Jonathan Wanagat

List of Publications by Year
in descending order

41 papers	2,593 citations	411340 20 h-index	371746 37 g-index
45 all docs	45 docs citations	45 times ranked	3975 citing authors

#	Article	IF	Citations
1	Long read mitochondrial genome sequencing using Cas9-guided adaptor ligation. Mitochondrion, 2022, 65, 176-183.	1.6	8
2	Mitochondrial DNA deletion mutations increase exponentially with age in human skeletal muscle. Aging Clinical and Experimental Research, 2021, 33, 1811-1820.	1.4	29
3	Quantitative immuno-mass spectrometry imaging of skeletal muscle dystrophin. Scientific Reports, 2021, 11, 1128.	1.6	13
4	Skeletal muscle mitochondrial DNA copy number and mitochondrial DNA deletion mutation frequency as predictors of physical performance in older men and women. GeroScience, 2021, 43, 1253-1264.	2.1	16
5	Assessing the reproducibility of labelled antibody binding in quantitative multiplexed immuno-mass spectrometry imaging. Analytical and Bioanalytical Chemistry, 2021, 413, 5509-5516.	1.9	4
6	Metformin Treatment in Old Rats and Effects on Mitochondrial Integrity. Rejuvenation Research, 2021, 24, 434-440.	0.9	4
7	Ageâ€induced mitochondrial DNA point mutations are inadequate to alter metabolic homeostasis in response to nutrient challenge. Aging Cell, 2020, 19, e13166.	3.0	5
8	Estrogen receptor Î± controls metabolism in white and brown adipocytes by regulating Polg1 and mitochondrial remodeling. Science Translational Medicine, 2020, 12, .	5.8	64
9	Comment on: â€œMitochondrial Mechanisms of Neuromuscular Junction Degeneration with Aging. Cells 2020, 9, 197â€. Cells, 2020, 9, 1796.	1.8	1
10	A wellâ€tolerated core needle muscle biopsy process suitable for children and adults. Muscle and Nerve, 2020, 62, 688-698.	1.0	20
11	Mitochondrial Dysfunction Is an Early Consequence of Partial or Complete Dystrophin Loss in mdx Mice. Frontiers in Physiology, 2020, 11, 690.	1.3	61
12	A novel approach to measure mitochondrial respiration in frozen biological samples. EMBO Journal, 2020, 39, e104073.	3.5	110
13	Enhanced Methods for Needle Biopsy and Cryopreservation of Skeletal Muscle in Older Adults. , 2020, 11, .		10
14	Mitochondrial DNA alterations in aged macrophage migration inhibitory factor-knockout mice. Mechanisms of Ageing and Development, 2019, 182, 111126.	2.2	2
15	Super-Resolution Reconstruction for Two- and Three-Dimensional LA-ICP-MS Bioimaging. Analytical Chemistry, 2019, 91, 14879-14886.	3.2	26
16	Increased burden of mitochondrial DNA deletions and point mutations in early-onset age-related hearing loss in mitochondrial mutator mice. Experimental Gerontology, 2019, 125, 110675.	1.2	17
17	Long term rapamycin treatment improves mitochondrial DNA quality in aging mice. Experimental Gerontology, 2018, 106, 125-131.	1.2	22
18	Digital PCR Quantitation of Muscle Mitochondrial DNA: Age, Fiber Type, and Mutation-Induced Changes. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2017, 72, 1327-1333.	1.7	21

#	Article	IF	Citations
19	Latent mitochondrial <scp>DNA</scp> deletion mutations drive muscle fiber loss at old age. Aging Cell, 2016, 15, 1132-1139.	3.0	51
20	Skeletal muscle action of estrogen receptor Î± is critical for the maintenance of mitochondrial function and metabolic homeostasis in females. Science Translational Medicine, 2016, 8, 334ra54.	5.8	174
21	Mitochondrial quality control in insulin resistance and diabetes. Current Opinion in Genetics and Development, 2016, 38, 118-126.	1.5	21
22	Skeletal muscle mitochondrial DNA deletions are not increased in CuZn-superoxide dismutase deficient mice. Experimental Gerontology, 2015, 61, 15-19.	1.2	18
23	Single Cell Multiplex Protein Measurements through Rare Earth Element Immunolabeling, Laser Capture Microdissection and Inductively Coupled Mass Spectrometry. Journal of Cytology & Histology, 2014, 05, .	0.1	0
24	HSP72 Is a Mitochondrial Stress Sensor Critical for Parkin Action, Oxidative Metabolism, and Insulin Sensitivity in Skeletal Muscle. Diabetes, 2014, 63, 1488-1505.	0.3	108
25	Divergent Mitochondrial Biogenesis Responses in Human Cardiomyopathy. Circulation, 2013, 127, 1957-1967.	1.6	76
26	Mitochondrial oxidative stress and mammalian healthspan. Mechanisms of Ageing and Development, 2010, 131, 527-535.	2.2	49
27	Generation, function, and prognostic utility of somatic mitochondrial DNA mutations in cancer. Environmental and Molecular Mutagenesis, 2010, 51, 427-439.	0.9	19
28	A Mitochondrial view of aging, reactive oxygen species and metastatic cancer. Aging Cell, 2010, 9, 462-465.	3.0	31
29	Ageâ€dependent cardiomyopathy in mitochondrial mutator mice is attenuated by overexpression of catalase targeted to mitochondria. Aging Cell, 2010, 9, 536-544.	3.0	242
30	Comparative Skeletal Muscle Aging. , 2010, , 287-317.		3
31	On Mitochondria, Mutations, and Methodology. Cell Metabolism, 2009, 10, 437.	7.2	18
32	DNA deletions and clonal mutations drive premature aging in mitochondrial mutator mice. Nature Genetics, 2008, 40, 392-394.	9.4	360
33	Adult-onset calorie restriction delays the accumulation of mitochondrial enzyme abnormalities in aging rat kidney tubular epithelial cells. American Journal of Physiology - Renal Physiology, 2007, 292, F1751-F1760.	1.3	53
34	Age-related changes in cardiac structure and function in Fischer 344 Ã— Brown Norway hybrid rats. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 290, H304-H311.	1.5	78
35	Mitochondrial abnormalities are more frequent in muscles undergoing sarcopenia. Journal of Applied Physiology, 2002, 92, 2617-2624.	1.2	191
36	Age-associated Changes in Function, Structure and Mitochondrial Genetic and Enzymatic Abnormalities in the Fischer 344Ã—Brown Norway F1Hybrid Rat Heart. Journal of Molecular and Cellular Cardiology, 2002, 34, 17-28.	0.9	59

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37	Mitochondrial DNA deletion mutations. FEBS Journal, 2002, 269, 2010-2015.	0.2	113
38	Mitochondrial DNA deletion mutations colocalize with segmental electron transport system abnormalities, muscle fiber atrophy, fiber splitting, and oxidative damage in sarcopenia. FASEB Journal, 2001, 15, 322-332.	0.2	340
39	Mitochondrial DNA deletion mutations are concomitant with ragged red regions of individual, aged muscle fibers: analysis by laser-capture microdissection. Nucleic Acids Research, 2001, 29, 4502-4508.	6.5	153
40	Segmental Nature of Age-Associated, Skeletal Muscle Mitochondrial Abnormalities Necessitates Three-Dimensional Analyses. Rejuvenation Research, 1999, 2, 231-241.	0.2	3
41	Mitochondrial Mutagenesis in Aging and Disease. , 0, , .		0