

# Vincenzo Zara

## List of Publications by Year in descending order

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Version: 2024-02-01

77  
papers

2,830  
citations

147566

31  
h-index

189595

50  
g-index

79  
all docs

79  
docs citations

79  
times ranked

3740  
citing authors

#	ARTICLE	IF	CITATIONS
1	The role of mitochondria in energy production for human sperm motility. <i>Journal of Developmental and Physical Disabilities</i> , 2012, 35, 109-124.	3.6	301
2	Modulation of hepatic steatosis by dietary fatty acids. <i>World Journal of Gastroenterology</i> , 2014, 20, 1746.	1.4	155
3	Antioxidant dietary approach in treatment of fatty liver: New insights and updates. <i>World Journal of Gastroenterology</i> , 2017, 23, 4146.	1.4	136
4	Bioenergetics of Mammalian Sperm Capacitation. <i>BioMed Research International</i> , 2014, 2014, 1-8.	0.9	113
5	The mitochondrial dicarboxylate carrier is essential for the growth of <i>Saccharomyces cerevisiae</i> on ethanol or acetate as the sole carbon source. <i>Molecular Microbiology</i> , 1999, 31, 569-577.	1.2	88
6	Biogenesis of the yeast cytochrome bc1 complex. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2009, 1793, 89-96.	1.9	81
7	Oxidative Stress Negatively Affects Human Sperm Mitochondrial Respiration. <i>Urology</i> , 2013, 82, 78-83.	0.5	78
8	A Krill Oil Supplemented Diet Suppresses Hepatic Steatosis in High-Fat Fed Rats. <i>PLoS ONE</i> , 2012, 7, e38797.	1.1	75
9	Metabolic reprogramming in breast cancer results in distinct mitochondrial bioenergetics between luminal and basal subtypes. <i>FEBS Journal</i> , 2019, 286, 688-709.	2.2	69
10	Identification and characterization of cytochrome <i>bc<sub>1</sub></i> subcomplexes in mitochondria from yeast with single and double deletions of genes encoding cytochrome <i>bc<sub>1</sub></i> subunits. <i>FEBS Journal</i> , 2007, 274, 4526-4539.	2.2	63
11	Oxygen uptake by mitochondria in demembranated human spermatozoa: a reliable tool for the evaluation of sperm respiratory efficiency. <i>Journal of Developmental and Physical Disabilities</i> , 2008, 31, 337-345.	3.6	62
12	Mitochondrial Respiratory Efficiency is Positively Correlated With Human Sperm Motility. <i>Urology</i> , 2012, 79, 809-814.	0.5	61
13	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
14	Evidence that the assembly of the yeast cytochrome <i>bc<sub>1</sub></i> complex involves the formation of a large core structure in the inner mitochondrial membrane. <i>FEBS Journal</i> , 2009, 276, 1900-1914.	2.2	56
15	Biogenesis of mitochondrial carrier proteins: Molecular mechanisms of import into mitochondria. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2013, 1833, 494-502.	1.9	56
16	Targeting and assembly of the oxoglutarate carrier: general principles for biogenesis of carrier proteins of the mitochondrial inner membrane. <i>Biochemical Journal</i> , 1998, 333, 151-158.	1.7	55
17	Mitochondrial carrier protein biogenesis: role of the chaperones Hsc70 and Hsp90. <i>Biochemical Journal</i> , 2009, 419, 369-375.	1.7	55
18	Sperm selection in assisted reproduction: A review of established methods and cutting-edge possibilities. <i>Biotechnology Advances</i> , 2020, 40, 107498.	6.0	52

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19	Evaluation of mitochondrial respiratory efficiency during in vitro capacitation of human spermatozoa. <i>Journal of Developmental and Physical Disabilities</i> , 2011, 34, 247-255.	3.6	47
20	Dietary fatty acids influence sperm quality and function. <i>Andrology</i> , 2017, 5, 423-430.	1.9	46
21	Further insights into the assembly of the yeast cytochrome <i>c</i> <sub>1</sub> complex based on analysis of single and double deletion mutants lacking supernumerary subunits and cytochrome <i>c</i> . <i>FEBS Journal</i> , 2004, 271, 1209-1218.	0.2	44
22	Olive Oil Increases the Hepatic Triacylglycerol Content in Mice by a Distinct Influence on the Synthesis and Oxidation of Fatty Acids. <i>Bioscience, Biotechnology and Biochemistry</i> , 2008, 72, 62-69.	0.6	44
23	Differential effects of high-carbohydrate and high-fat diets on hepatic lipogenesis in rats. <i>European Journal of Nutrition</i> , 2014, 53, 1103-1114.	1.8	43
24	A krill oil supplemented diet reduces the activities of the mitochondrial tricarboxylate carrier and of the cytosolic lipogenic enzymes in rats. <i>Journal of Animal Physiology and Animal Nutrition</i> , 2012, 96, 295-306.	1.0	42
25	Bioenergetics profile of CD4 + T cells in relapsing remitting multiple sclerosis subjects. <i>Journal of Biotechnology</i> , 2015, 202, 31-39.	1.9	41
26	Effect of starvation on the activity of the mitochondrial tricarboxylate carrier. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1995, 1239, 33-38.	1.4	39
27	Modulation of the Respiratory Supercomplexes in Yeast. <i>Journal of Biological Chemistry</i> , 2014, 289, 6133-6141.	1.6	39
28	Single-cell-based evaluation of sperm progressive motility via fluorescent assessment of mitochondria membrane potential. <i>Scientific Reports</i> , 2017, 7, 17931.	1.6	39
29	Comparative Proteomic Analysis of Proteins Involved in Bioenergetics Pathways Associated with Human Sperm Motility. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3000.	1.8	39
30	Diet and Male Fertility: The Impact of Nutrients and Antioxidants on Sperm Energetic Metabolism. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2542.	1.8	39
31	Biogenesis of the mitochondrial phosphate carrier. <i>FEBS Journal</i> , 1991, 198, 405-410.	0.2	33
32	Biogenesis of Rat Mitochondrial Citrate Carrier (CIC): The N-terminal Presequence Facilitates the Solubility of the Preprotein but does not act as a Targeting Signal. <i>Journal of Molecular Biology</i> , 2003, 325, 399-408.	2.0	31
33	Covariance of tricarboxylate carrier activity and lipogenesis in liver of polyunsaturated fatty acid (n-6) fed rats. <i>FEBS Journal</i> , 2001, 268, 5734-5739.	0.2	30
34	Conjugated linoleic acid and hepatic lipogenesis in mouse: role of the mitochondrial citrate carrier. <i>Journal of Lipid Research</i> , 2006, 47, 1994-2003.	2.0	30
35	Dietary Combination of Conjugated Linoleic Acid (CLA) and Pine Nut Oil Prevents CLA-Induced Fatty Liver in Mice. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 8148-8158.	2.4	29
36	Herbicides glyphosate and glufosinate ammonium negatively affect human sperm mitochondria respiration efficiency. <i>Reproductive Toxicology</i> , 2021, 99, 48-55.	1.3	28

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37	Purification and Characterization of the Tricarboxylate Carrier from Eel Liver Mitochondria. <i>Biochemical and Biophysical Research Communications</i> , 1996, 223, 508-513.	1.0	27
38	Can a marine pest reduce the nutritional value of Mediterranean fish flesh?. <i>Marine Biology</i> , 2014, 161, 1275-1283.	0.7	27
39	Krill Oil Ameliorates Mitochondrial Dysfunctions in Rats Treated with High-Fat Diet. <i>BioMed Research International</i> , 2015, 2015, 1-11.	0.9	25
40	Dietary Fat and Hepatic Lipogenesis: Mitochondrial Citrate Carrier as a Sensor of Metabolic Changes1. <i>Advances in Nutrition</i> , 2014, 5, 217-225.	2.9	24
41	Biogenesis of Eel Liver Citrate Carrier (CIC): Negative Charges Can Substitute for Positive Charges in the Presequence. <i>Journal of Molecular Biology</i> , 2007, 365, 958-967.	2.0	23
42	Characterization of pore-forming activity in liver mitochondria from <i>Anguilla anguilla</i> . Two porins in mitochondria?. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1991, 1061, 279-286.	1.4	22
43	The Rieske Iron-Sulfur Protein: Import and Assembly into the Cytochrome Complex of Yeast Mitochondria. <i>Bioinorganic Chemistry and Applications</i> , 2011, 2011, 1-9.	1.8	22
44	Metabolites from invasive pests inhibit mitochondrial complex II: A potential strategy for the treatment of human ovarian carcinoma?. <i>Biochemical and Biophysical Research Communications</i> , 2016, 473, 1133-1138.	1.0	22
45	Varicocele Negatively Affects Sperm Mitochondrial Respiration. <i>Urology</i> , 2015, 86, 735-739.	0.5	21
46	HS-SPME-GC-MS metabolomics approach for sperm quality evaluation by semen volatile organic compounds (VOCs) analysis. <i>Biomedical Physics and Engineering Express</i> , 2018, 5, 015006.	0.6	21
47	Biogenesis of the dicarboxylate carrier (DIC): translocation across the mitochondrial outer membrane and subsequent release from the TOM channel are membrane potential-independent 1 Edited by M. Yaniv. <i>Journal of Molecular Biology</i> , 2001, 310, 965-971.	2.0	20
48	The mitochondrial tricarboxylate carrier of silver eel: dimeric structure and cytosolic exposure of both N- and C-termini. <i>The Protein Journal</i> , 2002, 21, 515-521.	1.1	20
49	Modulation of Human Sperm Mitochondrial Respiration Efficiency by Plant Polyphenols. <i>Antioxidants</i> , 2021, 10, 217.	2.2	19
50	The dimerization of the yeast cytochrome bc1 complex is an early event and is independent of Rip1. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015, 1853, 987-995.	1.9	18
51	Inhibition and labelling of the mitochondrial 2-oxoglutarate carrier by eosin-5-maleimide. <i>FEBS Letters</i> , 1988, 236, 493-496.	1.3	17
52	Metabolic response to glatiramer acetate therapy in multiple sclerosis patients. <i>BBA Clinical</i> , 2016, 6, 131-137.	4.1	17
53	<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
54	Bcs1p can rescue a large and productive cytochrome bc1 complex assembly intermediate in the inner membrane of yeast mitochondria. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2011, 1813, 91-101.	1.9	15

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55	Import of rat mitochondrial citrate carrier (CIC) at increasing salt concentrations promotes presequence binding to import receptor Tom20 and inhibits membrane translocation. <i>Journal of Cell Science</i> , 2005, 118, 3985-3995.	1.2	13
56	Crosstalk between mitochondrial metabolism and oxidoreductive homeostasis: a new perspective for understanding the effects of bioactive dietary compounds. <i>Nutrition Research Reviews</i> , 2020, 33, 90-101.	2.1	13
57	Multiple roles played by the mitochondrial citrate carrier in cellular metabolism and physiology. <i>Cellular and Molecular Life Sciences</i> , 2022, 79, .	2.4	13
58	Inhibition of the mitochondrial tricarboxylate carrier by arginine-specific reagents. <i>FEBS Letters</i> , 1986, 205, 282-286.	1.3	12
59	Biogenesis of yeast dicarboxylate carrier: the carrier signature facilitates translocation across the mitochondrial outer membrane. <i>Journal of Cell Science</i> , 2007, 120, 4099-4106.	1.2	12
60	Obesity and Male Infertility: Role of Fatty Acids in the Modulation of Sperm Energetic Metabolism. <i>European Journal of Lipid Science and Technology</i> , 2018, 120, 1700451.	1.0	10
61	<i>Prunus Mahaleb</i> Fruit Extract Prevents Chemically Induced Colitis and Enhances Mitochondrial Oxidative Metabolism via the Activation of the Nrf2 Pathway. <i>Molecular Nutrition and Food Research</i> , 2019, 63, e1900350.	1.5	10
62	Immunological characterization of the mitochondrial 2-oxoglutarate carrier from liver and heart. <i>FEBS Letters</i> , 1990, 263, 295-298.	1.3	9
63	The Mitochondrial Tricarboxylate Carrier: Unexpected Increased Activity in Starved Silver Eels. <i>Biochemical and Biophysical Research Communications</i> , 2000, 276, 893-898.	1.0	9
64	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
65	Mitochondrial Carriers and Substrates Transport Network: A Lesson from <i>Saccharomyces cerevisiae</i> . <i>International Journal of Molecular Sciences</i> , 2021, 22, 8496.	1.8	9
66	Centrifugation Force and Time Alter CASA Parameters and Oxidative Status of Cryopreserved Stallion Sperm. <i>Biology</i> , 2020, 9, 22.	1.3	7
67	Mimivirus-Encoded Nucleotide Translocator VMC1 Targets the Mitochondrial Inner Membrane. <i>Journal of Molecular Biology</i> , 2018, 430, 5233-5245.	2.0	6
68	The Mitochondrial Tricarboxylate Carrier of Silver Eel: Chemical Modification by Sulfhydryl Reagents. <i>BMB Reports</i> , 2004, 37, 515-521.	1.1	6
69	The future challenges of scientific and technical higher education. <i>Tuning Journal for Higher Education</i> , 2021, 8, 85-117.	0.2	5
70	Effect of anthracycline antibiotics on the reconstituted mitochondrial tricarboxylate carrier. <i>Biochemical and Biophysical Research Communications</i> , 1989, 164, 1281-1287.	1.0	4
71	Physical Activity and Male Reproductive Function: A New Role for Gamete Mitochondria. <i>Exercise and Sport Sciences Reviews</i> , 2021, 49, 99-106.	1.6	4
72	Italian university rectors for health and environment: the U4ALL initiative. <i>Lancet, The</i> , 2019, 394, 1319.	6.3	1

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73	Partial purification and reconstitution of the tricarboxylate carrier from eel liver mitochondria. IUBMB Life, 1996, 39, 369-375.	1.5	0
74	Citrate carrier and lipogenic enzyme activities in lead intrate-induced proliferative and apoptotic phase in rat liver. IUBMB Life, 1999, 47, 607-614.	1.5	0
75	Seminal VOCs Analysis Investigating Sperm Quality Declineâ€™New Studies to Improve Male Fertility Contrasting Population Ageing. Lecture Notes in Electrical Engineering, 2019, , 501-508.	0.3	0
76	The N-terminal extension of the eel mitochondrial citrate carrier (CIC) acts as a charged intramolecular chaperone. , 0, 2007, .		0
77	A protein structure prediction service in the ProGenGrid system. Studies in Health Technology and Informatics, 2008, 138, 135-46.	0.2	0