

Erin L Seifert

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

4,261
citations

117625

34
h-index

123424

61
g-index

73
all docs

73
docs citations

73
times ranked

7172
citing authors

#	ARTICLE	IF	CITATIONS
1	Sirt1 Regulates Energy Metabolism and Response to Caloric Restriction in Mice. PLoS ONE, 2008, 3, e1759.	2.5	397
2	MICU1 Controls Both the Threshold and Cooperative Activation of the Mitochondrial Ca ²⁺ Uniporter. Cell Metabolism, 2013, 17, 976-987.	16.2	397
3	Loss of the Parkinson's disease-linked gene DJ-1 perturbs mitochondrial dynamics. Human Molecular Genetics, 2010, 19, 3734-3746.	2.9	343
4	Electron Transport Chain-dependent and -independent Mechanisms of Mitochondrial H ₂ O ₂ Emission during Long-chain Fatty Acid Oxidation. Journal of Biological Chemistry, 2010, 285, 5748-5758.	3.4	211
5	Mitochondrial functions modulate neuroendocrine, metabolic, inflammatory, and transcriptional responses to acute psychological stress. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E6614-23.	7.1	209
6	MICU1 regulation of mitochondrial Ca ²⁺ uptake dictates survival and tissue regeneration. Nature Communications, 2016, 7, 10955.	12.8	159
7	Glutathionylation Acts as a Control Switch for Uncoupling Proteins UCP2 and UCP3. Journal of Biological Chemistry, 2011, 286, 21865-21875.	3.4	156
8	Thyroid Hormone Effects on Mitochondrial Energetics. Thyroid, 2008, 18, 145-156.	4.5	145
9	Tissue-Specific Mitochondrial Decoding of Cytoplasmic Ca ²⁺ Signals Is Controlled by the Stoichiometry of MICU1/2 and MCU. Cell Reports, 2017, 18, 2291-2300.	6.4	145
10	Hypoxic depression of circadian rhythms in adult rats. Journal of Applied Physiology, 2000, 88, 365-368.	2.5	141
11	The Retinal Pigment Epithelium Utilizes Fatty Acids for Ketogenesis. Journal of Biological Chemistry, 2014, 289, 20570-20582.	3.4	136
12	Uncoupling protein-3: clues in an ongoing mitochondrial mystery. FASEB Journal, 2007, 21, 312-324.	0.5	122
13	Hypoxia promotes noncanonical autophagy in nucleus pulposus cells independent of MTOR and HIF1A signaling. Autophagy, 2016, 12, 1631-1646.	9.1	89
14	Essential Role for Uncoupling Protein-3 in Mitochondrial Adaptation to Fasting but Not in Fatty Acid Oxidation or Fatty Acid Anion Export. Journal of Biological Chemistry, 2008, 283, 25124-25131.	3.4	88
15	Posttranscriptional Upregulation of IDH1 by HuR Establishes a Powerful Survival Phenotype in Pancreatic Cancer Cells. Cancer Research, 2017, 77, 4460-4471.	0.9	87
16	The SIRT1 deacetylase protects mice against the symptoms of metabolic syndrome. FASEB Journal, 2014, 28, 1306-1316.	0.5	74
17	Dysregulation of Mitochondrial Ca ²⁺ Uptake and Sarcolemma Repair Underlie Muscle Weakness and Wasting in Patients and Mice Lacking MICU1. Cell Reports, 2019, 29, 1274-1286.e6.	6.4	68
18	Acyl-CoA thioesterase-2 facilitates mitochondrial fatty acid oxidation in the liver. Journal of Lipid Research, 2014, 55, 2458-2470.	4.2	64

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19	TP53-inducible Glycolysis and Apoptosis Regulator (TIGAR) Metabolically Reprograms Carcinoma and Stromal Cells in Breast Cancer. <i>Journal of Biological Chemistry</i> , 2016, 291, 26291-26303.	3.4	62
20	The Adipocyte-Expressed Forkhead Transcription Factor Foxc2 Regulates Metabolism Through Altered Mitochondrial Function. <i>Diabetes</i> , 2011, 60, 427-435.	0.6	61
21	Decreased left ventricular function, myocarditis, and coronary arteriolar medial thickening following monocrotaline administration in adult rats. <i>Journal of Applied Physiology</i> , 2007, 103, 287-295.	2.5	55
22	MSTO 1 is a cytoplasmic pro-mitochondrial fusion protein, whose mutation induces myopathy and ataxia in humans. <i>EMBO Molecular Medicine</i> , 2017, 9, 967-984.	6.9	53
23	Distinct skeletal muscle fiber characteristics and gene expression in diet-sensitive versus diet-resistant obesity. <i>Journal of Lipid Research</i> , 2010, 51, 2394-2404.	4.2	52
24	The mitochondrial phosphate carrier: Role in oxidative metabolism, calcium handling and mitochondrial disease. <i>Biochemical and Biophysical Research Communications</i> , 2015, 464, 369-375.	2.1	52
25	Sirt1 catalytic activity is required for male fertility and metabolic homeostasis in mice. <i>FASEB Journal</i> , 2012, 26, 555-566.	0.5	51
26	Bicarbonate Recycling by HIF-1-Dependent Carbonic Anhydrase Isoforms 9 and 12 Is Critical in Maintaining Intracellular pH and Viability of Nucleus Pulposus Cells. <i>Journal of Bone and Mineral Research</i> , 2018, 33, 338-355.	2.8	46
27	Cyclin D1 Restrains Oncogene-Induced Autophagy by Regulating the AMPK-LKB1 Signaling Axis. <i>Cancer Research</i> , 2017, 77, 3391-3405.	0.9	45
28	Continuous circadian measurements of ventilation in behaving adult rats. <i>Respiration Physiology</i> , 2000, 120, 179-183.	2.7	44
29	The circadian pattern of breathing in conscious adult rats. <i>Respiration Physiology</i> , 2002, 129, 297-305.	2.7	44
30	Muscle uncoupling protein 3 overexpression mimics endurance training and reduces circulating biomarkers of incomplete β -oxidation. <i>FASEB Journal</i> , 2013, 27, 4213-4225.	0.5	43
31	Reliance of ER-mitochondrial calcium signaling on mitochondrial EF-hand Ca^{2+} binding proteins: Miro5, MICU5, LETM1 and solute carriers. <i>Current Opinion in Cell Biology</i> , 2014, 29, 133-141.	5.4	42
32	Functional mitochondrial analysis in acute brain sections from adult rats reveals mitochondrial dysfunction in a rat model of migraine. <i>American Journal of Physiology - Cell Physiology</i> , 2014, 307, C1017-C1030.	4.6	40
33	Quantification of lactoyl-CoA (lactyl-CoA) by liquid chromatography mass spectrometry in mammalian cells and tissues. <i>Open Biology</i> , 2020, 10, 200187.	3.6	38
34	Rescue of Neurons from Ischemic Injury by Peroxisome Proliferator-Activated Receptor- γ Requires a Novel Essential Cofactor LMO4. <i>Journal of Neuroscience</i> , 2008, 28, 12433-12444.	3.6	37
35	The energetic implications of uncoupling protein-3 in skeletal muscle. <i>Applied Physiology, Nutrition and Metabolism</i> , 2007, 32, 884-894.	1.9	35
36	IL-15 is a determinant of muscle fuel utilization, and its loss protects against obesity. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015, 309, R835-R844.	1.8	31

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37	BAP1 mutant uveal melanoma is stratified by metabolic phenotypes with distinct vulnerability to metabolic inhibitors. <i>Oncogene</i> , 2021, 40, 618-632.	5.9	28
38	Intrinsic aerobic capacity correlates with greater inherent mitochondrial oxidative and H ₂ O ₂ emission capacities without major shifts in myosin heavy chain isoform. <i>Journal of Applied Physiology</i> , 2012, 113, 1624-1634.	2.5	27
39	Multiple mitochondrial thioesterases have distinct tissue and substrate specificity and CoA regulation, suggesting unique functional roles. <i>Journal of Biological Chemistry</i> , 2019, 294, 19034-19047.	3.4	27
40	Hypoxic depression of circadian oscillations in sino-aortic denervated rats. <i>Respiration Physiology</i> , 2000, 122, 61-69.	2.7	26
41	Circadian patterns of breathing. <i>Respiratory Physiology and Neurobiology</i> , 2002, 131, 91-100.	1.6	25
42	Loss of PINK1 causes age-dependent decrease of dopamine release and mitochondrial dysfunction. <i>Neurobiology of Aging</i> , 2019, 75, 1-10.	3.1	25
43	Long-Chain Fatty Acid Combustion Rate Is Associated with Unique Metabolite Profiles in Skeletal Muscle Mitochondria. <i>PLoS ONE</i> , 2010, 5, e9834.	2.5	24
44	Circadian pattern of ventilation during prolonged hypoxia in conscious rats. <i>Respiratory Physiology and Neurobiology</i> , 2002, 133, 23-34.	1.6	23
45	Absence of uncoupling protein-3 leads to greater activation of an adenine nucleotide translocase-mediated proton conductance in skeletal muscle mitochondria from calorie restricted mice. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 1389-1397.	1.0	22
46	Metabolic reprogramming of murine cardiomyocytes during autophagy requires the extracellular nutrient sensor decorin. <i>Journal of Biological Chemistry</i> , 2018, 293, 16940-16950.	3.4	19
47	Natural and Induced Mitochondrial Phosphate Carrier Loss. <i>Journal of Biological Chemistry</i> , 2016, 291, 26126-26137.	3.4	18
48	Arsenic-induced metabolic shift triggered by the loss of miR-199a-5p through Sp1-dependent DNA methylation. <i>Toxicology and Applied Pharmacology</i> , 2019, 378, 114606.	2.8	18
49	Lower Mitochondrial Proton Leak and Decreased Glutathione Redox in Primary Muscle Cells of Obese Diet-Resistant Versus Diet-Sensitive Humans. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2014, 99, 4223-4230.	3.6	17
50	Baclofen attenuates cardiorespiratory effects of vagal C fiber stimulation in rats. <i>Canadian Journal of Physiology and Pharmacology</i> , 1995, 73, 1485-1494.	1.4	13
51	A Novel Role for DNA-PK in Metabolism by Regulating Glycolysis in Castration-Resistant Prostate Cancer. <i>Clinical Cancer Research</i> , 2022, 28, 1446-1459.	7.0	12
52	Calorie restriction in mice overexpressing UCP3: Evidence that prior mitochondrial uncoupling alters response. <i>Experimental Gerontology</i> , 2012, 47, 361-371.	2.8	11
53	Light-dark differences in the effects of ambient temperature on gaseous metabolism in newborn rats. <i>Journal of Applied Physiology</i> , 2000, 88, 1853-1858.	2.5	8
54	OP-1 injection increases VEGF expression but not angiogenesis in a rabbit model of distraction osteogenesis. <i>Growth Factors</i> , 2008, 26, 143-151.	1.7	8

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55	Frataxin deficiency lowers lean mass and triggers the integrated stress response in skeletal muscle. <i>JCI Insight</i> , 2022, 7, .	5.0	8
56	Effect of Body Warming on Regional Blood Flow Distribution in Conscious Hypoxic One-Month-Old Rabbits. <i>Neonatology</i> , 2006, 90, 104-112.	2.0	7
57	Adaptation of the heart to Frataxin depletion: Evidence that integrated stress response can predominate over mTORC1 activation. <i>Human Molecular Genetics</i> , 2021, , .	2.9	6
58	Pyruvate dehydrogenase inactivation causes glycolytic phenotype in BAP1 mutant uveal melanoma. <i>Oncogene</i> , 2022, , .	5.9	6
59	Mitochondrial Calcium Uniporter Affects Neutrophil Bactericidal Activity during <i>Staphylococcus aureus</i> Infection. <i>Infection and Immunity</i> , 2022, 90, IA10055121.	2.2	5
60	MICU1 Serves as a Ca ²⁺ -Controlled Gatekeeper for the Mitochondrial Ca ²⁺ Uniporter. <i>Biophysical Journal</i> , 2012, 102, 163a-164a.	0.5	4
61	MICU1, the Ca ²⁺ Sensing Regulator of the Mitochondrial Ca ²⁺ Uniporter is Required for Adaptation to Postnatal Life. <i>Biophysical Journal</i> , 2016, 110, 311a.	0.5	0
62	Characterization of Mitochondrial Calcium Uptake in Skeletal Muscle. <i>Biophysical Journal</i> , 2016, 110, 259a.	0.5	0
63	Mitochondrial Calcium Uptake and Matrix Calcium Buffering in Skeletal Muscle. <i>Biophysical Journal</i> , 2017, 112, 130a-131a.	0.5	0
64	Loss of Mitochondrial Phosphate Carrier in Skeletal Muscle: Dissociation of Muscle Dysfunction from Lower ADP Phosphorylating Potential. <i>Biophysical Journal</i> , 2018, 114, 658a.	0.5	0
65	Mitochondrial uncoupling and remodeling during caloric restriction: Implications for oxidative stress and aging. <i>FASEB Journal</i> , 2009, 23, 954.14.	0.5	0