## Irina G Shabalina

List of Publications by Year in descending order

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#	Article	lF	CITATIONS
1	Elovl2-Ablation Leads to Mitochondrial Membrane Fatty Acid Remodeling and Reduced Efficiency in Mouse Liver Mitochondria. Nutrients, 2022, 14, 559.	4.1	6
2	Establishing the potency of N-acyl amino acids versus conventional fatty acids as thermogenic uncouplers in cells and mitochondria from different tissues. Biochimica Et Biophysica Acta - Bioenergetics, 2022, 1863, 148542.	1.0	4
3	lsothermal microcalorimetry measures UCP1-mediated thermogenesis in mature brite adipocytes. Communications Biology, 2021, 4, 1108.	4.4	7
4	Glucocorticoid-Induced Obesity Develops Independently of UCP1. Cell Reports, 2019, 27, 1686-1698.e5.	6.4	49
5	The <scp>GPR</scp> 120 agonist <scp>TUG</scp> â€891 promotes metabolic health by stimulating mitochondrial respiration in brown fat. EMBO Molecular Medicine, 2018, 10, .	6.9	91
6	Flow Cytometry of Mouse and Human Adipocytes for the Analysis of Browning and Cellular Heterogeneity. Cell Reports, 2018, 24, 2746-2756.e5.	6.4	65
7	UCP1 inhibition in Cidea-overexpressing mice is physiologically counteracted by brown adipose tissue hyperrecruitment. American Journal of Physiology - Endocrinology and Metabolism, 2017, 312, E72-E87.	3.5	41
8	Improved health-span and lifespan in mtDNA mutator mice treated with the mitochondrially targeted antioxidant SkQ1. Aging, 2017, 9, 315-339.	3.1	74
9	Metabolically inert perfluorinated fatty acids directly activate uncoupling protein 1 in brown-fat mitochondria. Archives of Toxicology, 2016, 90, 1117-1128.	4.2	32
10	The Environmental Pollutants Perfluorooctane Sulfonate and Perfluorooctanoic Acid Upregulate Uncoupling Protein 1 (UCP1) in Brown-Fat Mitochondria Through a UCP1-Dependent Reduction in Food Intake. Toxicological Sciences, 2015, 146, 334-343.	3.1	17
11	Cidea improves the metabolic profile through expansion of adipose tissue. Nature Communications, 2015, 6, 7433.	12.8	80
12	Leydig cell steroidogenesis unexpectedly escapes mitochondrial dysfunction in prematurely aging mice. FASEB Journal, 2015, 29, 3274-3286.	0.5	15
13	Novel mitochondrial cationic uncoupler C4R1 is an effective treatment for combating obesity in mice. Biochemistry (Moscow), 2015, 80, 620-628.	1.5	16
14	Age-associated murine cardiac lesions are attenuated by the mitochondria-targeted antioxidant SkQ1. Histology and Histopathology, 2015, 30, 353-60.	0.7	23
15	Quantification of Mitochondrial UCP3 Expression in Mouse Tissues. Biophysical Journal, 2014, 106, 592a.	0.5	2
16	<i>In vivo</i> levels of mitochondrial hydrogen peroxide increase with age in mt <scp>DNA</scp> mutator mice. Aging Cell, 2014, 13, 765-768.	6.7	94
17	ROS production in brown adipose tissue mitochondria: The question of UCP1-dependence. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 2017-2030.	1.0	51
18	UCP1 in Brite/Beige Adipose Tissue Mitochondria Is Functionally Thermogenic. Cell Reports, 2013, 5, 1196-1203.	6.4	523

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19	Quantification of Uncoupling Protein 2 Reveals Its Main Expression in Immune Cells and Selective Up-Regulation during T-Cell Proliferation. PLoS ONE, 2012, 7, e41406.	2.5	47
20	Guanosine diphosphate exerts a lower effect on superoxide release from mitochondrial matrix in the brains of uncoupling protein-2 knockout mice: New evidence for a putative novel function of uncoupling proteins as superoxide anion transporters. Biochemical and Biophysical Research Communications, 2012, 428, 234-238.	2.1	2
21	Effects of the mitochondria-targeted antioxidant SkQ1 on lifespan of rodents. Aging, 2011, 3, 1110-1119.	3.1	99
22	Uncoupled respiration, ROS production, acute lipotoxicity and oxidative damage in isolated skeletal muscle mitochondria from UCP3-ablated mice. Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 1095-1105.	1.0	39
23	Mitochondrial (â€~mild') uncoupling and ROS production: physiologically relevant or not?. Biochemical Society Transactions, 2011, 39, 1305-1309.	3.4	104
24	Shikonin Increases Glucose Uptake in Skeletal Muscle Cells and Improves Plasma Glucose Levels in Diabetic Goto-Kakizaki Rats. PLoS ONE, 2011, 6, e22510.	2.5	36
25	Ultraendurance exercise increases the production of reactive oxygen species in isolated mitochondria from human skeletal muscle. Journal of Applied Physiology, 2010, 108, 780-787.	2.5	83
26	Cold tolerance of UCP1-ablated mice: A skeletal muscle mitochondria switch toward lipid oxidation with marked UCP3 up-regulation not associated with increased basal, fatty acid- or ROS-induced uncoupling or enhanced GDP effects. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 968-980.	1.0	83
27	Uncoupling protein-1 is not leaky. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 773-784.	1.0	78
28	Cardiolipin: Altered content and fatty acid composition in mitochondria from mtDNA mutator mice. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 64.	1.0	0
29	Thermogenically competent recruitment of uncoupling protein 1 in brown preadipocytes and in a subset of cell precursors from epididymal white adipose tissue by a PPARγ agonist. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 89.	1.0	0
30	Increased fatigue resistance linked to Ca <sup>2+</sup> -stimulated mitochondrial biogenesis in muscle fibres of cold-acclimated mice. Journal of Physiology, 2010, 588, 4275-4288.	2.9	71
31	Chronic Peroxisome Proliferator-activated Receptor Î <sup>3</sup> (PPARÎ <sup>3</sup> ) Activation of Epididymally Derived White Adipocyte Cultures Reveals a Population of Thermogenically Competent, UCP1-containing Adipocytes Molecularly Distinct from Classic Brown Adipocytes. Journal of Biological Chemistry, 2010, 285, 7153-7164.	3.4	1,131
32	Caveolin-1-ablated mice survive in cold by nonshivering thermogenesis despite desensitized adrenergic responsiveness. American Journal of Physiology - Endocrinology and Metabolism, 2010, 299, E374-E383.	3.5	12
33	Random Point Mutations with Major Effects on Protein-Coding Genes Are the Driving Force behind Premature Aging in mtDNA Mutator Mice. Cell Metabolism, 2009, 10, 131-138.	16.2	200
34	Within brown-fat cells, UCP1-mediated fatty acid-induced uncoupling is independent of fatty acid metabolism. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 642-650.	1.0	36
35	S5/1 Control of the synthesis of uncoupling and coupling proteins in brown adipose tissue. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, S40.	1.0	0
36	S10.25 Effect of targeted quinones on ROS production and lipid peroxidation in mitochondria: Mitochondrial DNA polymerase mutant mice exibit high sensitivity. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, S64.	1.0	0

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37	Mitochondrial ATP synthase levels in brown adipose tissue are governed by the câ€Fo subunit P1 isoform. FASEB Journal, 2008, 22, 55-63.	0.5	64
38	Nonshivering thermogenesis protects against defective calcium handling in muscle. FASEB Journal, 2008, 22, 3919-3924.	0.5	59
39	Thermogenically competent nonadrenergic recruitment in brown preadipocytes by a PPARÎ <sup>3</sup> agonist. American Journal of Physiology - Endocrinology and Metabolism, 2008, 295, E287-E296.	3.5	125
40	Cold-induced alterations of phospholipid fatty acyl composition in brown adipose tissue mitochondria are independent of uncoupling protein-1. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2007, 293, R1086-R1093.	1.8	27
41	Reduced efficiency, but increased fat oxidation, in mitochondria from human skeletal muscle after 24-h ultraendurance exercise. Journal of Applied Physiology, 2007, 102, 1844-1849.	2.5	52
42	Diphenylene iodonium stimulates glucose uptake in skeletal muscle cells through mitochondrial complex I inhibition and activation of AMP-activated protein kinase. Cellular Signalling, 2007, 19, 1610-1620.	3.6	45
43	Uncoupling proteins: A role in protection against reactive oxygen species—or not?. Biochimica Et Biophysica Acta - Bioenergetics, 2006, 1757, 449-458.	1.0	167
44	Carboxyatractyloside effects on brown-fat mitochondria imply that the adenine nucleotide translocator isoforms ANT1 and ANT2 may be responsible for basal and fatty-acid-induced uncoupling respectively. Biochemical Journal, 2006, 399, 405-414.	3.7	79
45	Differential role of presenilin-1 and -2 on mitochondrial membrane potential and oxygen consumption in mouse embryonic fibroblasts. Journal of Neuroscience Research, 2006, 84, 891-902.	2.9	42
46	UCP1 and Defense against Oxidative Stress. Journal of Biological Chemistry, 2006, 281, 13882-13893.	3.4	79
47	ELOVL3 Is an Important Component for Early Onset of Lipid Recruitment in Brown Adipose Tissue. Journal of Biological Chemistry, 2006, 281, 4958-4968.	3.4	122
48	SOD2 overexpression: enhanced mitochondrial tolerance but absence of effect on UCP activity. EMBO Journal, 2005, 24, 4061-4070.	7.8	98
49	Native UCP1 Displays Simple Competitive Kinetics between the Regulators Purine Nucleotides and Fatty Acids. Journal of Biological Chemistry, 2004, 279, 38236-38248.	3.4	143
50	Inhibitory effects of halothane on the thermogenic pathway in brown adipocytes: localization to adenylyl cyclase and mitochondrial fatty acid oxidation. Biochemical Pharmacology, 2004, 68, 463-477.	4.4	29
51	Effect of transforming growth factor-β on calcium homeostasis in prostate carcinoma cells. Biochemical and Biophysical Research Communications, 2003, 304, 643-649.	2.1	15
52	Uncoupling protein-1: involvement in a novel pathway for β-adrenergic, cAMP-mediated intestinal relaxation. American Journal of Physiology - Renal Physiology, 2002, 283, G1107-G1116.	3.4	11
53	Generation of reactive oxygen species by mitochondria in senescence-accelerated OXYS rats. Bulletin of Experimental Biology and Medicine, 2002, 133, 175-177.	0.8	5
54	Reactive Oxygen Species and Mitochondria Mediate the Induction of Apoptosis in Human Hepatoma HepG2 Cells by the Rodent Peroxisome Proliferator and Hepatocarcinogen, Perfluorooctanoic Acid. Toxicology and Applied Pharmacology, 2001, 173, 56-64.	2.8	133

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55	Dynamics of structural and functional changes in hepatocyte mitochondria of senescence-accelerated OXYS rats. Bulletin of Experimental Biology and Medicine, 2001, 132, 814-819.	0.8	22
56	Effects of the rodent peroxisome proliferator and hepatocarcinogen, perfluorooctanoic acid, on apoptosis in human hepatoma HepG2 cells. Carcinogenesis, 1999, 20, 2237-2246.	2.8	55
57	Physicochemical properties of membranes and functional status of liver mitochondria in rats with an inherited capacity for increased radical formation. Bulletin of Experimental Biology and Medicine, 1995, 119, 605-607.	0.8	1
58	Impairment of Respiratory Functions in Mitochondria of Rats with an Inherited Hyperproduction of Free Radicals. Biochemical and Biophysical Research Communications, 1994, 205, 180-185.	2.1	39