# Simon Melov

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1703044/publications.pdf

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|---|---|---|---|
| 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 | Senolysis induced by 25-hydroxycholesterol targets CRYAB in multiple cell types. IScience, 2022, 25, 103848. | 1.9 | 17 |
| 2 | Dietary restriction and the transcription factor clock delay eye aging to extend lifespan in Drosophila Melanogaster. Nature Communications, 2022, 13, . | 5.8 | 12 |
| 3 | Superoxide produced by mitochondrial site IQ inactivates cardiac succinate dehydrogenase and induces hepatic steatosis in Sod2 knockout mice. Free Radical Biology and Medicine, 2021, 164, 223-232. | 1.3 | 14 |
| 4 | Longitudinal Functional Study of Murine Aging: A Resource for Future Study Designs. JBMR Plus, 2021, 5, e10466. | 1.3 | 8 |
| 5 | Tumor Necrosis Factor Alpha-Mediated Inflammation and Remodeling of the Extracellular Matrix Underlies Aortic Stiffening Induced by the Common Chemotherapeutic Agent Doxorubicin. Hypertension, 2021, 77, 1581-1590. | 1.3 | 20 |
| 6 | Accelerated aging of the brain transcriptome by the common chemotherapeutic doxorubicin. Experimental Gerontology, 2021, 152, 111451. | 1.2 | 9 |
| 7 | From discoveries in ageing research to therapeutics for healthy ageing. Nature, 2019, 571, 183-192. | 13.7 | 730 |
| 8 | Expression patterns of cardiac aging in Drosophila. Aging Cell, 2017, 16, 82-92. | 3.0 | 50 |
| 9 | Adrenergic Receptors in Individual Ventricular Myocytes. Circulation Research, 2017, 120, 1103-1115. | 2.0 | 95 |
| 10 | Long-term calorie restriction in humans is not associated with indices of delayed immunologic aging: A descriptive study. Nutrition and Healthy Aging, 2017, 4, 147-156. | 0.5 | 20 |
| 11 | Response by Simpson et al to Letter Regarding Article, â€œAdrenergic 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 Absentâ€• Circulation Research, 2017, 120, e56-e57. | 2.0 | 1 |
| 12 | Cellular Senescence Promotes Adverse Effects of Chemotherapy and Cancer Relapse. Cancer Discovery, 2017, 7, 165-176. | 7.7 | 881 |
| 13 | Analysis of individual cells identifies cellâ€toâ€cell variability following induction of cellular senescence. Aging Cell, 2017, 16, 1043-1050. | 3.0 | 182 |
| 14 | mTORC1 Activation during Repeated Regeneration Impairs Somatic Stem Cell Maintenance. Cell Stem Cell, 2017, 21, 806-818.e5. | 5.2 | 87 |
| 15 | Uncovering the Dark Energy of Aging. Cell Systems, 2016, 3, 328-330. | 2.9 | 2 |
| 16 | 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. Cell Metabolism, 2016, 24, 582-592. | 7.2 | 162 |
| 17 | Geroscience approaches to increase healthspan and slow aging. F1000Research, 2016, 5, 785. | 0.8 | 21 |
| 18 | Genomic Analysis Reveals Disruption of Striatal Neuronal Development and Therapeutic Targets in Human Huntingtonâ€™s Disease Neural Stem Cells. Stem Cell Reports, 2015, 5, 1023-1038. | 2.3 | 117 |

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|---|---|---|---|
| 19 | Pleiotropic age-dependent effects of mitochondrial dysfunction on epidermal stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10407-10412. | 3.3 | 67 |
| 20 | Translational Geroscience: Emphasizing function to achieve optimal longevity. Aging, 2014, 6, 718-730. | 1.4 | 65 |
| 21 | Genomeâ€wide <scp>DNA</scp> methylation changes with age in diseaseâ€free human skeletal muscle. Aging Cell, 2014, 13, 360-366. | 3.0 | 145 |
| 22 | Medical research: Treat ageing. Nature, 2014, 511, 405-407. | 13.7 | 211 |
| 23 | Single cell gene expression profiling of cortical osteoblast lineage cells. Bone, 2013, 53, 174-181. | 1.4 | 8 |
| 24 | SOD2 in mitochondrial dysfunction and neurodegeneration. Free Radical Biology and Medicine, 2013, 62, 4-12. | 1.3 | 254 |
| 25 | Late-life rapamycin treatment reverses age-related heart dysfunction. Aging Cell, 2013, 12, 851-862. | 3.0 | 258 |
| 26 | Age-related micro-RNA abundance in individual C. elegans. Aging, 2013, 5, 394-411. | 1.4 | 29 |
| 27 | Massage Therapy Attenuates Inflammatory Signaling After Exercise-Induced Muscle Damage. Science Translational Medicine, 2012, 4, 119ra13. | 5.8 | 223 |
| 28 | Proteogenomics of synaptosomal mitochondrial oxidative stress. Free Radical Biology and Medicine, 2012, 53, 1048-1060. | 1.3 | 16 |
| 29 | No Consistent Bioenergetic Defects in Presynaptic Nerve Terminals Isolated from Mouse Models of Alzheimer's Disease. Journal of Neuroscience, 2012, 32, 16775-16784. | 1.7 | 27 |
| 30 | Genetic Correction of Huntington's Disease Phenotypes in Induced Pluripotent Stem Cells. Cell Stem Cell, 2012, 11, 253-263. | 5.2 | 336 |
| 31 | Intramyocellular Fatty-Acid Metabolism Plays a Critical Role in Mediating Responses to Dietary Restriction in Drosophila melanogaster. Cell Metabolism, 2012, 16, 97-103. | 7.2 | 147 |
| 32 | Selective binding of nuclear alpha-synuclein to the PGC1alpha promoter under conditions of oxidative stress may contribute to losses in mitochondrial function: Implications for Parkinsonâ€™s disease. Free Radical Biology and Medicine, 2012, 53, 993-1003. | 1.3 | 152 |
| 33 | Mitochondrial oxidative stress caused by Sod2 deficiency promotes cellular senescence and aging phenotypes in the skin. Aging, 2012, 4, 3-12. | 1.4 | 215 |
| 34 | cep-1/p53-dependent dysplastic pathology of the aging C. elegans gonad. Aging, 2012, 4, 256-269. | 1.4 | 34 |
| 35 | Endurance exercise rescues progeroid aging and induces systemic mitochondrial rejuvenation in mtDNA mutator mice. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 4135-4140. | 3.3 | 313 |
| 36 | Life Span Extension via eIF4G Inhibition Is Mediated by Posttranscriptional Remodeling of Stress Response Gene Expression in C.Âelegans. Cell Metabolism, 2011, 14, 55-66. | 7.2 | 124 |

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|---|---|---|---|
| 37 | Single Cell Transcriptional Profiling of Adult Mouse Cardiomyocytes. Journal of Visualized Experiments, 2011, , e3302. | 0.2 | 13 |
| 38 | Loss of intestinal nuclei and intestinal integrity in aging C.Âelegans. Aging Cell, 2011, 10, 699-710. | 3.0 | 135 |
| 39 | Cellular senescence: A link between cancer and age-related degenerative disease?. Seminars in Cancer Biology, 2011, 21, 354-9. | 4.3 | 339 |
| 40 | On the Programmed/Non-Programmed Nature of Ageing within the Life History. Current Biology, 2011, 21, R701-R707. | 1.8 | 193 |
| 41 | The garlic constituent diallyl trisulfide increases the lifespan of C. elegans via skn-1 activation. Experimental Gerontology, 2011, 46, 441-452. | 1.2 | 69 |
| 42 | Impaired spare respiratory capacity in cortical synaptosomes from Sod2 null mice. Free Radical Biology and Medicine, 2011, 50, 866-873. | 1.3 | 34 |
| 43 | Human Embryonic Stem Cells Express Elevated Levels of Multiple Pro-Apoptotic BCL-2 Family Members. PLoS ONE, 2011, 6, e28530. | 1.1 | 34 |
| 44 | Eccentric Exercise Activates Novel Transcriptional Regulation of Hypertrophic Signaling Pathways Not Affected by Hormone Changes. PLoS ONE, 2010, 5, e10695. | 1.1 | 39 |
| 45 | Insulin-like Signaling Determines Survival during Stress via Posttranscriptional Mechanisms in C. elegans. Cell Metabolism, 2010, 12, 260-272. | 7.2 | 113 |
| 46 | A Human Protein Interaction Network Shows Conservation of Aging Processes between Human and Invertebrate Species. PLoS Genetics, 2009, 5, e1000414. | 1.5 | 106 |
| 47 | Increase in mitochondrial biogenesis, oxidative stress, and glycolysis in murine lymphomas. Free Radical Biology and Medicine, 2009, 46, 387-396. | 1.3 | 48 |
| 48 | Limb Immobilization Induces a Coordinate Down-Regulation of Mitochondrial and Other Metabolic Pathways in Men and Women. PLoS ONE, 2009, 4, e6518. | 1.1 | 147 |
| 49 | Ageâ€related behaviors have distinct transcriptional profiles in CaenorhabditisÂelegans. Aging Cell, 2008, 7, 850-865. | 3.0 | 70 |
| 50 | Global and targeted gene expression and protein content in skeletal muscle of young men following short-term creatine monohydrate supplementation. Physiological Genomics, 2008, 32, 219-228. | 1.0 | 116 |
| 51 | Pharmacogenetic Analysis of Lithium-induced Delayed Aging in Caenorhabditis elegans. Journal of Biological Chemistry, 2008, 283, 350-357. | 1.6 | 166 |
| 52 | Resistance Exercise Reverses Aging in Human Skeletal Muscle. PLoS ONE, 2007, 2, e465. | 1.1 | 267 |
| 53 | Mitochondrial Oxidative Stress Causes Hyperphosphorylation of Tau. PLoS ONE, 2007, 2, e536. | 1.1 | 291 |
| 54 | Dramatic age-related changes in nuclear and genome copy number in the nematode Caenorhabditis elegans. Aging Cell, 2007, 6, 179-188. | 3.0 | 45 |

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|---|---|---|---|
| 55 | Microarray analysis of variation in individual aging C. elegans: Approaches and challenges. Experimental Gerontology, 2006, 41, 1040-1045. | 1.2 | 22 |
| 56 | Pol IIâ€“Expressed shRNA Knocks Down Sod2 Gene Expression and Causes Phenotypes of the Gene Knockout in Mice. PLoS Genetics, 2006, 2, e10. | 1.5 | 75 |
| 57 | Nigrostriatal Dopaminergic Neurodegeneration in the Weaver Mouse Is Mediated via Neuroinflammation and Alleviated by Minocycline Administration. Journal of Neuroscience, 2006, 26, 11644-11651. | 1.7 | 47 |
| 58 | Mitochondrial Reactive Oxygen Species in Mice Lacking Superoxide Dismutase 2. Journal of Biological Chemistry, 2006, 281, 3354-3359. | 1.6 | 58 |
| 59 | Science fact and the SENS agenda. EMBO Reports, 2005, 6, 1006-1008. | 2.0 | 61 |
| 60 | Hyperplasia, reduced E-cadherin expression, and developmental arrest in mammary glands oxidatively stressed by loss of mitochondrial superoxide dismutase. Breast, 2005, 14, 256-263. | 0.9 | 13 |
| 61 | Mice transgenic for Alzheimer disease ?-amyloid develop lens cataracts that are rescued by antioxidant treatment. Free Radical Biology and Medicine, 2005, 38, 258-261. | 1.3 | 77 |
| 62 | Pharmacogenomic profiling of an oxidative stress-mediated spongiform encephalopathy. Free Radical Biology and Medicine, 2005, 39, 152-163. | 1.3 | 7 |
| 63 | Biomarker Discovery and Analysis Platform: Application to Alzheimer's Disease. BioTechniques, 2005, 39, 606-607. | 0.8 | 4 |
| 64 | Analysis of global mRNA expression in human skeletal muscle during recovery from endurance exercise. FASEB Journal, 2005, 19, 1498-1500. | 0.2 | 365 |
| 65 | Alzheimer disease Î²-amyloid activity mimics cholesterol oxidase. Journal of Clinical Investigation, 2005, 115, 2556-2563. | 3.9 | 125 |
| 66 | Proteomic Analysis of Mitochondrial Proteins. International Review of Neurobiology, 2004, 61, 31-48. | 0.9 | 0 |
| 67 | Microarrays as a Tool to Investigate the Biology of Aging: A Retrospective and a Look to the Future. Science of Aging Knowledge Environment: SAGE KE, 2004, 2004, re7-re7. | 0.9 | 26 |
| 68 | Microarray analysis of gene expression with age in individual nematodes. Aging Cell, 2004, 3, 111-124. | 3.0 | 90 |
| 69 | Microscale fractionation facilitates detection of differentially expressed proteins in Alzheimer's disease brain samples. Electrophoresis, 2004, 25, 2557-2563. | 1.3 | 10 |
| 70 | Modeling mitochondrial function in aging neurons. Trends in Neurosciences, 2004, 27, 601-606. | 4.2 | 95 |
| 71 | Gene expression profiling in mitochondrial disease: assessment of microarray accuracy by high-throughput Q-PCR. Mitochondrion, 2004, 4, 453-470. | 1.6 | 29 |
| 72 | Endogenous mitochondrial oxidative stress: neurodegeneration, proteomic analysis, specific respiratory chain defects, and efficacious antioxidant therapy in superoxide dismutase 2 null mice. Journal of Neurochemistry, 2003, 88, 657-667. | 2.1 | 170 |

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|---|---|---|---|
| 73 | Mitochondrial oxidative stress causes chromosomal instability of mouse embryonic fibroblasts. Aging Cell, 2003, 2, 277-285. | 3.0 | 99 |
| 74 | Oxygen sensitivity severely limits the replicative lifespan of murine fibroblasts. Nature Cell Biology, 2003, 5, 741-747. | 4.6 | 1,003 |
| 75 | Animal Models of Oxidative Stress and Aging. , 2003, , . | | 0 |
| 76 | Applied Proteomics. Circulation Research, 2002, 90, 380-389. | 2.0 | 81 |
| 77 | Animal models of oxidative stress, aging, and therapeutic antioxidant interventions. International Journal of Biochemistry and Cell Biology, 2002, 34, 1395-1400. | 1.2 | 90 |
| 78 | â€¦â€¦and C is for Clioquinolâ€™ â€“ the AÎ²Cs of Alzheimer's disease. Trends in Neurosciences, 2002, 25, 121-123. | 1.2 | 23 |
| 79 | Oxidative stress and aging: beyond correlation. Aging Cell, 2002, 1, 117-123. | 3.0 | 281 |
| 80 | Therapeutics against Mitochondrial Oxidative Stress in Animal Models of Aging. Annals of the New York Academy of Sciences, 2002, 959, 330-340. | 1.8 | 65 |
| 81 | Spotlight on Nematode Mitochondria in RNAi Mega-Screen. Science of Aging Knowledge Environment: SAGE KE, 2002, 2002, 18pe-18. | 0.9 | 3 |
| 82 | Lifespan Extension and Rescue of Spongiform Encephalopathy in Superoxide Dismutase 2 Nullizygous Mice Treated with Superoxide Dismutaseâ€“Catalase Mimetics. Journal of Neuroscience, 2001, 21, 8348-8353. | 1.7 | 280 |
| 83 | Mitochondrial DNA mutations, oxidative stress, and aging. Mechanisms of Ageing and Development, 2001, 122, 1577-1589. | 2.2 | 103 |
| 84 | The Buck Institute for Age Research. Experimental Gerontology, 2001, 36, 205-208. | 1.2 | 1 |
| 85 | Extension of Life-Span with Superoxide Dismutase/Catalase Mimetics. Science, 2000, 289, 1567-1569. | 6.0 | 876 |
| 86 | Mitochondrial Oxidative Stress: Physiologic Consequences and Potential for a Role in Aging. Annals of the New York Academy of Sciences, 2000, 908, 219-225. | 1.8 | 137 |
| 87 | Mitochondrial disease in mouse results in increased oxidative stress. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 4820-4825. | 3.3 | 576 |
| 88 | Mitochondrial disease in superoxide dismutase 2 mutant mice. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 846-851. | 3.3 | 535 |
| 89 | Mouse models of mitochondrial disease, oxidative stress, and senescence. Mutation Research DNA Repair, 1999, 434, 233-242. | 3.8 | 80 |
| 90 | Mitochondrial biology, degenerative diseases and aging. BioFactors, 1998, 7, 187-190. | 2.6 | 105 |

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|---|---|---|---|
| 91 | A novel neurological phenotype in mice lacking mitochondrial manganese superoxide dismutase. Nature Genetics, 1998, 18, 159-163. | 9.4 | 477 |
| 92 | Radicals r'aging. Nature Genetics, 1998, 19, 105-106. | 9.4 | 496 |
| 93 | Multi-Organ Characterization of Mitochondrial Genomic Rearrangements in Ad Libitum and Caloric Restricted Mice Show Striking Somatic Mitochondrial DNA Rearrangements with Age. Nucleic Acids Research, 1997, 25, 974-982. | 6.5 | 110 |
| 94 | Free Radicals and Antioxidants in Otolaryngology. Otolaryngology - Head and Neck Surgery, 1996, 115, P157-P157. | 1.1 | 0 |
| 95 | Thermotolerance and extended life-span conferred by single-gene mutations and induced by thermal stress.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 7540-7544. | 3.3 | 814 |
| 96 | Dilated cardiomyopathy and neonatal lethality in mutant mice lacking manganese superoxide dismutase. Nature Genetics, 1995, 11, 376-381. | 9.4 | 1,609 |
| 97 | Marked increase in the number and variety of mitochondrial DNA rearrangements in aging human skeletal muscle. Nucleic Acids Research, 1995, 23, 4122-4126. | 6.5 | 256 |
| 98 | Increased frequency of deletions in the mitochondrial genome with age ofCaenorhabditis elegans. Nucleic Acids Research, 1995, 23, 1419-1425. | 6.5 | 110 |
| 99 | Detection of deletions in the mitochondrial genome ofCaenorhabditis elegans. Nucleic Acids Research, 1994, 22, 1075-1078. | 6.5 | 73 |