

# Susanna Iossa

## List of Publications by Year in descending order

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83  
papers

2,478  
citations

185998

28  
h-index

223531

46  
g-index

83  
all docs

83  
docs citations

83  
times ranked

3512  
citing authors

#	ARTICLE	IF	CITATIONS
1	Skeletal muscle insulin resistance: role of mitochondria and other ROS sources. <i>Journal of Endocrinology</i> , 2017, 233, R15-R42.	1.2	202
2	Sweet but Bitter: Focus on Fructose Impact on Brain Function in Rodent Models. <i>Nutrients</i> , 2021, 13, 1.	1.7	155
3	Rescue of Fructose-Induced Metabolic Syndrome by Antibiotics or Faecal Transplantation in a Rat Model of Obesity. <i>PLoS ONE</i> , 2015, 10, e0134893.	1.1	135
4	Effect of high-fat feeding on metabolic efficiency and mitochondrial oxidative capacity in adult rats. <i>British Journal of Nutrition</i> , 2003, 90, 953-960.	1.2	117
5	Alterations in Hepatic Mitochondrial Compartment in a Model of Obesity and Insulin Resistance. <i>Obesity</i> , 2008, 16, 958-964.	1.5	104
6	Increased hepatic de novo lipogenesis and mitochondrial efficiency in a model of obesity induced by diets rich in fructose. <i>European Journal of Nutrition</i> , 2013, 52, 537-545.	1.8	98
7	Skeletal muscle oxidative capacity in rats fed high-fat diet. <i>International Journal of Obesity</i> , 2002, 26, 65-72.	1.6	80
8	Altered Skeletal Muscle Subsarcolemmal Mitochondrial Compartment During Catch-Up Fat After Caloric Restriction. <i>Diabetes</i> , 2006, 55, 2286-2293.	0.3	69
9	A Possible Link Between Skeletal Muscle Mitochondrial Efficiency and Age-Induced Insulin Resistance. <i>Diabetes</i> , 2004, 53, 2861-2866.	0.3	66
10	Fructose-Rich Diet Affects Mitochondrial DNA Damage and Repair in Rats. <i>Nutrients</i> , 2017, 9, 323.	1.7	63
11	Skeletal muscle subsarcolemmal mitochondrial dysfunction in high-fat fed rats exhibiting impaired glucose homeostasis. <i>International Journal of Obesity</i> , 2007, 31, 1596-1604.	1.6	61
12	Energy Intake and Utilization Vary During Development in Rats. <i>Journal of Nutrition</i> , 1999, 129, 1593-1596.	1.3	52
13	Fructose supplementation worsens the deleterious effects of short-term high-fat feeding on hepatic steatosis and lipid metabolism in adult rats. <i>Experimental Physiology</i> , 2014, 99, 1203-1213.	0.9	50
14	Short-Term Fructose Feeding Induces Inflammation and Oxidative Stress in the Hippocampus of Young and Adult Rats. <i>Molecular Neurobiology</i> , 2018, 55, 2869-2883.	1.9	50
15	Mitochondrial efficiency and insulin resistance. <i>Frontiers in Physiology</i> , 2014, 5, 512.	1.3	48
16	Adipose tissue remodeling in rats exhibiting fructose-induced obesity. <i>European Journal of Nutrition</i> , 2014, 53, 413-419.	1.8	46
17	Dietary fructose causes defective insulin signalling and ceramide accumulation in the liver that can be reversed by gut microbiota modulation. <i>Food and Nutrition Research</i> , 2017, 61, 1331657.	1.2	44
18	A possible link between hepatic mitochondrial dysfunction and diet-induced insulin resistance. <i>European Journal of Nutrition</i> , 2016, 55, 1-6.	1.8	43

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19	Fat Quality Influences the Obesogenic Effect of High Fat Diets. <i>Nutrients</i> , 2015, 7, 9475-9491.	1.7	40
20	Light mitochondria and cellular thermogenesis. <i>Biochemical and Biophysical Research Communications</i> , 1988, 151, 1241-1249.	1.0	39
21	Heterogeneous bioenergetic behaviour of subsarcolemmal and intermyofibrillar mitochondria in fed and fasted rats. <i>Cellular and Molecular Life Sciences</i> , 2006, 63, 358-366.	2.4	37
22	Regulation of skeletal muscle mitochondrial activity by thyroid hormones: focus on the $\alpha$ -triiodothyronine and the $\beta$ -3,5-diiodothyronine. <i>Frontiers in Physiology</i> , 2015, 6, 237.	1.3	36
23	Effect of long-term high-fat feeding on energy balance and liver oxidative activity in rats. <i>British Journal of Nutrition</i> , 2000, 84, 377-385.	1.2	35
24	Acetyl-L-Carnitine Supplementation Differently Influences Nutrient Partitioning, Serum Leptin Concentration and Skeletal Muscle Mitochondrial Respiration in Young and Old Rats. <i>Journal of Nutrition</i> , 2002, 132, 636-642.	1.3	35
25	Cold exposure differently influences mitochondrial energy efficiency in rat liver and skeletal muscle. <i>FEBS Letters</i> , 2005, 579, 1978-1982.	1.3	35
26	Increased skeletal muscle mitochondrial efficiency in rats with fructose-induced alteration in glucose tolerance. <i>British Journal of Nutrition</i> , 2013, 110, 1996-2003.	1.2	34
27	Fat balance and serum leptin concentrations in normal, hypothyroid, and hyperthyroid rats. <i>International Journal of Obesity</i> , 2001, 25, 417-425.	1.6	32
28	The effect of high-fat/high-fructose diet on skeletal muscle mitochondrial energetics in adult rats. <i>European Journal of Nutrition</i> , 2015, 54, 183-192.	1.8	29
29	Early Effects of a Low Fat, Fructose-Rich Diet on Liver Metabolism, Insulin Signaling, and Oxidative Stress in Young and Adult Rats. <i>Frontiers in Physiology</i> , 2018, 9, 411.	1.3	28
30	Skeletal Muscle Mitochondrial Energetic Efficiency and Aging. <i>International Journal of Molecular Sciences</i> , 2015, 16, 10674-10685.	1.8	24
31	<i>Bacillus megaterium</i> SF185 spores exert protective effects against oxidative stress in vivo and in vitro. <i>Scientific Reports</i> , 2019, 9, 12082.	1.6	24
32	The effect of thyroid state on respiratory activities of three rat liver mitochondrial fractions. <i>Molecular and Cellular Endocrinology</i> , 1989, 62, 41-46.	1.6	22
33	Effect of Initial Aging and High-Fat/High-Fructose Diet on Mitochondrial Bioenergetics and Oxidative Status in Rat Brain. <i>Molecular Neurobiology</i> , 2019, 56, 7651-7663.	1.9	22
34	Energy balance and liver respiratory activity in rats fed on an energy-dense diet. <i>British Journal of Nutrition</i> , 1997, 77, 99-105.	1.2	20
35	Differences in proton leak kinetics, but not in UCP3 protein content, in subsarcolemmal and intermyofibrillar skeletal muscle mitochondria from fed and fasted rats. <i>FEBS Letters</i> , 2001, 505, 53-56.	1.3	20
36	Brain Nrf2 pathway, autophagy, and synaptic function proteins are modulated by a short-term fructose feeding in young and adult rats. <i>Nutritional Neuroscience</i> , 2020, 23, 309-320.	1.5	19

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37	Steady state changes in mitochondrial electrical potential and proton gradient in perfused liver from rats fed a high fat diet. <i>Molecular and Cellular Biochemistry</i> , 1998, 178, 213-217.	1.4	18
38	Skeletal muscle mitochondrial efficiency and uncoupling protein 3 in overeating rats with increased thermogenesis. <i>Pflugers Archiv European Journal of Physiology</i> , 2002, 445, 431-436.	1.3	18
39	Relationship between membrane potential and respiration rate in isolated liver mitochondria from rats fed an energy dense diet. <i>Molecular and Cellular Biochemistry</i> , 1996, 158, 133-8.	1.4	17
40	Changes in the Hepatic Mitochondrial Respiratory System in the Transition from Weaning to Adulthood in Rats. <i>Archives of Biochemistry and Biophysics</i> , 1998, 352, 240-246.	1.4	17
41	Skeletal muscle mitochondrial oxidative capacity and uncoupling protein 3 are differently influenced by semistarvation and refeeding. <i>FEBS Letters</i> , 2003, 544, 138-142.	1.3	17
42	Relationship between the resting metabolic rate and hepatic metabolism in rats: effect of hyperthyroidism and fasting for 24 hours. <i>Journal of Endocrinology</i> , 1992, 135, 45-51.	1.2	16
43	Relationship between Resting Metabolism and Hepatic Metabolism: Effect of Hypothyroidism and 24 Hours Fasting. <i>Hormone Research</i> , 1992, 38, 154-159.	1.8	16
44	Stimulation of oxygen consumption following addition of lipid substrates in liver and skeletal muscle from rats fed a high-fat diet. <i>Metabolism: Clinical and Experimental</i> , 1999, 48, 1230-1235.	1.5	16
45	Acetyl-L-carnitine treatment stimulates oxygen consumption and biosynthetic function in perfused liver of young and old rats. <i>Cellular and Molecular Life Sciences</i> , 2001, 58, 477-484.	2.4	16
46	Hepatic mitochondrial energetics during catch-up fat after caloric restriction. <i>Metabolism: Clinical and Experimental</i> , 2010, 59, 1221-1230.	1.5	16
47	Hepatic Mitochondrial Energetics During Catch-up Fat With High-Fat Diets Rich in Lard or Safflower Oil. <i>Obesity</i> , 2012, 20, 1763-1772.	1.5	16
48	Polyunsaturated Fatty Acids Stimulate De novo Lipogenesis and Improve Glucose Homeostasis during Refeeding with High Fat Diet. <i>Frontiers in Physiology</i> , 2017, 8, 178.	1.3	16
49	Alterations in proton leak, oxidative status and uncoupling protein 3 content in skeletal muscle subsarcolemmal and intermyofibrillar mitochondria in old rats. <i>BMC Geriatrics</i> , 2014, 14, 79.	1.1	15
50	Adipose Tissue and Brain Metabolic Responses to Western Diet—Is There a Similarity between the Two?. <i>International Journal of Molecular Sciences</i> , 2020, 21, 786.	1.8	15
51	Thermic effect of food in hypothyroid rats. <i>Journal of Endocrinology</i> , 1996, 148, 167-174.	1.2	14
52	Modulation of hepatic mitochondrial energy efficiency with age. <i>Cellular and Molecular Life Sciences</i> , 2004, 61, 1366-1371.	2.4	14
53	Mitochondrial energetics in liver and skeletal muscle after energy restriction in young rats. <i>British Journal of Nutrition</i> , 2012, 108, 655-665.	1.2	14
54	Hepatic mitochondrial respiratory capacity in hyperphagic rats. <i>Nutrition Research</i> , 1994, 14, 1671-1682.	1.3	13

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55	A Short-term Western Diet Impairs Cholesterol Homeostasis and Key Players of Beta Amyloid Metabolism in Brain of Middle Aged Rats. <i>Molecular Nutrition and Food Research</i> , 2020, 64, 2000541.	1.5	13
56	Fructose Removal from the Diet Reverses Inflammation, Mitochondrial Dysfunction, and Oxidative Stress in Hippocampus. <i>Antioxidants</i> , 2021, 10, 487.	2.2	12
57	Early Hepatic Oxidative Stress and Mitochondrial Changes Following Western Diet in Middle Aged Rats. <i>Nutrients</i> , 2019, 11, 2670.	1.7	11
58	Effect of thyroid state and cold exposure on rat liver mitochondrial protein mass and function. <i>Journal of Endocrinology</i> , 1991, 131, 67-73.	1.2	10
59	Fat balance and hepatic mitochondrial function in response to fat feeding in mature rats. <i>International Journal of Obesity</i> , 1999, 23, 1122-1128.	1.6	10
60	Effect of cold exposure on energy balance and liver respiratory capacity in post-weaning rats fed a high-fat diet. <i>British Journal of Nutrition</i> , 2001, 85, 89-96.	1.2	10
61	The mechanism of stimulation of respiration in isolated hepatocytes from rats fed an energy-dense diet. <i>Journal of Nutritional Biochemistry</i> , 1996, 7, 571-576.	1.9	9
62	Subsarcolemmal and intermyofibrillar mitochondrial responses to short-term high-fat feeding in rat skeletal muscle. <i>Nutrition</i> , 2014, 30, 75-81.	1.1	9
63	Mitochondrial Respiration and Triiodothyronine Concentration in Liver from Postpubertal and Adult Rats. <i>Hormone and Metabolic Research</i> , 2001, 33, 343-347.	0.7	8
64	Prep1 deficiency improves metabolic response in white adipose tissue. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2018, 1863, 515-525.	1.2	8
65	Different effects of cold exposure and cold acclimation on rat liver mitochondrial fatty acid oxidation and ketone bodies production. <i>International Journal of Biochemistry &amp; Cell Biology</i> , 1994, 26, 425-431.	0.8	7
66	Prolonged Changes in Hepatic Mitochondrial Activity and Insulin Sensitivity by High Fructose Intake in Adolescent Rats. <i>Nutrients</i> , 2021, 13, 1370.	1.7	7
67	The effect of cold exposure on rat liver mitochondrial respiratory capacity. <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1991, 98, 583-585.	0.2	6
68	Effect of a high-fat diet on energy balance and thermic effect of food in hypothyroid rats. <i>European Journal of Endocrinology</i> , 1997, 136, 309-315.	1.9	6
69	Tri-iodothyronine enhances the formation of light mitochondria during cold exposure. <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1986, 85, 869-873.	0.2	5
70	Elevated hepatic mitochondrial oxidative capacities in cold exposed rats. <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1990, 97, 327-331.	0.2	5
71	Physiological Changes due to Cold Adaptation in Rat Liver. <i>Cellular Physiology and Biochemistry</i> , 1991, 1, 226-236.	1.1	5
72	Hepatic selective adjustments in short-term cold exposed rats. <i>Cell Biochemistry and Function</i> , 1991, 9, 275-280.	1.4	5

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73	Oxygen consumption and biosynthetic function in perfused liver from rats at different stages of development. <i>Cellular and Molecular Life Sciences</i> , 1998, 54, 1277-1282.	2.4	5
74	Hepatic Fatty Acid-Supported Respiration in Rats Fed an Energy-Dense Diet. <i>Cell Biochemistry and Function</i> , 1996, 14, 283-289.	1.4	5
75	Oxidative activity in mitochondria isolated from rat liver at different stages of development. , 1998, 16, 261-268.		4
76	Metabolic Effects of the Sweet Protein MNEI as a Sweetener in Drinking Water. A Pilot Study of a High Fat Dietary Regimen in a Rodent Model. <i>Nutrients</i> , 2019, 11, 2643.	1.7	4
77	Gut and liver metabolic responses to dietary fructose “ are they reversible or persistent after switching to a healthy diet?. <i>Food and Function</i> , 2021, 12, 7557-7568.	2.1	4
78	Rat liver response elicited by long-term cold exposure. <i>Journal of Physiology (Paris)</i> , 1992, 86, 195-200.	2.1	3
79	Caloric Restriction Followed by High Fat Feeding Predisposes to Oxidative Stress in Skeletal Muscle Mitochondria. <i>Hormone and Metabolic Research</i> , 2013, 45, 874-879.	0.7	3
80	Hepatic fatty acid-supported respiration in rats fed an energy-dense diet. <i>Cell Biochemistry and Function</i> , 1996, 14, 283-289.	1.4	2
81	Metabolic efficiency of liver mitochondria in rats with decreased thermogenesis. <i>FEBS Letters</i> , 2003, 544, 133-137.	1.3	2
82	Metabolic activity in isolated hepatocytes from cold exposed rats subjected to 24-hour fasting. <i>Cell Biochemistry and Function</i> , 1992, 10, 27-30.	1.4	1
83	Rat liver mitochondrial respiratory capacities in the transition from weaning to adulthood. <i>Mechanisms of Ageing and Development</i> , 1998, 100, 59-66.	2.2	1