

# Lawrence Kazak

## List of Publications by Year in descending order

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Version: 2024-02-01

45  
papers

5,464  
citations

147726

31  
h-index

254106

43  
g-index

46  
all docs

46  
docs citations

46  
times ranked

7832  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Creatine-Driven Substrate Cycle Enhances Energy Expenditure and Thermogenesis in Beige Fat. <i>Cell</i> , 2015, 163, 643-655.	13.5	575
2	Tumour-derived PTH-related protein triggers adipose tissue browning and cancer cachexia. <i>Nature</i> , 2014, 513, 100-104.	13.7	515
3	New Advances in Adaptive Thermogenesis: UCP1 and Beyond. <i>Cell Metabolism</i> , 2019, 29, 27-37.	7.2	451
4	Accumulation of succinate controls activation of adipose tissue thermogenesis. <i>Nature</i> , 2018, 560, 102-106.	13.7	380
5	Mitochondrial ROS regulate thermogenic energy expenditure and sulfenylation of UCP1. <i>Nature</i> , 2016, 532, 112-116.	13.7	341
6	Minimizing the damage: repair pathways keep mitochondrial DNA intact. <i>Nature Reviews Molecular Cell Biology</i> , 2012, 13, 659-671.	16.1	324
7	mTOR as a central regulator of lifespan and aging. <i>F1000Research</i> , 2019, 8, 998.	0.8	244
8	IRF4 Is a Key Thermogenic Transcriptional Partner of PGC-1 $\beta$ . <i>Cell</i> , 2014, 158, 69-83.	13.5	239
9	Fat cells directly sense temperature to activate thermogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 12480-12485.	3.3	208
10	Genetic Depletion of Adipocyte Creatine Metabolism Inhibits Diet-Induced Thermogenesis and Drives Obesity. <i>Cell Metabolism</i> , 2017, 26, 660-671.e3.	7.2	187
11	H <sup>+</sup> transport is an integral function of the mitochondrial ADP/ATP carrier. <i>Nature</i> , 2019, 571, 515-520.	13.7	183
12	Mitochondrial Patch Clamp of Beige Adipocytes Reveals UCP1-Positive and UCP1-Negative Cells Both Exhibiting Futile Creatine Cycling. <i>Cell Metabolism</i> , 2017, 25, 811-822.e4.	7.2	174
13	Brown Adipose Tissue Controls Skeletal Muscle Function via the Secretion of Myostatin. <i>Cell Metabolism</i> , 2018, 28, 631-643.e3.	7.2	147
14	UCP1 deficiency causes brown fat respiratory chain depletion and sensitizes mitochondria to calcium overload-induced dysfunction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 7981-7986.	3.3	136
15	IRF3 promotes adipose inflammation and insulin resistance and represses browning. <i>Journal of Clinical Investigation</i> , 2016, 126, 2839-2854.	3.9	134
16	Ablation of adipocyte creatine transport impairs thermogenesis and causes diet-induced obesity. <i>Nature Metabolism</i> , 2019, 1, 360-370.	5.1	103
17	Creatine metabolism: energy homeostasis, immunity and cancer biology. <i>Nature Reviews Endocrinology</i> , 2020, 16, 421-436.	4.3	103
18	Creatine kinase B controls futile creatine cycling in thermogenic fat. <i>Nature</i> , 2021, 590, 480-485.	13.7	102

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19	Mitochondrial DNA replication proceeds via a "bootlace"™ mechanism involving the incorporation of processed transcripts. <i>Nucleic Acids Research</i> , 2013, 41, 5837-5850.	6.5	93
20	UCP1-independent thermogenesis. <i>Biochemical Journal</i> , 2020, 477, 709-725.	1.7	85
21	Mitochondrial reactive oxygen species and adipose tissue thermogenesis: Bridging physiology and mechanisms. <i>Journal of Biological Chemistry</i> , 2017, 292, 16810-16816.	1.6	77
22	Mitochondrial TNAP controls thermogenesis by hydrolysis of phosphocreatine. <i>Nature</i> , 2021, 593, 580-585.	13.7	64
23	Neutrophil oxidative stress mediates obesity-associated vascular dysfunction and metastatic transmigration. <i>Nature Cancer</i> , 2021, 2, 545-562.	5.7	63
24	Creatine-mediated crosstalk between adipocytes and cancer cells regulates obesity-driven breast cancer. <i>Cell Metabolism</i> , 2021, 33, 499-512.e6.	7.2	61
25	Alternative translation initiation augments the human mitochondrial proteome. <i>Nucleic Acids Research</i> , 2013, 41, 2354-2369.	6.5	56
26	Mitochondrial uncouplers induce proton leak by activating AAC and UCP1. <i>Nature</i> , 2022, 606, 180-187.	13.7	48
27	Noncanonical agonist PPAR $\beta$ ligands modulate the response to DNA damage and sensitize cancer cells to cytotoxic chemotherapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 561-566.	3.3	45
28	An Evolutionarily Conserved uORF Regulates PGC1 $\beta$ and Oxidative Metabolism in Mice, Flies, and Bluefin Tuna. <i>Cell Metabolism</i> , 2019, 30, 190-200.e6.	7.2	45
29	Cdkal1, a type 2 diabetes susceptibility gene, regulates mitochondrial function in adipose tissue. <i>Molecular Metabolism</i> , 2017, 6, 1212-1225.	3.0	44
30	Regulation of adipocyte thermogenesis: mechanisms controlling obesity. <i>FEBS Journal</i> , 2020, 287, 3370-3385.	2.2	44
31	A Cryptic Targeting Signal Creates a Mitochondrial FEN1 Isoform with Tailed R-Loop Binding Properties. <i>PLoS ONE</i> , 2013, 8, e62340.	1.1	36
32	Effects of endurance training on apoptotic susceptibility in striated muscle. <i>Journal of Applied Physiology</i> , 2011, 110, 1638-1645.	1.2	32
33	Facultative protein selenation regulates redox sensitivity, adipose tissue thermogenesis, and obesity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 10789-10796.	3.3	30
34	Multiplexed Isobaric Tag $\beta$ -Based Profiling of Seven Murine Tissues Following In Vivo Nicotine Treatment Using a Minimalistic Proteomics Strategy. <i>Proteomics</i> , 2018, 18, e1700326.	1.3	22
35	Transcript availability dictates the balance between strand-asynchronous and strand-coupled mitochondrial DNA replication. <i>Nucleic Acids Research</i> , 2018, 46, 10771-10781.	6.5	20
36	No evidence for brown adipose tissue activation after creatine supplementation in adult vegetarians. <i>Nature Metabolism</i> , 2021, 3, 107-117.	5.1	15

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37	Characterizing the mitochondrial DNA polymerase gamma interactome by BioID identifies Ruvbl2 localizes to the mitochondria. <i>Mitochondrion</i> , 2017, 32, 31-35.	1.6	13
38	Creatine transport and creatine kinase activity is required for CD8+ T cell immunity. <i>Cell Reports</i> , 2022, 38, 110446.	2.9	11
39	Mechanism of futile creatine cycling in thermogenesis. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2020, 319, E947-E949.	1.8	3
40	Creatine promotes metastatic dissemination. <i>Cell Metabolism</i> , 2021, 33, 1065-1067.	7.2	3
41	Measurement of Futile Creatine Cycling Using Respirometry. <i>Methods in Molecular Biology</i> , 2022, 2448, 141-153.	0.4	3
42	Calcium burns beige. <i>Journal of Experimental Medicine</i> , 2022, 219, .	4.2	2
43	Bioenergetic Analyses in Adipose Tissue. <i>Methods in Molecular Biology</i> , 2017, 1566, 125-134.	0.4	1
44	Career pathways, part 1. <i>Nature Metabolism</i> , 2020, 2, 481-482.	5.1	0
45	Balancing energy demand and production by mitochondrial trafficking of RHEB. <i>Developmental Cell</i> , 2021, 56, 721-722.	3.1	0