTN3. *Biochemical and Biophysical Research Communications*, **2012**, 422, 59-63	3.4	18
84	Over-expression in E. coli and purification of the human OCTN1 transport protein. *Protein Expression and Purification*, **2009**, 68, 215-20	2	18
83	Decreased mitochondrial carnitine translocase in skeletal muscles impairs utilization of fatty acids in insulin-resistant patients. *Frontiers in Bioscience - Landmark*, **2002**, 7, a109-16	2.8	18
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81	Inhibition of mitochondrial carnitine/acylcarnitine transporter by H(2)O(2): molecular mechanism and possible implication in pathophysiology. *Chemico-Biological Interactions*, **2013**, 203, 423-9	5	17
80	Characterization of Exosomal SLC22A5 (OCTN2) carnitine transporter. *Scientific Reports*, **2018**, 8, 3758	4.9	16
79	Cloning, large scale over-expression in E. coli and purification of the components of the human LAT 1 (SLC7A5) amino acid transporter. *Protein Journal*, **2013**, 32, 442-8	3.9	16
78	Site-directed mutagenesis of the His residues of the rat mitochondrial carnitine/acylcarnitine carrier: implications for the role of His-29 in the transport pathway. *Biochimica Et Biophysica Acta - Bioenergetics*, **2009**, 1787, 1009-15	4.6	16
77	Significance of redox-active cysteines in human FAD synthase isoform 2. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2014**, 1844, 2086-95	4	15
76	Functional and molecular effects of mercury compounds on the human OCTN1 cation transporter: C50 and C136 are the targets for potent inhibition. *Toxicological Sciences*, **2015**, 144, 105-13	4.4	15
75	Reconstitution into liposomes of the B degrees -like glutamine-neutral amino acid transporter from renal cell plasma membrane. *Biochimica Et Biophysica Acta - Biomembranes*, **2008**, 1778, 2258-65	3.8	15
74	Synthesis and characterization of carnitine nitro-derivatives. *Bioorganic and Medicinal Chemistry*, **2008**, 16, 1444-51	3.4	15
73	Kinetic mechanism of antiports catalyzed by reconstituted ornithine/citrulline carrier from rat liver mitochondria. *Biochimica Et Biophysica Acta - Bioenergetics*, **2001**, 1503, 303-13	4.6	15

72	Molecular mechanism of inhibition of the mitochondrial carnitine/acylcarnitine transporter by omeprazole revealed by proteoliposome assay, mutagenesis and bioinformatics. *PLoS ONE*, **2013**, 8, e82286	3.7	15
71	Cys Site-Directed Mutagenesis of the Human SLC1A5 (ASCT2) Transporter: Structure/Function Relationships and Crucial Role of Cys467 for Redox Sensing and Glutamine Transport. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	14
70	Insights into the transport side of the human SLC38A9 transceptor. *Biochimica Et Biophysica Acta - Biomembranes*, **2019**, 1861, 1558-1567	3.8	14
69	Carnitine/acylcarnitine translocase and carnitine palmitoyltransferase 2 form a complex in the inner mitochondrial membrane. *Molecular and Cellular Biochemistry*, **2014**, 394, 307-14	4.2	14
68	Inhibition of the OCTN2 carnitine transporter by HgCl2 and methylmercury in the proteoliposome experimental model: insights in the mechanism of toxicity. *Toxicology Mechanisms and Methods*, **2013**, 23, 68-76	3.6	14
67	Effects of heavy metal cations on the mitochondrial ornithine/citrulline transporter reconstituted in liposomes. *BioMetals*, **2011**, 24, 1205-15	3.4	14
66	Interaction of mildronate with the mitochondrial carnitine/acylcarnitine transport protein. *Journal of Biochemical and Molecular Toxicology*, **2008**, 22, 8-14	3.4	14
65	Reconstitution in Proteoliposomes of the Recombinant Human Riboflavin Transporter 2 (SLC52A2) Overexpressed in. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	13
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63	The Sodium Sialic Acid Symporter From Has Altered Substrate Specificity. *Frontiers in Chemistry*, **2018**, 6, 233	5	13
62	Repurposing Nimesulide, a Potent Inhibitor of the B0AT1 Subunit of the SARS-CoV-2 Receptor, as a Therapeutic Adjuvant of COVID-19. *SLAS Discovery*, **2020**, 25, 1171-1173	3.4	12
61	Acetylcholine and acetylcarnitine transport in peritoneum: Role of the SLC22A4 (OCTN1) transporter. *Biochimica Et Biophysica Acta - Biomembranes*, **2016**, 1858, 653-60	3.8	12
60	The hidden side of the human FAD synthase 2. *International Journal of Biological Macromolecules*, **2019**, 138, 986-995	7.9	12
59	Post-translational modification by acetylation regulates the mitochondrial carnitine/acylcarnitine transport protein. *Molecular and Cellular Biochemistry*, **2017**, 426, 65-73	4.2	12
58	Membrane Transporters for Amino Acids as Players of Cancer Metabolic Rewiring. *Cells*, **2020**, 9,	7.9	12
57	Immuno-detection of OCTN1 (SLC22A4) in HeLa cells and characterization of transport function. *International Immunopharmacology*, **2015**, 29, 21-6	5.8	11
56	Glutamine transporters as pharmacological targets: From function to drug design. *Asian Journal of Pharmaceutical Sciences*, **2020**, 15, 207-219	9	11
55	Identification of amino acid residues underlying the antiport mechanism of the mitochondrial carnitine/acylcarnitine carrier by site-directed mutagenesis and chemical labeling. *Biochemistry*, **2014**, 53, 6924-33	3.2	11

54	Cardiac and hepatic role of r-AtHSP70: basal effects and protection against ischemic and sepsis conditions. *Journal of Cellular and Molecular Medicine*, **2015**, 19, 1492-503	5.6	11
53	Localization of mitochondrial carnitine/acylcarnitine translocase in sensory neurons from rat dorsal root ganglia. *Neurochemical Research*, **2013**, 38, 2535-41	4.6	11
52	Studying Interactions of Drugs with Cell Membrane Nutrient Transporters: New Frontiers of Proteoliposome Nanotechnology. *Current Pharmaceutical Design*, **2017**, 23, 3871-3883	3.3	11
51	The Carnitine Transporter Network: Interactions with Drugs. *Current Chemical Biology*, **2010**, 4, 108-123	0.4	11
50	ATP modulates SLC7A5 (LAT1) synergistically with cholesterol. *Scientific Reports*, **2020**, 10, 16738	4.9	11
49	Interaction of Cholesterol With the Human SLC1A5 (ASCT2): Insights Into Structure/Function Relationships. *Frontiers in Molecular Biosciences*, **2019**, 6, 110	5.6	10
48	Studying amino acid transport using liposomes. *Methods in Molecular Biology*, **2010**, 606, 55-68	1.4	10
47	Carnitine Traffic in Cells. Link With Cancer. *Frontiers in Cell and Developmental Biology*, **2020**, 8, 583850	5.7	10
46	Effect of peritoneal dialysis fluid containing osmo-metabolic agents on human endothelial cells. *Drug Design, Development and Therapy*, **2016**, 10, 3925-3932	4.4	10
45	Recombinant Arabidopsis HSP70 Sustains Cell Survival and Metastatic Potential of Breast Cancer Cells. *Molecular Cancer Therapeutics*, **2016**, 15, 1063-73	6.1	9
44	The receptor protein tyrosine phosphatase PTPRJ negatively modulates the CD98hc oncoprotein in lung cancer cells. *Oncotarget*, **2018**, 9, 23334-23348	3.3	9
43	The Human SLC1A5 Neutral Amino Acid Transporter Catalyzes a pH-Dependent Glutamate/Glutamine Antiport, as Well. *Frontiers in Cell and Developmental Biology*, **2020**, 8, 603	5.7	9
42	Mutation of Aspartate 238 in FAD Synthase Isoform 6 Increases the Specific Activity by Weakening the FAD Binding. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	9
41	Chemical Targeting of Membrane Transporters: Insights into Structure/Function Relationships. *ACS Omega*, **2020**, 5, 2069-2080	3.9	8
40	SLC6A14, a Pivotal Actor on Cancer Stage: When Function Meets Structure. *SLAS Discovery*, **2019**, 24, 928-938	3.4	8
39	The purified and reconstituted ornithine/citrulline carrier from rat liver mitochondria catalyses a second transport mode: ornithine+/H+ exchange. *Biochemical Journal*, **1999**, 341, 705	3.8	8
38	Description of LAT1 Transport Mechanism at an Atomistic Level. *Frontiers in Chemistry*, **2018**, 6, 350	5	8
37	Effect of Copper on the Mitochondrial Carnitine/Acylcarnitine Carrier Via Interaction with Cys136 and Cys155. Possible Implications in Pathophysiology. *Molecules*, **2020**, 25,	4.8	6

36	Exploiting Cysteine Residues of SLC Membrane Transporters as Targets for Drugs. *SLAS Discovery*, **2019**, 24, 867-881	3.4	6
35	Functional reconstitution into liposomes and characterization of the carnitine transporter from rat liver microsomes. *Biochimica Et Biophysica Acta - Biomembranes*, **2006**, 1758, 124-31	3.8	6
34	Human mitochondrial carnitine acylcarnitine carrier: Molecular target of dietary bioactive polyphenols from sweet cherry (Prunus avium L.). *Chemico-Biological Interactions*, **2019**, 307, 179-185	5	5
33	A Genetic Variant of ASCT2 Hampers In Vitro RNA Splicing and Correlates with Human Longevity. *Rejuvenation Research*, **2018**, 21, 193-199	2.6	5
32	Structure/function relationships of the human mitochondrial ornithine/citrulline carrier by Cys site-directed mutagenesis. Relevance to mercury toxicity. *International Journal of Biological Macromolecules*, **2018**, 120, 93-99	7.9	5
31	Tryptophan 224 of the rat mitochondrial carnitine/acylcarnitine carrier is crucial for the antiport mechanism. *Biochimica Et Biophysica Acta - Bioenergetics*, **2019**, 1860, 708-716	4.6	5
30	The Mitochondrial Carnitine Acyl-carnitine Carrier (SLC25A20): Molecular Mechanisms of Transport, Role in Redox Sensing and Interaction with Drugs. *Biomolecules*, **2021**, 11,	5.9	5
29	Effect of Cholesterol on the Organic Cation Transporter OCTN1 (SLC22A4). *International Journal of Molecular Sciences*, **2020**, 21,	6.3	4
28	Low temperature bacterial expression of the neutral amino acid transporters SLC1A5 (ASCT2), and SLC6A19 (B0AT1). *Molecular Biology Reports*, **2020**, 47, 7283-7289	2.8	4
27	ASCT1 and ASCT2: Brother and Sister?. *SLAS Discovery*, **2021**, 26, 1148-1163	3.4	4
26	The glutamine/amino acid transporter (ASCT2) reconstituted in liposomes: electrical nature of the glutamine/glutamate antiport. *Italian Journal of Biochemistry*, **2007**, 56, 275-8		4
25	Bacterial production and reconstitution in proteoliposomes of Solanum lycopersicum CAT2: a transporter of basic amino acids and organic cations. *Plant Molecular Biology*, **2017**, 94, 657-667	4.6	3
24	The Carnitine Transporter Network: Interactions with Drugs. *Current Chemical Biology*, **2010**, 4, 108-123	0.4	3
23	OCTN1: A Widely Studied but Still Enigmatic Organic Cation Transporter Linked to Human Pathology and Drug Interactions.. *International Journal of Molecular Sciences*, **2022**, 23,	6.3	3
22	Cholesterol stimulates the cellular uptake of L-carnitine by the carnitine/organic cation transporter novel 2 (OCTN2). *Journal of Biological Chemistry*, **2021**, 296, 100204	5.4	3
21	Regulatory Aspects of the Vacuolar CAT2 Arginine Transporter of : Role of Osmotic Pressure and Cations. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	2
20	Human papillomavirus type 77 E7 protein is a weak deregulator of cell cycle. *Cancer Letters*, **2007**, 246, 274-81	9.9	2
19	The role of cholesterol recognition (CARC/CRAC) mirror codes in the allosterism of the human organic cation transporter 2 (OCT2, SLC22A2). *Biochemical Pharmacology*, **2021**, 194, 114840	6	2

18	The involvement of sodium in the function of the human amino acid transporter ASCT2. *FEBS Letters*, **2021**, 595, 3030	3.8	2
17	Chemical Approaches for Studying the Biology and Pharmacology of Membrane Transporters: The Histidine/Large Amino Acid Transporter SLC7A5 as a Benchmark. *Molecules*, **2021**, 26,	4.8	2
16	Structure-based virtual screening to identify novel carnitine acetyltransferase activators. *Journal of Molecular Graphics and Modelling*, **2020**, 100, 107692	2.8	2
15	Human papillomavirus type 38 alters wild-type p53 activity to promote cell proliferation via the downregulation of integrin alpha 1 expression. *PLoS Pathogens*, **2020**, 16, e1008792	7.6	2
14	Functional Study of the Human Riboflavin Transporter 2 Using Proteoliposomes System. *Methods in Molecular Biology*, **2021**, 2280, 45-54	1.4	2
13	Impact of natural mutations on the riboflavin transporter 2 and their relevance to human riboflavin transporter deficiency 2. *IUBMB Life*, **2021**,	4.7	2
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11	MICS1 is the Ca2+/H+ antiporter of mammalian mitochondria		1
10	The Nutraceutical Alliin From Garlic Is a Novel Substrate of the Essential Amino Acid Transporter LAT1 (SLC7A5).. *Frontiers in Pharmacology*, **2022**, 13, 877576	5.6	0
9	Bacterial over-expression of functionally active human CT2 (SLC22A16) carnitine transporter. *Molecular Biology Reports*,	2.8	0
8	AMINO ACID TRANSPORTERS IN DRUG DISCOVERY **2014**, 1, 1-16		
7	Probing the Active Site of the Reconstituted Carnitine Carrier from Rat Liver Mitochondria with Sulfhydryl Reagents. A Cysteine Residue is Localized in or Near the Substrate Binding Site. *FEBS Journal*, **1995**, 228, 271-278		
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