

Simon Melov

List of Publications by Year in descending order

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Version: 2024-02-01

99
papers

16,865
citations

19608

61
h-index

32761

100
g-index

108
all docs

108
docs citations

108
times ranked

19627
citing authors

#	ARTICLE	IF	CITATIONS
1	Dilated cardiomyopathy and neonatal lethality in mutant mice lacking manganese superoxide dismutase. <i>Nature Genetics</i> , 1995, 11, 376-381.	9.4	1,609
2	Oxygen sensitivity severely limits the replicative lifespan of murine fibroblasts. <i>Nature Cell Biology</i> , 2003, 5, 741-747.	4.6	1,003
3	Cellular Senescence Promotes Adverse Effects of Chemotherapy and Cancer Relapse. <i>Cancer Discovery</i> , 2017, 7, 165-176.	7.7	881
4	Extension of Life-Span with Superoxide Dismutase/Catalase Mimetics. <i>Science</i> , 2000, 289, 1567-1569.	6.0	876
5	Thermotolerance and extended life-span conferred by single-gene mutations and induced by thermal stress.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995, 92, 7540-7544.	3.3	814
6	From discoveries in ageing research to therapeutics for healthy ageing. <i>Nature</i> , 2019, 571, 183-192.	13.7	730
7	Mitochondrial disease in mouse results in increased oxidative stress. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 4820-4825.	3.3	576
8	Mitochondrial disease in superoxide dismutase 2 mutant mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 846-851.	3.3	535
9	Radicals r'aging. <i>Nature Genetics</i> , 1998, 19, 105-106.	9.4	496
10	A novel neurological phenotype in mice lacking mitochondrial manganese superoxide dismutase. <i>Nature Genetics</i> , 1998, 18, 159-163.	9.4	477
11	Analysis of global mRNA expression in human skeletal muscle during recovery from endurance exercise. <i>FASEB Journal</i> , 2005, 19, 1498-1500.	0.2	365
12	Cellular senescence: A link between cancer and age-related degenerative disease?. <i>Seminars in Cancer Biology</i> , 2011, 21, 354-9.	4.3	339
13	Genetic Correction of Huntington's Disease Phenotypes in Induced Pluripotent Stem Cells. <i>Cell Stem Cell</i> , 2012, 11, 253-263.	5.2	336
14	Endurance exercise rescues progeroid aging and induces systemic mitochondrial rejuvenation in mtDNA mutator mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 4135-4140.	3.3	313
15	Mitochondrial Oxidative Stress Causes Hyperphosphorylation of Tau. <i>PLoS ONE</i> , 2007, 2, e536.	1.1	291
16	Oxidative stress and aging: beyond correlation. <i>Aging Cell</i> , 2002, 1, 117-123.	3.0	281
17	Lifespan Extension and Rescue of Spongiform Encephalopathy in Superoxide Dismutase 2 Nullizygous Mice Treated with Superoxide Dismutaseâ€“Catalase Mimetics. <i>Journal of Neuroscience</i> , 2001, 21, 8348-8353.	1.7	280
18	Resistance Exercise Reverses Aging in Human Skeletal Muscle. <i>PLoS ONE</i> , 2007, 2, e465.	1.1	267

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19	Late-life rapamycin treatment reverses age-related heart dysfunction. <i>Aging Cell</i> , 2013, 12, 851-862.	3.0	258
20	Marked increase in the number and variety of mitochondrial DNA rearrangements in aging human skeletal muscle. <i>Nucleic Acids Research</i> , 1995, 23, 4122-4126.	6.5	256
21	SOD2 in mitochondrial dysfunction and neurodegeneration. <i>Free Radical Biology and Medicine</i> , 2013, 62, 4-12.	1.3	254
22	Massage Therapy Attenuates Inflammatory Signaling After Exercise-Induced Muscle Damage. <i>Science Translational Medicine</i> , 2012, 4, 119ra13.	5.8	223
23	Mitochondrial oxidative stress caused by Sod2 deficiency promotes cellular senescence and aging phenotypes in the skin. <i>Aging</i> , 2012, 4, 3-12.	1.4	215
24	Medical research: Treat ageing. <i>Nature</i> , 2014, 511, 405-407.	13.7	211
25	On the Programmed/Non-Programmed Nature of Ageing within the Life History. <i>Current Biology</i> , 2011, 21, R701-R707.	1.8	193
26	Analysis of individual cells identifies cell-to-cell variability following induction of cellular senescence. <i>Aging Cell</i> , 2017, 16, 1043-1050.	3.0	182
27	Endogenous mitochondrial oxidative stress: neurodegeneration, proteomic analysis, specific respiratory chain defects, and efficacious antioxidant therapy in superoxide dismutase 2 null mice. <i>Journal of Neurochemistry</i> , 2003, 88, 657-667.	2.1	170
28	Pharmacogenetic Analysis of Lithium-induced Delayed Aging in <i>Caenorhabditis elegans</i> . <i>Journal of Biological Chemistry</i> , 2008, 283, 350-357.	1.6	166
29	Suppressors of Superoxide-H ₂ O ₂ Production at Site I Q of Mitochondrial Complex I Protect against Stem Cell Hyperplasia and Ischemia-Reperfusion Injury. <i>Cell Metabolism</i> , 2016, 24, 582-592.	7.2	162
30	Selective binding of nuclear alpha-synuclein to the PGC1alpha promoter under conditions of oxidative stress may contribute to losses in mitochondrial function: Implications for Parkinson's disease. <i>Free Radical Biology and Medicine</i> , 2012, 53, 993-1003.	1.3	152
31	Intramyocellular Fatty-Acid Metabolism Plays a Critical Role in Mediating Responses to Dietary Restriction in <i>Drosophila melanogaster</i> . <i>Cell Metabolism</i> , 2012, 16, 97-103.	7.2	147
32	Limb Immobilization Induces a Coordinate Down-Regulation of Mitochondrial and Other Metabolic Pathways in Men and Women. <i>PLoS ONE</i> , 2009, 4, e6518.	1.1	147
33	Genome-wide DNA methylation changes with age in disease-free human skeletal muscle. <i>Aging Cell</i> , 2014, 13, 360-366.	3.0	145
34	Mitochondrial Oxidative Stress: Physiologic Consequences and Potential for a Role in Aging. <i>Annals of the New York Academy of Sciences</i> , 2000, 908, 219-225.	1.8	137
35	Loss of intestinal nuclei and intestinal integrity in aging <i>C. elegans</i> . <i>Aging Cell</i> , 2011, 10, 699-710.	3.0	135
36	Alzheimer disease β -amyloid activity mimics cholesterol oxidase. <i>Journal of Clinical Investigation</i> , 2005, 115, 2556-2563.	3.9	125

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37	Life Span Extension via eIF4G Inhibition Is Mediated by Posttranscriptional Remodeling of Stress Response Gene Expression in <i>C.Âlegans</i> . <i>Cell Metabolism</i> , 2011, 14, 55-66.	7.2	124
38	Genomic Analysis Reveals Disruption of Striatal Neuronal Development and Therapeutic Targets in Human Huntingtongâ€™s Disease Neural Stem Cells. <i>Stem Cell Reports</i> , 2015, 5, 1023-1038.	2.3	117
39	Global and targeted gene expression and protein content in skeletal muscle of young men following short-term creatine monohydrate supplementation. <i>Physiological Genomics</i> , 2008, 32, 219-228.	1.0	116
40	Insulin-like Signaling Determines Survival during Stress via Posttranscriptional Mechanisms in <i>C. elegans</i> . <i>Cell Metabolism</i> , 2010, 12, 260-272.	7.2	113
41	Increased frequency of deletions in the mitochondrial genome with age of <i>Caenorhabditis elegans</i> . <i>Nucleic Acids Research</i> , 1995, 23, 1419-1425.	6.5	110
42	Multi-Organ Characterization of Mitochondrial Genomic Rearrangements in Ad Libitum and Caloric Restricted Mice Show Striking Somatic Mitochondrial DNA Rearrangements with Age. <i>Nucleic Acids Research</i> , 1997, 25, 974-982.	6.5	110
43	A Human Protein Interaction Network Shows Conservation of Aging Processes between Human and Invertebrate Species. <i>PLoS Genetics</i> , 2009, 5, e1000414.	1.5	106
44	Mitochondrial biology, degenerative diseases and aging. <i>BioFactors</i> , 1998, 7, 187-190.	2.6	105
45	Mitochondrial DNA mutations, oxidative stress, and aging. <i>Mechanisms of Ageing and Development</i> , 2001, 122, 1577-1589.	2.2	103
46	Mitochondrial oxidative stress causes chromosomal instability of mouse embryonic fibroblasts. <i>Aging Cell</i> , 2003, 2, 277-285.	3.0	99
47	Modeling mitochondrial function in aging neurons. <i>Trends in Neurosciences</i> , 2004, 27, 601-606.	4.2	95
48	Adrenergic Receptors in Individual Ventricular Myocytes. <i>Circulation Research</i> , 2017, 120, 1103-1115.	2.0	95
49	Animal models of oxidative stress, aging, and therapeutic antioxidant interventions. <i>International Journal of Biochemistry and Cell Biology</i> , 2002, 34, 1395-1400.	1.2	90
50	Microarray analysis of gene expression with age in individual nematodes. <i>Aging Cell</i> , 2004, 3, 111-124.	3.0	90
51	mTORC1 Activation during Repeated Regeneration Impairs Somatic Stem Cell Maintenance. <i>Cell Stem Cell</i> , 2017, 21, 806-818.e5.	5.2	87
52	Applied Proteomics. <i>Circulation Research</i> , 2002, 90, 380-389.	2.0	81
53	Mouse models of mitochondrial disease, oxidative stress, and senescence. <i>Mutation Research DNA Repair</i> , 1999, 434, 233-242.	3.8	80
54	Mice transgenic for Alzheimer disease β -amyloid develop lens cataracts that are rescued by antioxidant treatment. <i>Free Radical Biology and Medicine</i> , 2005, 38, 258-261.	1.3	77

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55	Pol II "Expressed shRNA Knocks Down Sod2 Gene Expression and Causes Phenotypes of the Gene Knockout in Mice. <i>PLoS Genetics</i> , 2006, 2, e10.	1.5	75
56	Detection of deletions in the mitochondrial genome of <i>Caenorhabditis elegans</i> . <i>Nucleic Acids Research</i> , 1994, 22, 1075-1078.	6.5	73
57	Age-related behaviors have distinct transcriptional profiles in <i>Caenorhabditis elegans</i> . <i>Aging Cell</i> , 2008, 7, 850-865.	3.0	70
58	The garlic constituent diallyl trisulfide increases the lifespan of <i>C. elegans</i> via <i>skn-1</i> activation. <i>Experimental Gerontology</i> , 2011, 46, 441-452.	1.2	69
59	Pleiotropic age-dependent effects of mitochondrial dysfunction on epidermal stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 10407-10412.	3.3	67
60	Therapeutics against Mitochondrial Oxidative Stress in Animal Models of Aging. <i>Annals of the New York Academy of Sciences</i> , 2002, 959, 330-340.	1.8	65
61	Translational Geroscience: Emphasizing function to achieve optimal longevity. <i>Aging</i> , 2014, 6, 718-730.	1.4	65
62	Science fact and the SENS agenda. <i>EMBO Reports</i> , 2005, 6, 1006-1008.	2.0	61
63	Mitochondrial Reactive Oxygen Species in Mice Lacking Superoxide Dismutase 2. <i>Journal of Biological Chemistry</i> , 2006, 281, 3354-3359.	1.6	58
64	Expression patterns of cardiac aging in <i>Drosophila</i> . <i>Aging Cell</i> , 2017, 16, 82-92.	3.0	50
65	Increase in mitochondrial biogenesis, oxidative stress, and glycolysis in murine lymphomas. <i>Free Radical Biology and Medicine</i> , 2009, 46, 387-396.	1.3	48
66	Nigrostriatal Dopaminergic Neurodegeneration in the Weaver Mouse Is Mediated via Neuroinflammation and Alleviated by Minocycline Administration. <i>Journal of Neuroscience</i> , 2006, 26, 11644-11651.	1.7	47
67	Dramatic age-related changes in nuclear and genome copy number in the nematode <i>Caenorhabditis elegans</i> . <i>Aging Cell</i> , 2007, 6, 179-188.	3.0	45
68	Eccentric Exercise Activates Novel Transcriptional Regulation of Hypertrophic Signaling Pathways Not Affected by Hormone Changes. <i>PLoS ONE</i> , 2010, 5, e10695.	1.1	39
69	Impaired spare respiratory capacity in cortical synaptosomes from <i>Sod2</i> null mice. <i>Free Radical Biology and Medicine</i> , 2011, 50, 866-873.	1.3	34
70	Human Embryonic Stem Cells Express Elevated Levels of Multiple Pro-Apoptotic BCL-2 Family Members. <i>PLoS ONE</i> , 2011, 6, e28530.	1.1	34
71	<i>cep-1/p53</i> -dependent dysplastic pathology of the aging <i>C. elegans</i> gonad. <i>Aging</i> , 2012, 4, 256-269.	1.4	34
72	Gene expression profiling in mitochondrial disease: assessment of microarray accuracy by high-throughput Q-PCR. <i>Mitochondrion</i> , 2004, 4, 453-470.	1.6	29

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73	Age-related micro-RNA abundance in individual <i>C. elegans</i> . <i>Aging</i> , 2013, 5, 394-411.	1.4	29
74	No Consistent Bioenergetic Defects in Presynaptic Nerve Terminals Isolated from Mouse Models of Alzheimer's Disease. <i>Journal of Neuroscience</i> , 2012, 32, 16775-16784.	1.7	27
75	Microarrays as a Tool to Investigate the Biology of Aging: A Retrospective and a Look to the Future. <i>Science of Aging Knowledge Environment: SAGE KE</i> , 2004, 2004, re7-re7.	0.9	26
76	â€ˆâ€ˆ and C is for Clioquinolâ€™â€™ the A β 2Cs of Alzheimer's disease. <i>Trends in Neurosciences</i> , 2002, 25, 121-123.	1.2	23
77	Microarray analysis of variation in individual aging <i>C. elegans</i> : Approaches and challenges. <i>Experimental Gerontology</i> , 2006, 41, 1040-1045.	1.2	22
78	Geroscience approaches to increase healthspan and slow aging. <i>F1000Research</i> , 2016, 5, 785.	0.8	21
79	Long-term calorie restriction in humans is not associated with indices of delayed immunologic aging: A descriptive study. <i>Nutrition and Healthy Aging</i> , 2017, 4, 147-156.	0.5	20
80	Tumor Necrosis Factor Alpha-Mediated Inflammation and Remodeling of the Extracellular Matrix Underlies Aortic Stiffening Induced by the Common Chemotherapeutic Agent Doxorubicin. <i>Hypertension</i> , 2021, 77, 1581-1590.	1.3	20
81	Senolysis induced by 25-hydroxycholesterol targets CRYAB in multiple cell types. <i>IScience</i> , 2022, 25, 103848.	1.9	17
82	Proteogenomics of synaptosomal mitochondrial oxidative stress. <i>Free Radical Biology and Medicine</i> , 2012, 53, 1048-1060.	1.3	16
83	Superoxide produced by mitochondrial site IQ inactivates cardiac succinate dehydrogenase and induces hepatic steatosis in Sod2 knockout mice. <i>Free Radical Biology and Medicine</i> , 2021, 164, 223-232.	1.3	14
84	Hyperplasia, reduced E-cadherin expression, and developmental arrest in mammary glands oxidatively stressed by loss of mitochondrial superoxide dismutase. <i>Breast</i> , 2005, 14, 256-263.	0.9	13
85	Single Cell Transcriptional Profiling of Adult Mouse Cardiomyocytes. <i>Journal of Visualized Experiments</i> , 2011, , e3302.	0.2	13
86	Dietary restriction and the transcription factor clock delay eye aging to extend lifespan in <i>Drosophila Melanogaster</i> . <i>Nature Communications</i> , 2022, 13, .	5.8	12
87	Microscale fractionation facilitates detection of differentially expressed proteins in Alzheimer's disease brain samples. <i>Electrophoresis</i> , 2004, 25, 2557-2563.	1.3	10
88	Accelerated aging of the brain transcriptome by the common chemotherapeutic doxorubicin. <i>Experimental Gerontology</i> , 2021, 152, 111451.	1.2	9
89	Single cell gene expression profiling of cortical osteoblast lineage cells. <i>Bone</i> , 2013, 53, 174-181.	1.4	8
90	Longitudinal Functional Study of Murine Aging: A Resource for Future Study Designs. <i>JBMR Plus</i> , 2021, 5, e10466.	1.3	8

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91	Pharmacogenomic profiling of an oxidative stress-mediated spongiform encephalopathy. <i>Free Radical Biology and Medicine</i> , 2005, 39, 152-163.	1.3	7
92	Biomarker Discovery and Analysis Platform: Application to Alzheimer's Disease. <i>BioTechniques</i> , 2005, 39, 606-607.	0.8	4
93	Spotlight on Nematode Mitochondria in RNAi Mega-Screen. <i>Science of Aging Knowledge Environment: SAGE KE</i> , 2002, 2002, 18pe-18.	0.9	3
94	Uncovering the Dark Energy of Aging. <i>Cell Systems</i> , 2016, 3, 328-330.	2.9	2
95	The Buck Institute for Age Research. <i>Experimental Gerontology</i> , 2001, 36, 205-208.	1.2	1
96	Response by Simpson et al to Letter Regarding Article, "Adrenergic Receptors in Individual Ventricular Myocytes: the Beta-1 and Alpha-1B Are in All Cells, the Alpha-1A Is in a Subpopulation, and the Beta-2 and Beta-3 Are Mostly Absent". <i>Circulation Research</i> , 2017, 120, e56-e57.	2.0	1
97	Free Radicals and Antioxidants in Otolaryngology. <i>Otolaryngology - Head and Neck Surgery</i> , 1996, 115, P157-P157.	1.1	0
98	Proteomic Analysis of Mitochondrial Proteins. <i>International Review of Neurobiology</i> , 2004, 61, 31-48.	0.9	0
99	Animal Models of Oxidative Stress and Aging. , 2003, , .		0