Enzo Nisoli

List of Publications by Year
in descending order

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132 papers	9,200 citations	70961 41 h-index	39575 94 g-index
138 all docs	138 docs citations	138 times ranked	10956 citing authors

#	Article	IF	Citations
1	Mitochondrial Biogenesis in Mammals: The Role of Endogenous Nitric Oxide. Science, 2003, 299, 896-899.	6.0	1,110
2	Calorie Restriction Promotes Mitochondrial Biogenesis by Inducing the Expression of eNOS. Science, 2005, 310, 314-317.	6.0	1,009
3	The endogenous cannabinoid system affects energy balance via central orexigenic drive and peripheral lipogenesis. Journal of Clinical Investigation, 2003, 112, 423-431.	3.9	963
4	Branched-Chain Amino Acid Supplementation Promotes Survival and Supports Cardiac and Skeletal Muscle Mitochondrial Biogenesis in Middle-Aged Mice. Cell Metabolism, 2010, 12, 362-372.	7.2	467
5	Mitochondrial biogenesis by NO yields functionally active mitochondria in mammals. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 16507-16512.	3.3	447
6	TNF-Â downregulates eNOS expression and mitochondrial biogenesis in fat and muscle of obese rodents. Journal of Clinical Investigation, 2006, 116, 2791-2798.	3.9	265
7	Nitric oxide and mitochondrial biogenesis. Journal of Cell Science, 2006, 119, 2855-2862.	1.2	243
8	Defective Mitochondrial Biogenesis. Circulation Research, 2007, 100, 795-806.	2.0	219
9	Insulin resistance in obesity: an overview of fundamental alterations. Eating and Weight Disorders, 2018, 23, 149-157.	1.2	218
10	CB1 Signaling in Forebrain and Sympathetic Neurons Is a Key Determinant of Endocannabinoid Actions on Energy Balance. Cell Metabolism, 2010, 11, 273-285.	7.2	190
11	Branched-chain amino acids, mitochondrial biogenesis, and healthspan: an evolutionary perspective. Aging, 2011, 3, 464-478.	1.4	166
12	Exercise Training Induces Mitochondrial Biogenesis and Glucose Uptake in Subcutaneous Adipose Tissue Through eNOS-Dependent Mechanisms. Diabetes, 2014, 63, 2800-2811.	0.3	139
13	Reversible transdifferentiation of secretory epithelial cells into adipocytes in the mammary gland. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 16801-16806.	3.3	135
14	Cannabinoid Receptor Stimulation Impairs Mitochondrial Biogenesis in Mouse White Adipose Tissue, Muscle, and Liver. Diabetes, 2010, 59, 2826-2836.	0.3	133
15	Cannabinoid Type 1 Receptor Blockade Promotes Mitochondrial Biogenesis Through Endothelial Nitric Oxide Synthase Expression in White Adipocytes. Diabetes, 2008, 57, 2028-2036.	0.3	131
16	Adipocyte cannabinoid receptor CB1 regulates energy homeostasis and alternatively activated macrophages. Journal of Clinical Investigation, 2017, 127, 4148-4162.	3.9	128
17	Mitochondrial biogenesis as a cellular signaling framework. Biochemical Pharmacology, 2004, 67, 1-15.	2.0	119
18	Tumor necrosis factor alpha mediates apoptosis of brown adipocytes and defective brown adipocyte function in obesity. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 8033-8038.	3.3	116

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19	Nitric oxide and mitochondrial biogenesis: A key to long-term regulation of cellular metabolism. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2005, 142, 102-110.	0.8	113
20	Branchedâ€chain amino acids differently modulate catabolic and anabolic states in mammals: a pharmacological point of view. British Journal of Pharmacology, 2017, 174, 1366-1377.	2.7	107
21	Glycogen synthase kinaseâ€3 inhibition reduces ischemic cerebral damage, restores impaired mitochondrial biogenesis and prevents ROS production. Journal of Neurochemistry, 2011, 116, 1148-1159.	2.1	105
22	Induction of fatty acid translocase/CD36, peroxisome proliferator-activated receptor-gamma2, leptin, uncoupling proteins 2 and 3, and tumor necrosis factor-alpha gene expression in human subcutaneous fat by lipid infusion. Diabetes, 2000, 49, 319-324.	0.3	97
23	Effects of nitric oxide on proliferation and differentiation of rat brown adipocytes in primary cultures. British Journal of Pharmacology, 1998, 125, 888-894.	2.7	96
24	Exercise training boosts eNOS-dependent mitochondrial biogenesis in mouse heart: role in adaptation of glucose metabolism. American Journal of Physiology - Endocrinology and Metabolism, 2014, 306, E519-E528.	1.8	96
25	Evidence for a functional nitric oxide synthase system in brown adipocyte nucleus. FEBS Letters, 2002, 514, 135-140.	1.3	93
26	An assessment of the safety and efficacy of sibutramine, an anti-obesity drug with a novel mechanism of action. Obesity Reviews, 2000, 1, 127-139.	3.1	92
27	Leptin Increases Axonal Growth Cone Size in Developing Mouse Cortical Neurons by Convergent Signals Inactivating Glycogen Synthase Kinase-3Î². Journal of Biological Chemistry, 2006, 281, 12950-12958.	1.6	86
28	Leptin Is Induced in the Ischemic Cerebral Cortex and Exerts Neuroprotection Through NF-ÎºB/c-Relâ€“Dependent Transcription. Stroke, 2009, 40, 610-617.	1.0	83
29	Inducible Nitric Oxide Synthase in Rat Brown Adipocytes: Implications for Blood Flow to Brown Adipose Tissue*. Endocrinology, 1997, 138, 676-682.	1.4	81
30	Preferential Channeling of Energy Fuels Toward Fat Rather Than Muscle During High Free Fatty Acid Availability in Rats. Diabetes, 2001, 50, 601-608.	0.3	75
31	Regional-dependent Increase of Sympathetic Innervation in Rat White Adipose Tissue during Prolonged Fasting. Journal of Histochemistry and Cytochemistry, 2005, 53, 679-687.	1.3	73
32	Multiple symmetric lipomatosis may be the consequence of defective noradrenergic modulation of proliferation and differentiation of brown fat cells. Journal of Pathology, 2002, 198, 378-387.	2.1	68
33	Paracetamol: A Review of Guideline Recommendations. Journal of Clinical Medicine, 2021, 10, 3420.	1.0	68
34	Morphometric Changes Induced by Amino Acid Supplementation in Skeletal and Cardiac Muscles of Old Mice. American Journal of Cardiology, 2008, 101, S26-S34.	0.7	61
35	Repeated reserpine administration up-regulates the transduction mechanisms of D1 receptors without changing the density of [3H]SCH 23390 binding. Brain Research, 1989, 483, 117-122.	1.1	58
36	Role of sympathetic activity in controlling the expression of vascular endothelial growth factor in brown fat cells of lean and genetically obese rats. FEBS Letters, 1999, 442, 167-172.	1.3	55

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37	Changes in FAT/CD36, UCP2, UCP3 and GLUT4 gene expression during lipid infusion in rat skeletal and heart muscle. International Journal of Obesity, 2002, 26, 838-847.	1.6	51
38	Leptin-dependent STAT3 phosphorylation in postnatal mouse hypothalamus. Brain Research, 2008, 1215, 105-115.	1.1	51
39	Selective stimulation of somatostatin receptor subtypes: differential effects on Ras/MAP kinase pathway and cell proliferation in human neuroblastoma cells. FEBS Letters, 2000, 481, 271-276.	1.3	50
40	From mitochondria to healthy aging: The role of branched-chain amino acids treatment: MATeR a randomized study. Clinical Nutrition, 2020, 39, 2080-2091.	2.3	49
41	Tumor necrosis factor-Î± induces apoptosis in rat brown adipocytes. Cell Death and Differentiation, 1997, 4, 771-778.	5.0	44
42	A Benefit-Risk Assessment of Sibutramine in the Management of Obesity. Drug Safety, 2003, 26, 1027-1048.	1.4	44
43	Emerging aspects of pharmacotherapy for obesity and metabolic syndrome. Pharmacological Research, 2004, 50, 453-469.	3.1	44
44	Amino acid supplements and metabolic health: a potential interplay between intestinal microbiota and systems control. Genes and Nutrition, 2017, 12, 27.	1.2	40
45	Repeated administration of (â^') sulpiride and SCH 23390 differentially up-regulate D-1 and D-2 dopamine receptor function in rat mesostriatal areas but not in cortical-limbic brain regions. European Journal of Pharmacology, 1987, 138, 45-51.	1.7	39
46	A specific amino acid formula prevents alcoholic liver disease in rodents. American Journal of Physiology - Renal Physiology, 2018, 314, G566-G582.	1.6	33
47	Targeting Multiple Mitochondrial Processes by a Metabolic Modulator Prevents Sarcopenia and Cognitive Decline in SAMP8 Mice. Frontiers in Pharmacology, 2020, 11, 1171.	1.6	31
48	Pharmacological characterization of D1 and D2 dopamine receptors in rat limbocortical areas. II. Dorsal hippocampus. Neuroscience Letters, 1988, 87, 253-258.	1.0	30
49	Amino Acids and Mitochondrial Biogenesis. American Journal of Cardiology, 2008, 101, S22-S25.	0.7	30
50	Creatine, L-Carnitine, andÏ‰3 Polyunsaturated Fatty Acid Supplementation from Healthy to Diseased Skeletal Muscle. BioMed Research International, 2014, 2014, 1-16.	0.9	30
51	Nitric oxide, interorganelle communication, and energy flow: a novel route to slow aging. Frontiers in Cell and Developmental Biology, 2015, 3, 6.	1.8	30
52	Essential amino acid formulations to prevent mitochondrial dysfunction and oxidative stress. Current Opinion in Clinical Nutrition and Metabolic Care, 2021, 24, 88-95.	1.3	30
53	Obesity and Higher Risk for Severe Complications of Covid-19: What to do when the two pandemics meet. Journal of Population Therapeutics and Clinical Pharmacology, 2020, 27, e31-e36.	1.9	29
54	Antibody responses to BNT162b2 mRNA vaccine: Infectionâ€naÃ¯ve individuals with abdominal obesity warrant attention. Obesity, 2022, 30, 606-613.	1.5	28

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55	A Special Amino-Acid Formula Tailored to Boosting Cell Respiration Prevents Mitochondrial Dysfunction and Oxidative Stress Caused by Doxorubicin in Mouse Cardiomyocytes. Nutrients, 2020, 12, 282.	1.7	27
56	Complete neural stem cell (NSC) neuronal differentiation requires a branched chain amino acids-induced persistent metabolic shift towards energy metabolism. Pharmacological Research, 2020, 158, 104863.	3.1	27
57	Bcl-2 and Bax are involved in the sympathetic protection of brown adipocytes from obesity-linked apoptosis. FEBS Letters, 1998, 431, 80-84.	1.3	26
58	Manipulation of Dietary Amino Acids Prevents and Reverses Obesity in Mice Through Multiple Mechanisms That Modulate Energy Homeostasis. Diabetes, 2020, 69, 2324-2339.	0.3	25
59	COVID-19 and fat embolism: a hypothesis to explain the severe clinical outcome in people with obesity. International Journal of Obesity, 2020, 44, 1800-1802.	1.6	25
60	Efficacy and tolerability of moclobemide in bulimia nervosa: a placebo-controlled trial. International Clinical Psychopharmacology, 2001, 16, 27-32.	0.9	24
61	Expression and distribution of heme oxygenase-1 and -2 in rat brown adipose tissue: the modulatory role of the noradrenergic system. FEBS Letters, 2000, 487, 171-175.	1.3	23
62	A Peculiar Formula of Essential Amino Acids Prevents Rosuvastatin Myopathy in Mice. Antioxidants and Redox Signaling, 2016, 25, 595-608.	2.5	23
63	Dietary supplementation with essential amino acids boosts the beneficial effects of rosuvastatin on mouse kidney. Amino Acids, 2014, 46, 2189-2203.	1.2	22
64	Supplementation with a selective amino acid formula ameliorates muscular dystrophy in mdx mice. Scientific Reports, 2018, 8, 14659.	1.6	22
65	Visceral fat inflammation and fat embolism are associated with lungâ€™s lipidic hyaline membranes in subjects with COVID-19. International Journal of Obesity, 2022, 46, 1009-1017.	1.6	22
66	Protective effects of noradrenaline against tumor necrosis factor-Î±-induced apoptosis in cultured rat brown adipocytes: role of nitric oxide-induced heat shock protein 70 expression. International Journal of Obesity, 2001, 25, 1421-1430.	1.6	21
67	Chronic Deficiency of Nitric Oxide Affects Hypoxia Inducible Factor-1Î± (HIF-1Î±) Stability and Migration in Human Endothelial Cells. PLoS ONE, 2011, 6, e29680.	1.1	21
68	11C-meta-hydroxyephedrine PET/CT imaging allows in vivo study of adaptive thermogenesis and white-to-brown fat conversion. Molecular Metabolism, 2013, 2, 153-160.	3.0	21
69	A critical reflection on the definition of metabolic syndrome. Pharmacological Research, 2006, 53, 449-456.	3.1	20
70	Non-invasive investigation of adipose tissue by time domain diffuse optical spectroscopy. Biomedical Optics Express, 2020, 11, 2779.	1.5	20
71	SR59230A blocks Î²3-adrenoceptor-linked modulation of uncoupling protein-1 and leptin in rat brown adipocytes. European Journal of Pharmacology, 1998, 352, 125-129.	1.7	19
72	Nerve growth factor, Î²3-adrenoceptor and uncoupling protein 1 expression in rat brown fat during postnatal development. Neuroscience Letters, 1998, 246, 5-8.	1.0	18

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73	Blockade of IGF2R improves muscle regeneration and ameliorates Duchenne muscular dystrophy. EMBO Molecular Medicine, 2020, 12, e11019.	3.3	18
74	Inducible Nitric Oxide Synthase in Rat Brown Adipocytes: Implications for Blood Flow to Brown Adipose Tissue. , 0, .		18
75	Pharmacological characterization of D1 and D2 dopamine receptors in rat limbocortical areas. I. Frontal cortex. Neuroscience Letters, 1988, 87, 247-252.	1.0	17
76	White adipocytes are less prone to apoptotic stimuli than brown adipocytes in rodent. Cell Death and Differentiation, 2006, 13, 2154-2156.	5.0	17
77	Therapeutic induction of energy metabolism reduces neural tissue damage and increases microglia activation in severe spinal cord injury. Pharmacological Research, 2022, 178, 106149.	3.1	17
78	Essential Amino Acid Supplementation Decreases Liver Damage Induced by Chronic Ethanol Consumption in Rats. International Journal of Immunopathology and Pharmacology, 2011, 24, 611-619.	1.0	16
79	Pharmacological properties of Î²3-adrenoceptors. Trends in Pharmacological Sciences, 1997, 18, 257-258.	4.0	15
80	Essential Amino Acids Improve Insulin Activation of Akt/mTOR Signaling in Soleus Muscle of Aged Rats. International Journal of Immunopathology and Pharmacology, 2010, 23, 81-89.	1.0	15
81	Muscle Uncoupling Protein 3 Expression Is Unchanged by Chronic Ephedrine/Caffeine Treatment: Results of a Double Blind, Randomised Clinical Trial in Morbidly Obese Females. PLoS ONE, 2014, 9, e98244.	1.1	14
82	Front-of-pack (FOP) labelling systems to improve the quality of nutrition information to prevent obesity: NutrInform Battery vs Nutri-Score. Eating and Weight Disorders, 2022, 27, 1575-1584.	1.2	14
83	Serum leptin levels are higher in females affected by frontotemporal lobar degeneration than Alzheimer's disease. Journal of Neurology, Neurosurgery and Psychiatry, 2007, 79, 712-715.	0.9	12
84	Childhood obesity, overweight and underweight: a study in primary schools in Milan. Eating and Weight Disorders, 2013, 18, 183-191.	1.2	12
85	Repeated administration of lisuride down-regulates dopamine D-2 receptor function in mesostriatal and in mesolimbocortical rat brain regions. European Journal of Pharmacology, 1990, 176, 85-90.	1.7	11
86	2015 Milan Declaration: A Call to Action on Obesity - an EASO Position Statement on the Occasion of the 2015 EXPO. Obesity Facts, 2016, 9, 296-298.	1.6	11
87	Pharmacological antagonism of lipoprivic feeding induced by sodium mercaptoacetate. European Journal of Pharmacology, 1995, 276, 285-289.	1.7	10
88	Role of Insulin and Free Fatty Acids in the Regulation of ob Gene Expression and Plasma Leptin in Normal Rats. Obesity, 2004, 12, 2062-2069.	4.0	10
89	Differential effect of acute reserpine administration on D-1 and D-2 dopaminergic receptor density and function in rat striatum. Neurochemistry International, 1989, 14, 61-64.	1.9	9
90	Catecholamine and serotonin depletion from rat spinal cord: Effects on morphine and footshock induced analgesia. Pharmacological Research, 1992, 25, 187-194.	3.1	9

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91	Rat Frontal Cortex Î²1-Adrenoceptors Are Activated by the Î²3-Adrenoceptor Agonists SR 58611A and SR 58878A but Not by BRL 37344 or ICI 215,001. Journal of Neurochemistry, 2002, 65, 1580-1587.	2.1	9
92	The hydrolipidic ratio inÂage-related maturation ofÂadipose tissues. Biomedicine and Pharmacotherapy, 2006, 60, 139-143.	2.5	9
93	SR 58611A: A novel thermogenic Î²-adrenoceptor agonist. European Journal of Pharmacology, 1994, 259, 181-186.	1.7	8
94	Leptin and nerve growth factor regulate adipose tissue. Nature Medicine, 1996, 2, 130-130.	15.2	8
95	Chronic nitric oxide deprivation induces an adaptive antioxidant status in human endothelial cells. Cellular Signalling, 2013, 25, 2290-2297.	1.7	8
96	COVID-19 and Hartnup disease: an affair of intestinal amino acid malabsorption. Eating and Weight Disorders, 2021, 26, 1647-1651.	1.2	8
97	Healthspan and Longevity in Mammals: A Family Game for Cellular Organelles?. Current Pharmaceutical Design, 2014, 20, 5663-5670.	0.9	8
98	Can endogenous gaseous messengers control mitochondrial biogenesis in mammalian cells?. Prostaglandins and Other Lipid Mediators, 2004, 73, 9-27.	1.0	7
99	Supplementation with Essential Amino Acids in Middle Age Maintains the Health of Rat Kidney. International Journal of Immunopathology and Pharmacology, 2010, 23, 523-533.	1.0	7
100	From simplicity towards complexity: the Italian multidimensional approach to obesity. Eating and Weight Disorders, 2014, 19, 387-394.	1.2	7
101	An amino acid-defined diet impairs tumour growth in mice by promoting endoplasmic reticulum stress and mTOR inhibition. Molecular Metabolism, 2022, 60, 101478.	3.0	7
102	Endocannabinoids and obesity development â€“ the adipose tissue. Drug Discovery Today Disease Mechanisms, 2010, 7, e199-e204.	0.8	6
103	Family lifestyle and childhood obesity in an urban city of Northern Italy. Eating and Weight Disorders, 2015, 20, 363-370.	1.2	6
104	Salbutamol antagonizes insulin- and sodium mercaptoacetate-induced but not 2-deoxy-d-glucose-induced hyperphagia. Pharmacology Biochemistry and Behavior, 1996, 54, 409-413.	1.3	5
105	The European Association for the Study of Obesity (EASO) Endorses the Milan Charter on Urban Obesity. Obesity Facts, 2021, 14, 163-168.	1.6	5
106	Hypocretins or hyporexins?. Nature Medicine, 1998, 4, 645-645.	15.2	4
107	New pharmacological tools for obesity. Journal of Endocrinological Investigation, 2002, 25, 905-914.	1.8	4
108	Letter to the editor. Clinical Therapeutics, 2004, 26, 801-802.	1.1	4

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109	Obesity: focus on ongoing multidisciplinary and comprehensive research. Eating and Weight Disorders, 2018, 23, 1-1.	1.2	4
110	Front-of-pack (FOP) labelling systems, nutrition education, and obesity prevention: nutri-score and nutrinform battery need more research. Eating and Weight Disorders, 2022, 27, 2265-2266.	1.2	4
111	An original amino acid formula favours in vitro corneal epithelial wound healing by promoting Fn1, ITGB1, and PGC-1Î± expression. Experimental Eye Research, 2022, 219, 109060.	1.2	4
112	Tolerance to hypoactivity and sensitization to hyperactivity after chronic treatment with a presynaptic dose of lisuride in rats. European Journal of Pharmacology, 1992, 216, 81-86.	1.7	3
113	Effects of Short and Prolonged Mild Intracellular Nitric Oxide Manipulations on Various Aspects of Insulin Secretion in INS-1E Î²-Cells. Experimental and Clinical Endocrinology and Diabetes, 2012, 120, 210-216.	0.6	3
114	Muscle weakness and nutrition in critical illness: matching nutrient supply and use. Lancet Respiratory Medicine,the, 2013, 1, 589-590.	5.2	3
115	Molecular and metabolic effects of extra-virgin olive oil on the cardiovascular gene signature in rodents. Nutrition, Metabolism and Cardiovascular Diseases, 2022, 32, 1571-1582.	1.1	3
116	Differential up-regulation of D-1 and D-2 dopamine receptor function in mesostriatal areas but not in cortical-limbic brain regions of rats chronically treated with (?)sulpiride and SCH 23390. Drug Development Research, 1987, 11, 243-249.	1.4	2
117	Increase of aldosterone secretion following acute haloperidol administration. International Clinical Psychopharmacology, 1996, 11, 67.	0.9	2
118	Reply to comment by Martï¿½n-Lï¿½zaro and Becerra-Fernï¿½ndez. Pharmacological Research, 2005, 51, 387-389.	3.1	2
119	Really different knockout strains in movement?. Journal of Physiology, 2008, 586, 913-913.	1.3	2
120	Nutrients and Muscle Disease. BioMed Research International, 2015, 2015, 1-2.	0.9	2
121	In Memory of Dexfenfluramine: R.I.P.. International Journal of Obesity, 1997, 21, 1193-1193.	1.6	1
122	In vivo depth heterogeneity of the abdomen assessed by broadband time-domain diffuse optical spectroscopy. , 2017, , .		1
123	Tolerance to hypoactivity and sensitization to hyperactivity following chronic treatment with Ã¡ presynaptic dose of lisuride in rats. Pharmacological Research, 1992, 25, 60.	3.1	0
124	Biochemical and functional identification of dopamine receptors in rat brown adipose tissue. Pharmacological Research, 1992, 25, 91-92.	3.1	0
125	Relationship Between Intelligence and Brain Structure. American Journal of Psychiatry, 1994, 151, 456-b-457.	4.0	0
126	Adaptive events. Nature, 1995, 374, 671-671.	13.7	0

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127	Terapia farmacologica dellâ€™obesitÃ. L Endocrinologo, 2005, 6, 57-62.	0.0	0
128	Nitric Oxide and Cell Metabolism Dysfunction in the Metabolic Syndrome. , 2005, , 305-318.		0
129	Special issue introduction: Drug discovery and pharmacotherapy of the metabolic syndrome. Pharmacological Research, 2006, 53, 447-448.	3.1	0
130	Response to Letter by Tsuda. Stroke, 2009, 40, .	1.0	0
131	Amino Acid Supplements and Diabetes. , 2013, , 83-95.		0
132	Multidistance time domain diffuse optical spectroscopy in the assessment of abdominal fat heterogeneity. , 2018, , .		0