Morten Scheibye-Knudsen

List of Publications by Year
in descending order

67 papers	7,835 citations	94433 37 h-index	118850 62 g-index
75 all docs	75 docs citations	75 times ranked	11492 citing authors

#	Article	IF	Citations
1	Metformin improves healthspan and lifespan in mice. Nature Communications, 2013, 4, 2192.	12.8	1,118
2	Defective Mitophagy in XPA via PARP-1 Hyperactivation and NAD+/SIRT1 Reduction. Cell, 2014, 157, 882-896.	28.9	554
3	NAD + Replenishment Improves Lifespan and Healthspan in Ataxia Telangiectasia Models via Mitophagy and DNA Repair. Cell Metabolism, 2016, 24, 566-581.	16.2	420
4	A research agenda for aging in China in the 21st century. Ageing Research Reviews, 2015, 24, 197-205.	10.9	374
5	Effects of Sex, Strain, and Energy Intake on Hallmarks of Aging in Mice. Cell Metabolism, 2016, 23, 1093-1112.	16.2	360
6	A High-Fat Diet and NAD + Activate Sirt1 to Rescue Premature Aging in Cockayne Syndrome. Cell Metabolism, 2014, 20, 840-855.	16.2	306
7	Nuclear DNA damage signalling to mitochondria in ageing. Nature Reviews Molecular Cell Biology, 2016, 17, 308-321.	37.0	294
8	DNA Damage, DNA Repair, Aging, and Neurodegeneration. Cold Spring Harbor Perspectives in Medicine, 2015, 5, a025130.	6.2	285
9	Mitophagy in neurodegeneration and aging. Neurochemistry International, 2017, 109, 202-209.	3.8	272
10	Protecting the mitochondrial powerhouse. Trends in Cell Biology, 2015, 25, 158-170.	7.9	260
11	SRT1720 improves survival and healthspan of obese mice. Scientific Reports, 2011, 1, 70.	3.3	249
12	Mitophagy and Neuroprotection. Trends in Molecular Medicine, 2020, 26, 8-20.	6.7	246
13	Animal Models of Aging Research: Implications for Human Aging and Age-Related Diseases. Annual Review of Animal Biosciences, 2015, 3, 283-303.	7.4	233
14	<scp>SRT</scp> 2104 extends survival of male mice on a standard diet and preserves bone and muscle mass. Aging Cell, 2014, 13, 787-796.	6.7	208
15	Senescent cells promote tissue NAD+ decline during ageing via the activation of CD38+ macrophages. Nature Metabolism, 2020, 2, 1265-1283.	11.9	206
16	Cockayne syndrome: Clinical features, model systems and pathways. Ageing Research Reviews, 2017, 33, 3-17.	10.9	184
17	3â€Hydroxybutyrate regulates energy metabolism and induces <scp>BDNF</scp> expression in cerebral cortical neurons. Journal of Neurochemistry, 2016, 139, 769-781.	3.9	179
18	Cockayne syndrome group B protein prevents the accumulation of damaged mitochondria by promoting mitochondrial autophagy. Journal of Experimental Medicine, 2012, 209, 855-869.	8.5	177

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19	Population Specific Biomarkers of Human Aging: A Big Data Study Using South Korean, Canadian, and Eastern European Patient Populations. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2018, 73, 1482-1490.	3.6	133
20	Artificial intelligence for aging and longevity research: Recent advances and perspectives. Ageing Research Reviews, 2019, 49, 49-66.	10.9	129
21	Cockayne syndrome group B protein promotes mitochondrial DNA stability by supporting the DNA repair association with the mitochondrial membrane. FASEB Journal, 2010, 24, 2334-2346.	0.5	124
22	Tomatidine enhances lifespan and healthspan in C. elegans through mitophagy induction via the SKN-1/Nrf2 pathway. Scientific Reports, 2017, 7, 46208.	3.3	116
23	Negative Regulation of STAT3 Protein-mediated Cellular Respiration by SIRT1 Protein. Journal of Biological Chemistry, 2011, 286, 19270-19279.	3.4	115
24	MitophAging: Mitophagy in Aging and Disease. Frontiers in Cell and Developmental Biology, 2020, 8, 239.	3.7	87
25	Protecting the Aging Genome. Trends in Cell Biology, 2020, 30, 117-132.	7.9	84
26	Cockayne syndrome group A and B proteins converge on transcription-linked resolution of non-B DNA. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 12502-12507.	7.1	72
27	Mitochondrial deficiency in Cockayne syndrome. Mechanisms of Ageing and Development, 2013, 134, 275-283.	4.6	66
28	Blood Biochemistry Analysis to Detect Smoking Status and Quantify Accelerated Aging in Smokers. Scientific Reports, 2019, 9, 142.	3.3	63
29	Vive la radiorÃ©sistance!: converging research in radiobiology and biogerontology to enhance human radioresistance for deep space exploration and colonization. Oncotarget, 2018, 9, 14692-14722.	1.8	62
30	Cytochrome b5 reductase and the control of lipid metabolism and healthspan. Npj Aging and Mechanisms of Disease, 2016, 2, 16006.	4.5	57
31	A novel diagnostic tool reveals mitochondrial pathology in human diseases and aging. Aging, 2013, 5, 192-208.	3.1	53
32	Long-Term Artificial Sweetener Acesulfame Potassium Treatment Alters Neurometabolic Functions in C57BL/6J Mice. PLoS ONE, 2013, 8, e70257.	2.5	50
33	Monogenic Diseases of DNA Repair. New England Journal of Medicine, 2017, 377, 1868-1876.	27.0	49
34	Sporadic Alzheimer disease fibroblasts display an oxidative stress phenotype. Free Radical Biology and Medicine, 2012, 53, 1371-1380.	2.9	47
35	Di-(2-ethylhexyl) phthalate inhibits DNA replication leading to hyperPARylation, SIRT1 attenuation and mitochondrial dysfunction in the testis. Scientific Reports, 2014, 4, 6434.	3.3	47
36	A cross-sectional study of functional and metabolic changes during aging through the lifespan in male mice. ELife, 2021, 10, .	6.0	47

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37	Mitochondrial base excision repair assays. Methods, 2010, 51, 416-425.	3.8	42
38	Human Exonuclease 1 (EXO1) Regulatory Functions in DNA Replication with Putative Roles in Cancer. International Journal of Molecular Sciences, 2019, 20, 74.	4.1	41
39	Contribution of defective mitophagy to the neurodegeneration in DNA repair-deficient disorders. Autophagy, 2014, 10, 1468-1469.	9.1	39
40	Overexpression of DNA ligase III in mitochondria protects cells against oxidative stress and improves mitochondrial DNA base excision repair. DNA Repair, 2014, 16, 44-53.	2.8	37
41	Regulation of mitochondrial respiration by inorganic phosphate; comparing permeabilized muscle fibers and isolated mitochondria prepared from type-1 and type-2 rat skeletal muscle. European Journal of Applied Physiology, 2009, 105, 279-287.	2.5	36
42	Lamin A/C promotes DNA base excision repair. Nucleic Acids Research, 2019, 47, 11709-11728.	14.5	35
43	ARDD 2020: from aging mechanisms to interventions. Aging, 2020, 12, 24484-24503.	3.1	32
44	A ketogenic diet accelerates neurodegeneration in mice with induced mitochondrial DNA toxicity in the forebrain. Neurobiology of Aging, 2016, 48, 34-47.	3.1	30
45	Aging and drug discovery. Aging, 2018, 10, 3079-3088.	3.1	25
46	Changed mitochondrial function by pre- and/or postpartum diet alterations in sheep. American Journal of Physiology - Endocrinology and Metabolism, 2009, 297, E1349-E1357.	3.5	20
47	Loss of NEIL1 causes defects in olfactory function in mice. Neurobiology of Aging, 2015, 36, 1007-1012.	3.1	18
48	Clinical Trials Targeting Aging. Frontiers in Aging, 2022, 3, .	2.6	17
49	A defined human aging phenome. Aging, 2019, 11, 5786-5806.	3.1	16
50	Emerging Antitumor Activities of the Bitter Melon (Momordica charantia). Current Protein and Peptide Science, 2019, 20, 296-301.	1.4	15
51	Reduction of lamin B receptor levels by miR-340-5p disrupts chromatin, promotes cell senescence and enhances senolysis. Nucleic Acids Research, 2021, 49, 7389-7405.	14.5	14
52	A novel method for determining human ex vivo submaximal skeletal muscle mitochondrial function. Journal of Physiology, 2015, 593, 3991-4010.	2.9	13
53	Latest advances in aging research and drug discovery. Aging, 2019, 11, 9971-9981.	3.1	13
54	Longevity medicine: upskilling the physicians of tomorrow. The Lancet Healthy Longevity, 2021, 2, e187-e188.	4.6	11

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55	Inhibition of the neuromuscular acetylcholine receptor with atracurium activates FOXO/DAFâ€16â€induced longevity. Aging Cell, 2021, 20, e13381.	6.7	9
56	The Biarylpyrazole Compound AM251 Alters Mitochondrial Physiology via Proteolytic Degradation of ERRÎ±. Molecular Pharmacology, 2013, 83, 157-166.	2.3	8
57	Monogenic Diseases of DNA Repair. New England Journal of Medicine, 2018, 378, 491-492.	27.0	8
58	New methodologies in ageing research. Ageing Research Reviews, 2020, 62, 101094.	10.9	7
59	Meeting Report: Aging Research and Drug Discovery. Aging, 2022, 14, 530-543.	3.1	4
60	EX-vivo whole blood stimulation with A2E does not elicit an inflammatory cytokine response in patients with age-related macular degeneration. Scientific Reports, 2021, 11, 8226.	3.3	3
61	Deprogramming metabolism in pancreatic cancer with a bi-functional GPR55 inhibitor and biased Î²2 adrenergic agonist. Scientific Reports, 2022, 12, 3618.	3.3	3
62	Smoking causes early biological aging: a deep neural network analysis of common blood test results. , 2018, , .		1
63	S12.44 Mitochondrial function in lamb as a consequence of maternal caloric restriction during pregnancy and high-fat-high-carbohydrate diet post partum. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, S86.	1.0	0
64	A Grand Challenge in Aging Interventions: From Mice to Humans. Frontiers in Aging, 2020, 1, .	2.6	0
65	Cockayne syndrome group B protein prevents the accumulation of damaged mitochondria by promoting mitochondrial autophagy. Journal of Cell Biology, 2012, 197, i4-i4.	5.2	0
66	Rapamycin: Current and Future Uses. , 2013, , 239-247.		0
67	Xeroderma pigmentosum group A protein modulates mitophagy through regulation of mitochondrialâ€associated proteins. FASEB Journal, 2013, 27, lb468.	0.5	0