Brett A Kaufman

List of Publications by Year
in descending order

49 papers	2,929 citations	318942 23 h-index	286692 43 g-index
65 all docs	65 docs citations	65 times ranked	7381 citing authors

#	Article	IF	Citations
1	Extracellular Release of Mitochondrial DNA: Triggered by Cigarette Smoke and Detected in COPD. Cells, 2022, 11, 369.	1.8	22
2	SOD2 V16A amplifies vascular dysfunction in sickle cell patients by curtailing mitochondria complex IV activity. Blood, 2022, 139, 1760-1765.	0.6	9
3	Metformin protects against cardiac and renal damage in diabetic cardiac arrest patients. Resuscitation, 2022, 174, 42-46.	1.3	4
4	Functional characterization of variants of unknown significance in a spinocerebellar ataxia patient using an unsupervised machine learning pipeline. Human Genome Variation, 2022, 9, 10.	0.4	2
5	Mitofusin 1 and 2 regulation of mitochondrial DNA content is a critical determinant of glucose homeostasis. Nature Communications, 2022, 13, 2340.	5.8	29
6	IRGM1, a guardian of mitochondrial DAMPâ€“mediated autoinflammation. Nature Immunology, 2021, 22, 272-273.	7.0	3
7	Stress and circulating cell-free mitochondrial DNA: A systematic review of human studies, physiological considerations, and technical recommendations. Mitochondrion, 2021, 59, 225-245.	1.6	78
8	A murine model of the human CREBRFR457Q obesity-risk variant does not influence energy or glucose homeostasis in response to nutritional stress. PLoS ONE, 2021, 16, e0251895.	1.1	3
9	Validation and clinical performance of a combined nuclearâ€mitochondrial nextâ€generation sequencing and copy number variant analysis panel in a Canadian population. American Journal of Medical Genetics, Part A, 2020, 185, 486-499.	0.7	7
10	An automated, high-throughput methodology optimized for quantitative cell-free mitochondrial and nuclear DNA isolation from plasma. Journal of Biological Chemistry, 2020, 295, 15677-15691.	1.6	20
11	Cardiolipin deficiency elevates susceptibility to a lipotoxic hypertrophic cardiomyopathy. Journal of Molecular and Cellular Cardiology, 2020, 144, 24-34.	0.9	25
12	Commercial 4-dimensional echocardiography for murine heart volumetric evaluation after myocardial infarction. Cardiovascular Ultrasound, 2020, 18, 9.	0.5	10
13	Liver-specific Prkn knockout mice are more susceptible to diet-induced hepatic steatosis and insulin resistance. Molecular Metabolism, 2020, 41, 101051.	3.0	27
14	Mitochondrial respiratory capacity modulates LPS-induced inflammatory signatures in human blood. Brain, Behavior, & Immunity - Health, 2020, 5, 100080.	1.3	23
15	A novel ultrasound-guided mouse model of sudden cardiac arrest. PLoS ONE, 2020, 15, e0237292.	1.1	7
16	Using Two-Dimensional Intact Mitochondrial DNA (mtDNA) Agarose Gel Electrophoresis (2D-IMAGE) to Detect Changes in Topology Associated with Mitochondrial Replication, Transcription, and Damage. Methods in Molecular Biology, 2020, 2119, 25-42.	0.4	2
17	A novel ultrasound-guided mouse model of sudden cardiac arrest. , 2020, 15, e0237292.		0
18	A novel ultrasound-guided mouse model of sudden cardiac arrest. , 2020, 15, e0237292.		0

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19	A novel ultrasound-guided mouse model of sudden cardiac arrest. , 2020, 15, e0237292.		0
20	A novel ultrasound-guided mouse model of sudden cardiac arrest. , 2020, 15, e0237292.		0
21	A novel ultrasound-guided mouse model of sudden cardiac arrest. , 2020, 15, e0237292.		0
22	A novel ultrasound-guided mouse model of sudden cardiac arrest. , 2020, 15, e0237292.		0
23	G-quadruplex-mediated reduction of a pathogenic mitochondrial heteroplasmy. Human Molecular Genetics, 2019, 28, 3163-3174.	1.4	14
24	Potential Roles for G-Quadruplexes in Mitochondria. Current Medicinal Chemistry, 2019, 26, 2918-2932.	1.2	58
25	Mitochondrial Damage and Activation of the STING Pathway Lead to Renal Inflammation and Fibrosis. Cell Metabolism, 2019, 30, 784-799.e5.	7.2	320
26	Petite Integration Factor 1 (PIF1) helicase deficiency increases weight gain in Western diet-fed female mice without increased inflammatory markers or decreased glucose clearance. PLoS ONE, 2019, 14, e0203101.	1.1	7
27	PINK1 attenuates mtDNA release in alveolar epithelial cells and TLR9 mediated profibrotic responses. PLoS ONE, 2019, 14, e0218003.	1.1	65
28	Predictors of ccf-mtDNA reactivity to acute psychological stress identified using machine learning classifiers: A proof-of-concept. Psychoneuroendocrinology, 2019, 107, 82-92.	1.3	10
29	Oxidative stress-induced senescence markedly increases disc cell bioenergetics. Mechanisms of Ageing and Development, 2019, 180, 97-106.	2.2	22
30	Acute psychological stress increases serum circulating cell-free mitochondrial DNA. Psychoneuroendocrinology, 2019, 106, 268-276.	1.3	87
31	G-quadruplex dynamics contribute to regulation of mitochondrial gene expression. Scientific Reports, 2019, 9, 5605.	1.6	65
32	Nox1/Ref-1-mediated activation of CREB promotes Gremlin1-driven endothelial cell proliferation and migration. Redox Biology, 2019, 22, 101138.	3.9	35
33	The mitochondrial transcription factor <scp>TFAM</scp> in neurodegeneration: emerging evidence and mechanisms. FEBS Letters, 2018, 592, 793-811.	1.3	182
34	Aggressive triple negative breast cancers have unique molecular signature on the basis of mitochondrial genetic and functional defects. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2018, 1864, 1060-1071.	1.8	57
35	LRRK2 G2019S-induced mitochondrial DNA damage is LRRK2 kinase dependent and inhibition restores mtDNA integrity in Parkinsonâ€™s disease. Human Molecular Genetics, 2017, 26, 4340-4351.	1.4	76
36	Single-Step qPCR and dPCR Detection of Diverse CRISPR-Cas9 Gene Editing Events in Vivo. G3: Genes, Genomes, Genetics, 2017, 7, 3533-3542.	0.8	19

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37	POLB: A new role of DNA polymerase beta in mitochondrial base excision repair. DNA Repair, 2017, 60, A1-A5.	1.3	29
38	Digital PCR methods improve detection sensitivity and measurement precision of low abundance mtDNA deletions. Scientific Reports, 2016, 6, 25186.	1.6	63
39	Inactivation of Pif1 helicase causes a mitochondrial myopathy in mice. Mitochondrion, 2016, 30, 126-137.	1.6	34
40	Ca ²⁺ signals regulate mitochondrial metabolism by stimulating CREB-mediated expression of the mitochondrial Ca ²⁺ uniporter gene MCU. Science Signaling, 2015, 8, ra23.	1.6	102
41	Mitochondrial regulation of Î²-cell function: Maintaining the momentum for insulin release. Molecular Aspects of Medicine, 2015, 42, 91-104.	2.7	76
42	Diabetes Susceptibility Genes Pdx1 and Clec16a Function in a Pathway Regulating Mitophagy in Î²-Cells. Diabetes, 2015, 64, 3475-3484.	0.3	66
43	Defects in mitochondrial DNA replication and oxidative damage in muscle of mtDNA mutator mice. Free Radical Biology and Medicine, 2014, 75, 241-251.	1.3	53
44	Association of G-quadruplex forming sequences with human mtDNA deletion breakpoints. BMC Genomics, 2014, 15, 677.	1.2	91
45	The Diabetes Susceptibility Gene Clec16a Regulates Mitophagy. Cell, 2014, 157, 1577-1590.	13.5	166
46	Two-dimensional intact mitochondrial DNA agarose electrophoresis reveals the structural complexity of the mammalian mitochondrial genome. Nucleic Acids Research, 2013, 41, e58-e58.	6.5	58
47	Mitochondrial transcription factor A regulates mitochondrial transcription initiation, DNA packaging, and genome copy number. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2012, 1819, 921-929.	0.9	331
48	The Mitochondrial Transcription Factor TFAM Coordinates the Assembly of Multiple DNA Molecules into Nucleoid-like Structures. Molecular Biology of the Cell, 2007, 18, 3225-3236.	0.9	340
49	Human SCO1 and SCO2 have independent, cooperative functions in copper delivery to cytochrome c oxidase. Human Molecular Genetics, 2004, 13, 1839-1848.	1.4	203