Giuseppe Fiermonte

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5633150/publications.pdf

Version: 2024-02-01

59 papers	4,217 citations	126907 33 h-index	133252 59 g-index
62 all docs	62 docs citations	62 times ranked	4442 citing authors

#	Article	IF	Citations
1	UCP2 transports C4 metabolites out of mitochondria, regulating glucose and glutamine oxidation. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 960-965.	7.1	322
2	Abundant bacterial expression and reconstitution of an intrinsic membrane-transport protein from bovine mitochondria. Biochemical Journal, 1993, 294, 293-299.	3.7	203
3	Identification of the Mitochondrial ATP-Mg/Pi Transporter. Journal of Biological Chemistry, 2004, 279, 30722-30730.	3.4	193
4	The human mitochondrial deoxynucleotide carrier and its role in the toxicity of nucleoside antivirals. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 2284-2288.	7.1	183
5	Identification of the Mitochondrial Glutamate Transporter. Journal of Biological Chemistry, 2002, 277, 19289-19294.	3.4	175
6	MTCH2/MIMP is a major facilitator of tBID recruitment to mitochondria. Nature Cell Biology, 2010, 12, 553-562.	10.3	154
7	Molecular Identification and Functional Characterization of Arabidopsis thaliana Mitochondrial and Chloroplastic NAD+ Carrier Proteins. Journal of Biological Chemistry, 2009, 284, 31249-31259.	3.4	151
8	Impaired Mitochondrial Glutamate Transport in Autosomal Recessive Neonatal Myoclonic Epilepsy. American Journal of Human Genetics, 2005, 76, 334-339.	6.2	149
9	Knockout of Slc25a19 causes mitochondrial thiamine pyrophosphate depletion, embryonic lethality, CNS malformations, and anemia. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 15927-15932.	7.1	147
10	Mutant deoxynucleotide carrier is associated with congenital microcephaly. Nature Genetics, 2002, 32, 175-179.	21.4	141
11	Recombinant Expression of the Ca2+-sensitive Aspartate/Glutamate Carrier Increases Mitochondrial ATP Production in Agonist-stimulated Chinese Hamster Ovary Cells. Journal of Biological Chemistry, 2003, 278, 38686-38692.	3.4	138
12	Identification of the human mitochondrial S-adenosylmethionine transporter: bacterial expression, reconstitution, functional characterization and tissue distribution. Biochemical Journal, 2004, 379, 183-190.	3.7	137
13	A Novel Member of Solute Carrier Family 25 (SLC25A42) Is a Transporter of Coenzyme A and Adenosine 3â€²,5â€²-Diphosphate in Human Mitochondria. Journal of Biological Chemistry, 2009, 284, 18152-18159.	3.4	134
14	Expression in Escherichia coli, Functional Characterization, and Tissue Distribution of Isoforms A and B of the Phosphate Carrier from Bovine Mitochondria. Journal of Biological Chemistry, 1998, 273, 22782-22787.	3.4	130
15	The Sequence, Bacterial Expression, and Functional Reconstitution of the Rat Mitochondrial Dicarboxylate Transporter Cloned via Distant Homologs in Yeast and Caenorhabditis elegans. Journal of Biological Chemistry, 1998, 273, 24754-24759.	3.4	121
16	The Mitochondrial Ornithine Transporter. Journal of Biological Chemistry, 2003, 278, 32778-32783.	3.4	117
17	Mitochondrial metabolite transporters. Biochimica Et Biophysica Acta - Bioenergetics, 1996, 1275, 127-132.	1.0	114
18	Mutations in the mitochondrial glutamate carrier SLC25A22 in neonatal epileptic encephalopathy with suppression bursts. Clinical Genetics, 2009, 76, 188-194.	2.0	105

#	Article	IF	Citations
19	Identification of the Human Mitochondrial Oxodicarboxylate Carrier. Journal of Biological Chemistry, 2001, 276, 8225-8230.	3.4	103
20	Identification and functions of new transporters in yeast mitochondria. Biochimica Et Biophysica Acta - Bioenergetics, 2000, 1459, 363-369.	1.0	90
21	Yeast mitochondrial carriers: bacterial expression, biochemical identification and metabolic significance. Journal of Bioenergetics and Biomembranes, 2000, 32, 67-77.	2.3	84
22	Citrin deficiency, a perplexing global disorder. Molecular Genetics and Metabolism, 2009, 96, 44-49.	1.1	81
23	The Human Gene SLC25A29, of Solute Carrier Family 25, Encodes a Mitochondrial Transporter of Basic Amino Acids. Journal of Biological Chemistry, 2014, 289, 13374-13384.	3.4	72
24	The hyperornithinemiaâ€“hyperammonemia-homocitrullinuria syndrome. Orphanet Journal of Rare Diseases, 2015, 10, 29.	2.7	65
25	KRAS-regulated glutamine metabolism requires UCP2-mediated aspartate transport to support pancreatic cancer growth. Nature Metabolism, 2020, 2, 1373-1381.	11.9	62
26	Transmembrane topology, genes, and biogenesis of the mitochondrial phosphate and oxoglutarate carriers. Journal of Bioenergetics and Biomembranes, 1993, 25, 493-501.	2.3	60
27	Identification of novel mutations in theSLC25A15gene in hyperornithinemia-hyperammonemia-homocitrullinuria (HHH) syndrome: A clinical, molecular, and functional study. Human Mutation, 2009, 30, 741-748.	2.5	57
28	The complementary and divergent roles of uncoupling proteins 1 and 3 in thermoregulation. Journal of Physiology, 2016, 594, 7455-7464.	2.9	51
29	Organization and sequence of the gene for the human mitochondrial dicarboxylate carrier: evolution of the carrier family. Biochemical Journal, 1999, 344, 953-960.	3.7	47
30	The mitochondrial oxoglutarate carrier: from identification to mechanism. Journal of Bioenergetics and Biomembranes, 2013, 45, 1-13.	2.3	40
31	Tissue-specific expression of the two isoforms of the mitochondrial phosphate carrier in bovine tissues. FEBS Letters, 1996, 399, 95-98.	2.8	39
32	Riboflavin responsive mitochondrial myopathy is a new phenotype of dihydrolipoamide dehydrogenase deficiency. The chaperon-like effect of vitamin B2. Mitochondrion, 2014, 18, 49-57.	3.4	39
33	Novel mutations in IBA57 are associated with leukodystrophy and variable clinical phenotypes. Journal of Neurology, 2017, 264, 102-111.	3.6	38
34	Novel Hypoglycemia Phenotype in Congenital Hyperinsulinism Due to Dominant Mutations of Uncoupling Protein 2. Journal of Clinical Endocrinology and Metabolism, 2017, 102, 942-949.	3.6	36
35	The human uncoupling proteins 5 and 6 (UCP5/SLC25A14 and UCP6/SLC25A30) transport sulfur oxyanions, phosphate and dicarboxylates. Biochimica Et Biophysica Acta - Bioenergetics, 2019, 1860, 724-733.	1.0	35
36	Transgenic expression of the deoxynucleotide carrier causes mitochondrial damage that is enhanced by NRTIs for AIDS. Laboratory Investigation, 2005, 85, 972-981.	3.7	33

#	Article	IF	Citations
37	Biochemical characterization of a new mitochondrial transporter of dephosphocoenzyme A in Drosophila melanogaster. Biochimica Et Biophysica Acta - Bioenergetics, 2017, 1858, 137-146.	1.0	33
38	A new Caucasian case of neonatal intrahepatic cholestasis caused by citrin deficiency (NICCD): A clinical, molecular, and functional study. Molecular Genetics and Metabolism, 2011, 104, 501-506.	1.1	32
39	Nucleotide sequence of a human heart cDNA encoding the mitochondrial phosphate carrier. DNA Sequence, 1991, 2, 133-135.	0.7	28
40	An Adult with Type 2 Citrullinemia Presenting in Europe. New England Journal of Medicine, 2008, 358, 1408-1409.	27.0	26
41	ISCA1 mutation in a patient with infantile-onset leukodystrophy causes defects in mitochondrial [4Feâ€“4S] proteins. Human Molecular Genetics, 2018, 27, 2739-2754.	2.9	25
42	Sequence and pattern of expression of a bovine homologue of a human mitochondrial transport protein associated with Grave's disease. DNA Sequence, 1992, 3, 71-78.	0.7	22
43	Down-regulation of the mitochondrial aspartate-glutamate carrier isoform 1 AGC1 inhibits proliferation and N-acetylaspartate synthesis in Neuro2A cells. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2017, 1863, 1422-1435.	3.8	22
44	Recombinant M protein-based ELISA test for detection of antibodies to canine coronavirus. Journal of Virological Methods, 2003, 109, 139-142.	2.1	20
45	Mitochondrial transport and metabolism of the vitamin Bâ€derived cofactors thiamine pyrophosphate, coenzyme A,<scp>FAD</scp>and<scp>NAD</scp>⁺, and related diseases: A review. IUBMB Life, 2022, 74, 592-617.	3.4	19
46	New insights about the structural rearrangements required for substrate translocation in the bovine mitochondrial oxoglutarate carrier. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2016, 1864, 1473-1480.	2.3	18
47	Functional characterization of the partially purified Sac1p independent adenine nucleotide transport system (ANTS) from yeast endoplasmic reticulum. Journal of Biochemistry, 2018, 164, 313-322.	1.7	16
48	Drosophila melanogaster Mitochondrial Carriers: Similarities and Differences with the Human Carriers. International Journal of Molecular Sciences, 2020, 21, 6052.	4.1	16
49	Organization and sequence of the gene for the human mitochondrial dicarboxylate carrier: evolution of the carrier family. Biochemical Journal, 1999, 344, 953.	3.7	13
50	Drosophila melanogaster Uncoupling Protein-4A (UCP4A) Catalyzes a Unidirectional Transport of Aspartate. International Journal of Molecular Sciences, 2022, 23, 1020.	4.1	12
51	Glutamine-Derived Aspartate Biosynthesis in Cancer Cells: Role of Mitochondrial Transporters and New Therapeutic Perspectives. Cancers, 2022, 14, 245.	3.7	12
52	Cloning, Purification, and Characterization of the Catalytic C-Terminal Domain of the Human 3-Hydroxy-3-methyl glutaryl-CoA Reductase: An Effective, Fast, and Easy Method for Testing Hypocholesterolemic Compounds. Molecular Biotechnology, 2020, 62, 119-131.	2.4	11
53	Genomic organization and mapping of the gene (SLC25A19) encoding the human mitochondrial deoxynucleotide carrier (DNC). Cytogenetic and Genome Research, 2001, 93, 40-42.	1.1	9
54	Mitochondrial carriers of UstilagoÂmaydis and AspergillusÂterreus involved in itaconate production: same physiological role but different biochemical features. FEBS Letters, 2020, 594, 728-739.	2.8	9

#	Article	IF	Citations
55	The mitochondrial aspartate/glutamate carrier (AGC or Aralar1) isoforms in D. melanogaster: biochemical characterization, gene structure, and evolutionary analysis. Biochimica Et Biophysica Acta - General Subjects, 2021, 1865, 129854.	2.4	9
56	ISCA1 mutation in a patient with infantile-onset leukodystrophy causes defects in mitochondrial [4Feâ€“4S] proteins. Human Molecular Genetics, 2018, 27, 3650-3650.	2.9	6
57	An Overview of Mitochondrial Protein Defects in Neuromuscular Diseases. Biomolecules, 2021, 11, 1633.	4.0	6
58	Assignment<footref rid="foot01">¹</footref> of the human dicarboxylate carrier gene (DIC) to chromosome 17 band 17q25.3. Cytogenetic and Genome Research, 1998, 83, 238-239.	1.1	4
59	CUGC for hyperornithinemia-hyperammonemia-homocitrullinuria (HHH) syndrome. European Journal of Human Genetics, 2020, 28, 982-987.	2.8	3