

Irina G Shabalina

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

4,626
citations

109311

35
h-index

155644

55
g-index

69
all docs

69
docs citations

69
times ranked

6973
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Elovl2-Ablation Leads to Mitochondrial Membrane Fatty Acid Remodeling and Reduced Efficiency in Mouse Liver Mitochondria. <i>Nutrients</i> , 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. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2022, 1863, 148542. | 1.0 | 4 |
| 3 | Isothermal microcalorimetry measures UCP1-mediated thermogenesis in mature brite adipocytes. <i>Communications Biology</i> , 2021, 4, 1108. | 4.4 | 7 |
| 4 | Glucocorticoid-Induced Obesity Develops Independently of UCP1. <i>Cell Reports</i> , 2019, 27, 1686-1698.e5. | 6.4 | 49 |
| 5 | The <sc>GPR</sc> 120 agonist <sc>TUG</sc> â€91 promotes metabolic health by stimulating mitochondrial respiration in brown fat. <i>EMBO Molecular Medicine</i> , 2018, 10, . | 6.9 | 91 |
| 6 | Flow Cytometry of Mouse and Human Adipocytes for the Analysis of Browning and Cellular Heterogeneity. <i>Cell Reports</i> , 2018, 24, 2746-2756.e5. | 6.4 | 65 |
| 7 | UCP1 inhibition in Cidea-overexpressing mice is physiologically counteracted by brown adipose tissue hyperrecruitment. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2017, 312, E72-E87. | 3.5 | 41 |
| 8 | Improved health-span and lifespan in mtDNA mutator mice treated with the mitochondrially targeted antioxidant SkQ1. <i>Aging</i> , 2017, 9, 315-339. | 3.1 | 74 |
| 9 | Metabolically inert perfluorinated fatty acids directly activate uncoupling protein 1 in brown-fat mitochondria. <i>Archives of Toxicology</i> , 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. <i>Toxicological Sciences</i> , 2015, 146, 334-343. | 3.1 | 17 |
| 11 | Cidea improves the metabolic profile through expansion of adipose tissue. <i>Nature Communications</i> , 2015, 6, 7433. | 12.8 | 80 |
| 12 | Leydig cell steroidogenesis unexpectedly escapes mitochondrial dysfunction in prematurely aging mice. <i>FASEB Journal</i> , 2015, 29, 3274-3286. | 0.5 | 15 |
| 13 | Novel mitochondrial cationic uncoupler C4R1 is an effective treatment for combating obesity in mice. <i>Biochemistry (Moscow)</i> , 2015, 80, 620-628. | 1.5 | 16 |
| 14 | Age-associated murine cardiac lesions are attenuated by the mitochondria-targeted antioxidant SkQ1. <i>Histology and Histopathology</i> , 2015, 30, 353-60. | 0.7 | 23 |
| 15 | Quantification of Mitochondrial UCP3 Expression in Mouse Tissues. <i>Biophysical Journal</i> , 2014, 106, 592a. | 0.5 | 2 |
| 16 | <i>In vivo</i> levels of mitochondrial hydrogen peroxide increase with age in mt<sc>DNA</sc> mutator mice. <i>Aging Cell</i> , 2014, 13, 765-768. | 6.7 | 94 |
| 17 | ROS production in brown adipose tissue mitochondria: The question of UCP1-dependence. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 2017-2030. | 1.0 | 51 |
| 18 | UCP1 in Brite/Beige Adipose Tissue Mitochondria Is Functionally Thermogenic. <i>Cell Reports</i> , 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€™) 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 PPARÎ³ agonist. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 89. | 1.0 | 0 |
| 30 | Increased fatigue resistance linked to Ca ²⁺ -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 Î³ (PPARÎ³) 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 exhibit 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 ϵ subunit P1 isoform. <i>FASEB Journal</i> , 2008, 22, 55-63. | 0.5 | 64 |
| 38 | Nonshivering thermogenesis protects against defective calcium handling in muscle. <i>FASEB Journal</i> , 2008, 22, 3919-3924. | 0.5 | 59 |
| 39 | Thermogenically competent nonadrenergic recruitment in brown preadipocytes by a PPAR β agonist. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 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. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 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. <i>Journal of Applied Physiology</i> , 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. <i>Cellular Signalling</i> , 2007, 19, 1610-1620. | 3.6 | 45 |
| 43 | Uncoupling proteins: A role in protection against reactive oxygen species or not?. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 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. <i>Biochemical Journal</i> , 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. <i>Journal of Neuroscience Research</i> , 2006, 84, 891-902. | 2.9 | 42 |
| 46 | UCP1 and Defense against Oxidative Stress. <i>Journal of Biological Chemistry</i> , 2006, 281, 13882-13893. | 3.4 | 79 |
| 47 | ELOVL3 Is an Important Component for Early Onset of Lipid Recruitment in Brown Adipose Tissue. <i>Journal of Biological Chemistry</i> , 2006, 281, 4958-4968. | 3.4 | 122 |
| 48 | SOD2 overexpression: enhanced mitochondrial tolerance but absence of effect on UCP activity. <i>EMBO Journal</i> , 2005, 24, 4061-4070. | 7.8 | 98 |
| 49 | Native UCP1 Displays Simple Competitive Kinetics between the Regulators Purine Nucleotides and Fatty Acids. <i>Journal of Biological Chemistry</i> , 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. <i>Biochemical Pharmacology</i> , 2004, 68, 463-477. | 4.4 | 29 |
| 51 | Effect of transforming growth factor- β 2 on calcium homeostasis in prostate carcinoma cells. <i>Biochemical and Biophysical Research Communications</i> , 2003, 304, 643-649. | 2.1 | 15 |
| 52 | Uncoupling protein-1: involvement in a novel pathway for β 2-adrenergic, cAMP-mediated intestinal relaxation. <i>American Journal of Physiology - Renal Physiology</i> , 2002, 283, G1107-G1116. | 3.4 | 11 |
| 53 | Generation of reactive oxygen species by mitochondria in senescence-accelerated OXYS rats. <i>Bulletin of Experimental Biology and Medicine</i> , 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. <i>Toxicology and Applied Pharmacology</i> , 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. <i>Bulletin of Experimental Biology and Medicine</i> , 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. <i>Carcinogenesis</i> , 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. <i>Bulletin of Experimental Biology and Medicine</i> , 1995, 119, 605-607. | 0.8 | 1 |
| 58 | Impairment of Respiratory Functions in Mitochondria of Rats with an Inherited Hyperproduction of Free Radicals. <i>Biochemical and Biophysical Research Communications</i> , 1994, 205, 180-185. | 2.1 | 39 |