

Giuseppe Fiermonte

List of Publications by Year in descending order

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59
papers

4,217
citations

145106

33
h-index

150775

59
g-index

62
all docs

62
docs citations

62
times ranked

4886
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Drosophila melanogaster</i> Uncoupling Protein-4A (UCP4A) Catalyzes a Unidirectional Transport of Aspartate. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1020.	1.8	12
2	Glutamine-Derived Aspartate Biosynthesis in Cancer Cells: Role of Mitochondrial Transporters and New Therapeutic Perspectives. <i>Cancers</i> , 2022, 14, 245.	1.7	12
3	Mitochondrial transport and metabolism of the vitamin B ₆ -derived cofactors thiamine pyrophosphate, coenzyme A, FAD and NAD ⁺ , and related diseases: A review. <i>IUBMB Life</i> , 2022, 74, 592-617.	1.5	19
4	The mitochondrial aspartate/glutamate carrier (AGC or Aralar1) isoforms in <i>D. melanogaster</i> : biochemical characterization, gene structure, and evolutionary analysis. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2021, 1865, 129854.	1.1	9
5	An Overview of Mitochondrial Protein Defects in Neuromuscular Diseases. <i>Biomolecules</i> , 2021, 11, 1633.	1.8	6
6	Mitochondrial carriers of <i>Ustilago maydis</i> and <i>Aspergillus terreus</i> involved in itaconate production: same physiological role but different biochemical features. <i>FEBS Letters</i> , 2020, 594, 728-739.	1.3	9
7	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. <i>Molecular Biotechnology</i> , 2020, 62, 119-131.	1.3	11
8	KRAS-regulated glutamine metabolism requires UCP2-mediated aspartate transport to support pancreatic cancer growth. <i>Nature Metabolism</i> , 2020, 2, 1373-1381.	5.1	62
9	<i>Drosophila melanogaster</i> Mitochondrial Carriers: Similarities and Differences with the Human Carriers. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6052.	1.8	16
10	CUGC for hyperornithinemia-hyperammonemia-homocitrullinuria (HHH) syndrome. <i>European Journal of Human Genetics</i> , 2020, 28, 982-987.	1.4	3
11	The human uncoupling proteins 5 and 6 (UCP5/SLC25A14 and UCP6/SLC25A30) transport sulfur oxyanions, phosphate and dicarboxylates. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2019, 1860, 724-733.	0.5	35
12	ISCA1 mutation in a patient with infantile-onset leukodystrophy causes defects in mitochondrial [4Fe-4S] proteins. <i>Human Molecular Genetics</i> , 2018, 27, 3650-3650.	1.4	6
13	ISCA1 mutation in a patient with infantile-onset leukodystrophy causes defects in mitochondrial [4Fe-4S] proteins. <i>Human Molecular Genetics</i> , 2018, 27, 2739-2754.	1.4	25
14	Functional characterization of the partially purified Sac1p independent adenine nucleotide transport system (ANTS) from yeast endoplasmic reticulum. <i>Journal of Biochemistry</i> , 2018, 164, 313-322.	0.9	16
15	Down-regulation of the mitochondrial aspartate-glutamate carrier isoform 1 AGC1 inhibits proliferation and N-acetylaspartate synthesis in Neuro2A cells. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017, 1863, 1422-1435.	1.8	22
16	Novel Hypoglycemia Phenotype in Congenital Hyperinsulinism Due to Dominant Mutations of Uncoupling Protein 2. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2017, 102, 942-949.	1.8	36
17	Biochemical characterization of a new mitochondrial transporter of dephosphocoenzyme A in <i>Drosophila melanogaster</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2017, 1858, 137-146.	0.5	33
18	Novel mutations in IBA57 are associated with leukodystrophy and variable clinical phenotypes. <i>Journal of Neurology</i> , 2017, 264, 102-111.	1.8	38

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19	New insights about the structural rearrangements required for substrate translocation in the bovine mitochondrial oxoglutarate carrier. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2016, 1864, 1473-1480.	1.1	18
20	The complementary and divergent roles of uncoupling proteins 1 and 3 in thermoregulation. <i>Journal of Physiology</i> , 2016, 594, 7455-7464.	1.3	51
21	The hyperornithinemiaâ€“hyperammonemia-homocitrullinuria syndrome. <i>Orphanet Journal of Rare Diseases</i> , 2015, 10, 29.	1.2	65
22	The Human Gene SLC25A29, of Solute Carrier Family 25, Encodes a Mitochondrial Transporter of Basic Amino Acids. <i>Journal of Biological Chemistry</i> , 2014, 289, 13374-13384.	1.6	72
23	Riboflavin responsive mitochondrial myopathy is a new phenotype of dihydrolipoamide dehydrogenase deficiency. The chaperon-like effect of vitamin B2. <i>Mitochondrion</i> , 2014, 18, 49-57.	1.6	39
24	UCP2 transports C4 metabolites out of mitochondria, regulating glucose and glutamine oxidation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 960-965.	3.3	322
25	The mitochondrial oxoglutarate carrier: from identification to mechanism. <i>Journal of Bioenergetics and Biomembranes</i> , 2013, 45, 1-13.	1.0	40
26	A new Caucasian case of neonatal intrahepatic cholestasis caused by citrin deficiency (NICCD): A clinical, molecular, and functional study. <i>Molecular Genetics and Metabolism</i> , 2011, 104, 501-506.	0.5	32
27	MTCH2/MIMP is a major facilitator of tBID recruitment to mitochondria. <i>Nature Cell Biology</i> , 2010, 12, 553-562.	4.6	154
28	Molecular Identification and Functional Characterization of Arabidopsis thaliana Mitochondrial and Chloroplastic NAD ⁺ Carrier Proteins. <i>Journal of Biological Chemistry</i> , 2009, 284, 31249-31259.	1.6	151
29	A Novel Member of Solute Carrier Family 25 (SLC25A42) Is a Transporter of Coenzyme A and Adenosine 3â€™,5â€™-Diphosphate in Human Mitochondria. <i>Journal of Biological Chemistry</i> , 2009, 284, 18152-18159.	1.6	134
30	Identification of novel mutations in the <i>SLC25A15</i> gene in hyperornithinemia-hyperammonemia-homocitrullinuria (HHH) syndrome: A clinical, molecular, and functional study. <i>Human Mutation</i> , 2009, 30, 741-748.	1.1	57
31	Mutations in the mitochondrial glutamate carrier <i>SLC25A22</i> in neonatal epileptic encephalopathy with suppression bursts. <i>Clinical Genetics</i> , 2009, 76, 188-194.	1.0	105
32	Citrin deficiency, a perplexing global disorder. <i>Molecular Genetics and Metabolism</i> , 2009, 96, 44-49.	0.5	81
33	An Adult with Type 2 Citrullinemia Presenting in Europe. <i>New England Journal of Medicine</i> , 2008, 358, 1408-1409.	13.9	26
34	Knockout of <i>Slc25a19</i> causes mitochondrial thiamine pyrophosphate depletion, embryonic lethality, CNS malformations, and anemia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 15927-15932.	3.3	147
35	Transgenic expression of the deoxynucleotide carrier causes mitochondrial damage that is enhanced by NRTIs for AIDS. <i>Laboratory Investigation</i> , 2005, 85, 972-981.	1.7	33
36	Impaired Mitochondrial Glutamate Transport in Autosomal Recessive Neonatal Myoclonic Epilepsy. <i>American Journal of Human Genetics</i> , 2005, 76, 334-339.	2.6	149

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37	Identification of the human mitochondrial S-adenosylmethionine transporter: bacterial expression, reconstitution, functional characterization and tissue distribution. <i>Biochemical Journal</i> , 2004, 379, 183-190.	1.7	137
38	Identification of the Mitochondrial ATP-Mg/Pi Transporter. <i>Journal of Biological Chemistry</i> , 2004, 279, 30722-30730.	1.6	193
39	Recombinant M protein-based ELISA test for detection of antibodies to canine coronavirus. <i>Journal of Virological Methods</i> , 2003, 109, 139-142.	1.0	20
40	Recombinant Expression of the Ca ²⁺ -sensitive Aspartate/Glutamate Carrier Increases Mitochondrial ATP Production in Agonist-stimulated Chinese Hamster Ovary Cells. <i>Journal of Biological Chemistry</i> , 2003, 278, 38686-38692.	1.6	138
41	The Mitochondrial Ornithine Transporter. <i>Journal of Biological Chemistry</i> , 2003, 278, 32778-32783.	1.6	117
42	Identification of the Mitochondrial Glutamate Transporter. <i>Journal of Biological Chemistry</i> , 2002, 277, 19289-19294.	1.6	175
43	Mutant deoxynucleotide carrier is associated with congenital microcephaly. <i>Nature Genetics</i> , 2002, 32, 175-179.	9.4	141
44	Genomic organization and mapping of the gene (SLC25A19) encoding the human mitochondrial deoxynucleotide carrier (DNC). <i>Cytogenetic and Genome Research</i> , 2001, 93, 40-42.	0.6	9
45	Identification of the Human Mitochondrial Oxodicarboxylate Carrier. <i>Journal of Biological Chemistry</i> , 2001, 276, 8225-8230.	1.6	103
46	The human mitochondrial deoxynucleotide carrier and its role in the toxicity of nucleoside antivirals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 2284-2288.	3.3	183
47	Yeast mitochondrial carriers: bacterial expression, biochemical identification and metabolic significance. <i>Journal of Bioenergetics and Biomembranes</i> , 2000, 32, 67-77.	1.0	84
48	Identification and functions of new transporters in yeast mitochondria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2000, 1459, 363-369.	0.5	90
49	Organization and sequence of the gene for the human mitochondrial dicarboxylate carrier: evolution of the carrier family. <i>Biochemical Journal</i> , 1999, 344, 953.	1.7	13
50	Organization and sequence of the gene for the human mitochondrial dicarboxylate carrier: evolution of the carrier family. <i>Biochemical Journal</i> , 1999, 344, 953-960.	1.7	47
51	Assignment<footref rid="foot01">¹</footref> of the human dicarboxylate carrier gene (DIC) to chromosome 17 band 17q25.3. <i>Cytogenetic and Genome Research</i> , 1998, 83, 238-239.	0.6	4
52	The Sequence, Bacterial Expression, and Functional Reconstitution of the Rat Mitochondrial Dicarboxylate Transporter Cloned via Distant Homologs in Yeast and <i>Caenorhabditis elegans</i> . <i>Journal of Biological Chemistry</i> , 1998, 273, 24754-24759.	1.6	121
53	Expression in <i>Escherichia coli</i> , Functional Characterization, and Tissue Distribution of Isoforms A and B of the Phosphate Carrier from Bovine Mitochondria. <i>Journal of Biological Chemistry</i> , 1998, 273, 22782-22787.	1.6	130
54	Mitochondrial metabolite transporters. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1996, 1275, 127-132.	0.5	114

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55	Tissue-specific expression of the two isoforms of the mitochondrial phosphate carrier in bovine tissues. <i>FEBS Letters</i> , 1996, 399, 95-98.	1.3	39
56	Transmembrane topology, genes, and biogenesis of the mitochondrial phosphate and oxoglutarate carriers. <i>Journal of Bioenergetics and Biomembranes</i> , 1993, 25, 493-501.	1.0	60
57	Abundant bacterial expression and reconstitution of an intrinsic membrane-transport protein from bovine mitochondria. <i>Biochemical Journal</i> , 1993, 294, 293-299.	1.7	203
58	Sequence and pattern of expression of a bovine homologue of a human mitochondrial transport protein associated with Grave's disease. <i>DNA Sequence</i> , 1992, 3, 71-78.	0.7	22
59	Nucleotide sequence of a human heart cDNA encoding the mitochondrial phosphate carrier. <i>DNA Sequence</i> , 1991, 2, 133-135.	0.7	28