

# Antonio Zorzano

## List of Publications by Year in descending order

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Version: 2024-02-01

93  
papers

11,441  
citations

44069

48  
h-index

43889

91  
g-index

95  
all docs

95  
docs citations

95  
times ranked

15244  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nek4 regulates mitochondrial respiration and morphology. FEBS Journal, 2022, 289, 3262-3279.	4.7	6
2	Coordination of mitochondrial and lysosomal homeostasis mitigates inflammation and muscle atrophy during aging. Aging Cell, 2022, 21, e13583.	6.7	19
3	Altered Mitochondrial Opa1-Related Fusion in Mouse Promotes Endothelial Cell Dysfunction and Atherosclerosis. Antioxidants, 2022, 11, 1078.	5.1	10
4	THE BNIP3 TRIAD: MITOCHONDRIA, LYSOSOMES AND INFLAMMATION IN HEALTHY MUSCLE AGING. , 2022, 1, 252-255.		1
5	Stochastic modulation evidences a transitory EGF-Ras-ERK MAPK activity induced by PRMT5. Computers in Biology and Medicine, 2021, 133, 104339.	7.0	5
6	The ubiquitin-proteasome system and autophagy: self-digestion for metabolic health. Trends in Endocrinology and Metabolism, 2021, 32, 594-608.	7.1	11
7	Increased glycolysis is an early consequence of palmitate lipotoxicity mediated by redox signaling. Redox Biology, 2021, 45, 102026.	9.0	15
8	Disrupted circadian oscillations in type 2 diabetes are linked to altered rhythmic mitochondrial metabolism in skeletal muscle. Science Advances, 2021, 7, eabi9654.	10.3	44
9	Neuregulin 4 Downregulation Induces Insulin Resistance in 3T3-L1 Adipocytes through Inflammation and Autophagic Degradation of GLUT4 Vesicles. International Journal of Molecular Sciences, 2021, 22, 12960.	4.1	7
10	Mitofusin 2 in Macrophages Links Mitochondrial ROS Production, Cytokine Release, Phagocytosis, Autophagy, and Bactericidal Activity. Cell Reports, 2020, 32, 108079.	6.4	93
11	Involvement of the mitochondrial nuclease EndoG in the regulation of cell proliferation through the control of reactive oxygen species. Redox Biology, 2020, 37, 101736.	9.0	7
12	Self-Eating for Muscle Fitness: Autophagy in the Control of Energy Metabolism. Developmental Cell, 2020, 54, 268-281.	7.0	22
13	Macrophage mitochondrial MFN2 (mitofusin 2) links immune stress and immune response through reactive oxygen species (ROS) production. Autophagy, 2020, 16, 2307-2309.	9.1	35
14	The dialogue between the ubiquitin-proteasome system and autophagy: Implications in ageing. Ageing Research Reviews, 2020, 64, 101203.	10.9	47
15	Neuregulin, an Effector on Mitochondria Metabolism That Preserves Insulin Sensitivity. Frontiers in Physiology, 2020, 11, 696.	2.8	14
16	Aquaglyceroporins Are Differentially Expressed in Beige and White Adipocytes. International Journal of Molecular Sciences, 2020, 21, 610.	4.1	12
17	Metabolic implications of organelle-mitochondria communication. EMBO Reports, 2019, 20, e47928.	4.5	94
18	TP53INP2 at the crossroad of apoptosis and autophagy in death receptor signaling. Molecular and Cellular Oncology, 2019, 6, e1632687.	0.7	5

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19	Inducible Slc7a7 Knockout Mouse Model Recapitulates Lysinuric Protein Intolerance Disease. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5294.	4.1	21
20	CD98hc (SLC3A2) sustains amino acid and nucleotide availability for cell cycle progression. <i>Scientific Reports</i> , 2019, 9, 14065.	3.3	30
21	Functional characterization of the alanine-serine-cysteine exchanger of <i>Carnobacterium</i> sp AT7. <i>Journal of General Physiology</i> , 2019, 151, 505-517.	1.9	8
22	Autophagy Exacerbates Muscle Wasting in Cancer Cachexia and Impairs Mitochondrial Function. <i>Journal of Molecular Biology</i> , 2019, 431, 2674-2686.	4.2	69
23	Role of autophagy in the regulation of adipose tissue biology. <i>Cell Cycle</i> , 2019, 18, 1435-1445.	2.6	19
24	Autophagy-induced senescence is regulated by p38 signaling. <i>Cell Death and Disease</i> , 2019, 10, 376.	6.3	56
25	L amino acid transporter structure and molecular bases for the asymmetry of substrate interaction. <i>Nature Communications</i> , 2019, 10, 1807.	12.8	57
26	Deficient Endoplasmic Reticulum-Mitochondrial Phosphatidylserine Transfer Causes Liver Disease. <i>Cell</i> , 2019, 177, 881-895.e17.	28.9	209
27	Regulation of death receptor signaling by the autophagy protein TP53 INP2. <i>EMBO Journal</i> , 2019, 38, .	7.8	24
28	Adipose tissue mitochondrial dysfunction in human obesity is linked to a specific DNA methylation signature in adipose-derived stem cells. <i>International Journal of Obesity</i> , 2019, 43, 1256-1268.	3.4	47
29	Epigenetic loss of the endoplasmic reticulum-associated degradation inhibitor SVIP induces cancer cell metabolic reprogramming. <i>JCI Insight</i> , 2019, 4, .	5.0	14
30	The sensing of mitochondrial DAMPs by non-immune cells. <i>Cell Stress</i> , 2019, 3, 195-207.	3.2	70
31	Mitochondrial dynamics and metabolic homeostasis. <i>Current Opinion in Physiology</i> , 2018, 3, 34-40.	1.8	27
32	Cooperation of Antiporter LAT2/CD98hc with Uniporter TAT1 for Renal Reabsorption of Neutral Amino Acids. <i>Journal of the American Society of Nephrology: JASN</i> , 2018, 29, 1624-1635.	6.1	25
33	Mitochondrial DNA and TLR9 drive muscle inflammation upon Opa1 deficiency. <i>EMBO Journal</i> , 2018, 37, .	7.8	139
34	Identification of New Activators of Mitochondrial Fusion Reveals a Link between Mitochondrial Morphology and Pyrimidine Metabolism. <i>Cell Chemical Biology</i> , 2018, 25, 268-278.e4.	5.2	84
35	TP53INP2 regulates adiposity by activating $\beta$ -catenin through autophagy-dependent sequestration of GSK3 $\beta$ . <i>Nature Cell Biology</i> , 2018, 20, 443-454.	10.3	47
36	Mitochondrial Dynamics: A Journey from Mitochondrial Morphology to Mitochondrial Function and Quality. , 2018, , 19-31.		1

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37	Mutations in L-type amino acid transporter-2 support SLC7A8 as a novel gene involved in age-related hearing loss. <i>ELife</i> , 2018, 7, .	6.0	38
38	Mitochondrial Dynamics: Coupling Mitochondrial Fitness with Healthy Aging. <i>Trends in Molecular Medicine</i> , 2017, 23, 201-215.	6.7	223
39	Mitochondrial Dynamics Mediated by Mitofusin 1 Is Required for POMC Neuron Glucose-Sensing and Insulin Release Control. <i>Cell Metabolism</i> , 2017, 25, 1390-1399.e6.	16.2	106
40	Mfn2 is critical for brown adipose tissue thermogenic function. <i>EMBO Journal</i> , 2017, 36, 1543-1558.	7.8	193
41	Induction of oxidative metabolism by the p38 $\beta$ /MK2 pathway. <i>Scientific Reports</i> , 2017, 7, 11367.	3.3	23
42	FUNDC1. <i>Circulation</i> , 2017, 136, 2267-2270.	1.6	9
43	Fission for reprogramming. <i>Cell Cycle</i> , 2017, 16, 159-160.	2.6	1
44	Mfn2 deficiency links age-related sarcopenia and impaired autophagy to activation of an adaptive mitophagy pathway. <i>EMBO Journal</i> , 2016, 35, 1677-1693.	7.8	275
45	Neuregulin improves response to glucose tolerance test in control and diabetic rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2016, 310, E440-E451.	3.5	19
46	Amino Acid Transport Associated to Cluster of Differentiation 98 Heavy Chain (CD98hc) Is at the Cross-road of Oxidative Stress and Amino Acid Availability. <i>Journal of Biological Chemistry</i> , 2016, 291, 9700-9711.	3.4	50
47	Mfn1 Deficiency in the Liver Protects Against Diet-Induced Insulin Resistance and Enhances the Hypoglycemic Effect of Metformin. <i>Diabetes</i> , 2016, 65, 3552-3560.	0.6	66
48	Critical reappraisal confirms that Mitofusin 2 is an endoplasmic reticulum-mitochondria tether. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 11249-11254.	7.1	395
49	Role of Mitochondrial Complex IV in Age-Dependent Obesity. <i>Cell Reports</i> , 2016, 16, 2991-3002.	6.4	65
50	Mitofusin 2 as a Driver That Controls Energy Metabolism and Insulin Signaling. <i>Antioxidants and Redox Signaling</i> , 2015, 22, 1020-1031.	5.4	69
51	Analysis of Mitochondrial Morphology and Function Under Conditions of Mitofusin 2 Deficiency. <i>Methods in Molecular Biology</i> , 2015, 1265, 307-320.	0.9	6
52	Structural bases for the interaction and stabilization of the human amino acid transporter LAT2 with its ancillary protein 4F2hc. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 2966-2971.	7.1	84
53	<sup>13</sup> C metabolic flux analysis shows that resistin impairs the metabolic response to insulin in L6E9 myotubes. <i>BMC Systems Biology</i> , 2014, 8, 109.	3.0	6
54	Mfn2 downregulation in excitotoxicity causes mitochondrial dysfunction and delayed neuronal death. <i>EMBO Journal</i> , 2014, 33, 2388-2407.	7.8	84

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55	A new non-canonical pathway of $G_{1q}$ protein regulating mitochondrial dynamics and bioenergetics. Cellular Signalling, 2014, 26, 1135-1146.	3.6	28
56	Autophagy-regulating TP53INP2 mediates muscle wasting and is repressed in diabetes. Journal of Clinical Investigation, 2014, 124, 1914-1927.	8.2	72
57	Mfn2 modulates the UPR and mitochondrial function via repression of PERK. EMBO Journal, 2013, 32, 2348-2361.	7.8	340
58	Mitofusin 2 in POMC Neurons Connects ER Stress with Leptin Resistance and Energy Imbalance. Cell, 2013, 155, 172-187.	28.9	429
59	Endoplasmic Reticulum and the Unfolded Protein Response. International Review of Cell and Molecular Biology, 2013, 301, 215-290.	3.2	440
60	A form of mitofusin 2 (Mfn2) lacking the transmembrane domains and the COOH-terminal end stimulates metabolism in muscle and liver cells. American Journal of Physiology - Endocrinology and Metabolism, 2013, 305, E1208-E1221.	3.5	25
61	Mitochondrial dysfunction in insulin resistance: differential contributions of chronic insulin and saturated fatty acid exposure in muscle cells. Bioscience Reports, 2012, 32, 465-478.	2.4	44
62	DOR undergoes nucleo-cytoplasmic shuttling, which involves passage through the nucleolus. FEBS Letters, 2012, 586, 3179-3186.	2.8	22
63	Mitofusin 2 (Mfn2) links mitochondrial and endoplasmic reticulum function with insulin signaling and is essential for normal glucose homeostasis. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5523-5528.	7.1	544
64	DOR/Tp53inp2 and Tp53inp1 Constitute a Metazoan Gene Family Encoding Dual Regulators of Autophagy and Transcription. PLoS ONE, 2012, 7, e34034.	2.5	51
65	Increased ER-mitochondrial coupling promotes mitochondrial respiration and bioenergetics during early phases of ER stress. Journal of Cell Science, 2011, 124, 2143-2152.	2.0	483
66	Molecular basis of substrate-induced permeation by an amino acid antiporter. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 3935-3940.	7.1	139
67	Role of diabetes- and obesity-related protein in the regulation of osteoblast differentiation. American Journal of Physiology - Endocrinology and Metabolism, 2011, 301, E40-E48.	3.5	11
68	dDOR Is an EcR Coactivator that Forms a Feed-Forward Loop Connecting Insulin and Ecdysone Signaling. Current Biology, 2010, 20, 1799-1808.	3.9	75
69	The nuclear cofactor DOR regulates autophagy in mammalian and <i>Drosophila</i> cells. EMBO Reports, 2010, 11, 37-44.	4.5	68
70	Subjects With Early-Onset Type 2 Diabetes Show Defective Activation of the Skeletal Muscle PGC-1 $\alpha$ /Mitofusin-2 Regulatory Pathway in Response to Physical Activity. Diabetes Care, 2010, 33, 645-651.	8.6	168
71	Mitochondrial fusion proteins: Dual regulators of morphology and metabolism. Seminars in Cell and Developmental Biology, 2010, 21, 566-574.	5.0	165
72	Role of mitochondrial dynamics proteins in the pathophysiology of obesity and type 2 diabetes. International Journal of Biochemistry and Cell Biology, 2009, 41, 1846-1854.	2.8	179

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73	Mitochondrial Dynamics in Mammalian Health and Disease. <i>Physiological Reviews</i> , 2009, 89, 799-845.	28.8	794
74	Neuregulins Increase Mitochondrial Oxidative Capacity and Insulin Sensitivity in Skeletal Muscle Cells. <i>Diabetes</i> , 2007, 56, 2185-2193.	0.6	45
75	Functional and Structural Characterization of the First Prokaryotic Member of the L-Amino Acid Transporter (LAT) Family. <i>Journal of Biological Chemistry</i> , 2007, 282, 13270-13281.	3.4	38
76	The Structure of Human 4F2hc Ectodomain Provides a Model for Homodimerization and Electrostatic Interaction with Plasma Membrane. <i>Journal of Biological Chemistry</i> , 2007, 282, 31444-31452.	3.4	101
77	Identification of a Novel Modulator of Thyroid Hormone Receptor-Mediated Action. <i>PLoS ONE</i> , 2007, 2, e1183.	2.5	42
78	The Structural and Functional Units of Heteromeric Amino Acid Transporters. <i>Journal of Biological Chemistry</i> , 2006, 281, 26552-26561.	3.4	43
79	Evidence for a Mitochondrial Regulatory Pathway Defined by Peroxisome Proliferator-Activated Receptor- $\alpha$ Coactivator-1 $\alpha$ , Estrogen-Related Receptor- $\alpha$ , and Mitofusin 2. <i>Diabetes</i> , 2006, 55, 1783-1791.	0.6	320
80	Expression of Mfn2, the Charcot-Marie-Tooth Neuropathy Type 2A Gene, in Human Skeletal Muscle: Effects of Type 2 Diabetes, Obesity, Weight Loss, and the Regulatory Role of Tumor Necrosis Factor $\alpha$ and Interleukin-6. <i>Diabetes</i> , 2005, 54, 2685-2693.	0.6	334
81	Identification of LAT4, a Novel Amino Acid Transporter with System L Activity. <i>Journal of Biological Chemistry</i> , 2005, 280, 12002-12011.	3.4	216
82	The Charcot-Marie-Tooth type 2A gene product, Mfn2, up-regulates fuel oxidation through expression of OXPHOS system. <i>Human Molecular Genetics</i> , 2005, 14, 1405-1415.	2.9	397
83	Membrane Topology of System Xc- Light Subunit Reveals a Re-entrant Loop with Substrate-restricted Accessibility. <i>Journal of Biological Chemistry</i> , 2004, 279, 31228-31236.	3.4	78
84	Mitofusin-2 Determines Mitochondrial Network Architecture and Mitochondrial Metabolism. <i>Journal of Biological Chemistry</i> , 2003, 278, 17190-17197.	3.4	740
85	Slc7a9-deficient mice develop cystinuria non-I and cystine urolithiasis. <i>Human Molecular Genetics</i> , 2003, 12, 2097-2108.	2.9	74
86	The light subunit of system bo,+ is fully functional in the absence of the heavy subunit. <i>EMBO Journal</i> , 2002, 21, 4906-4914.	7.8	93
87	Identification of a Membrane Protein, LAT-2, That Co-expresses with 4F2 Heavy Chain, an L-type Amino Acid Transport Activity with Broad Specificity for Small and Large Zwitterionic Amino Acids. <i>Journal of Biological Chemistry</i> , 1999, 274, 19738-19744.	3.4	356
88	Non-type I cystinuria caused by mutations in SLC7A9, encoding a subunit (bo,+AT) of rBAT. <i>Nature Genetics</i> , 1999, 23, 52-57.	21.4	280
89	Identification of SLC7A7, encoding $\gamma$ +LAT-1, as the lysinuric protein intolerance gene. <i>Nature Genetics</i> , 1999, 21, 293-296.	21.4	286
90	Identification and Characterization of a Membrane Protein ( $\gamma$ +L Amino Acid Transporter-1) That Associates with 4F2hc to Encode the Amino Acid Transport Activity $\gamma$ +L. <i>Journal of Biological Chemistry</i> , 1998, 273, 32437-32445.	3.4	304

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91	The amino acid transport system y <sup>+</sup> L/4F2hc is a heteromultimeric complex. FASEB Journal, 1998, 12, 1319-1329.	0.5	87
92	Expression and Insulin-regulated Distribution of Caveolin in Skeletal Muscle. Journal of Biological Chemistry, 1996, 271, 8133-8139.	3.4	55
93	Cystinuria caused by mutations in rBAT, a gene involved in the transport of cystine. Nature Genetics, 1994, 6, 420-425.	21.4	366