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List of Publications by Citations

73 papers	8,202 citations	39 h-index	85 g-index
85 ext. papers	10,901 ext. citations	10.3 avg, IF	6.18 L-index

#	Paper	IF	Citations
73	Cellular Senescence: Defining a Path Forward. *Cell*, **2019**, 179, 813-827	56.2	646
72	Cellular senescence mediates fibrotic pulmonary disease. *Nature Communications*, **2017**, 8, 14532	17.4	616
71	Feedback between p21 and reactive oxygen production is necessary for cell senescence. *Molecular Systems Biology*, **2010**, 6, 347	12.2	578
70	Telomeres are favoured targets of a persistent DNA damage response in ageing and stress-induced senescence. *Nature Communications*, **2012**, 3, 708	17.4	505
69	Mitochondrial dysfunction accounts for the stochastic heterogeneity in telomere-dependent senescence. *PLoS Biology*, **2007**, 5, e110	9.7	486
68	Chronic inflammation induces telomere dysfunction and accelerates ageing in mice. *Nature Communications*, **2014**, 2, 4172	17.4	455
67	Cellular senescence drives age-dependent hepatic steatosis. *Nature Communications*, **2017**, 8, 15691	17.4	408
66	Mitochondria are required for pro-ageing features of the senescent phenotype. *EMBO Journal*, **2016**, 35, 724-42	13	357
65	Senolytics decrease senescent cells in humans: Preliminary report from a clinical trial of Dasatinib plus Quercetin in individuals with diabetic kidney disease. *EBioMedicine*, **2019**, 47, 446-456	8.8	356
64	Telomerase does not counteract telomere shortening but protects mitochondrial function under oxidative stress. *Journal of Cell Science*, **2008**, 121, 1046-53	5.3	307
63	DNA damage in telomeres and mitochondria during cellular senescence: is there a connection?. *Nucleic Acids Research*, **2007**, 35, 7505-13	20.1	244
62	Downregulation of multiple stress defense mechanisms during differentiation of human embryonic stem cells. *Stem Cells*, **2008**, 26, 455-64	5.8	217
61	Quantitative assessment of markers for cell senescence. *Experimental Gerontology*, **2010**, 45, 772-8	4.5	175
60	Obesity-Induced Cellular Senescence Drives Anxiety and Impairs Neurogenesis. *Cell Metabolism*, **2019**, 29, 1061-1077.e8	24.6	161
59	Length-independent telomere damage drives post-mitotic cardiomyocyte senescence. *EMBO Journal*, **2019**, 38,	13	159
58	Mitochondrial inner membrane permeabilisation enables mtDNA release during apoptosis. *EMBO Journal*, **2018**, 37,	13	158
57	Stress, cell senescence and organismal ageing. *Mechanisms of Ageing and Development*, **2018**, 170, 2-9	5.6	152

56	Telomeres and Cell Senescence - Size Matters Not. *EBioMedicine*, **2017**, 21, 14-20	8.8	143
55	A Potent and Specific CD38 Inhibitor Ameliorates Age-Related Metabolic Dysfunction by Reversing Tissue NAD Decline. *Cell Metabolism*, **2018**, 27, 1081-1095.e10	24.6	135
54	Telomeres, oxidative stress and inflammatory factors: partners in cellular senescence?. *Longevity & Healthspan*, **2014**, 3, 1		114
53	Mitochondria, telomeres and cell senescence. *Experimental Gerontology*, **2005**, 40, 466-72	4.5	110
52	Mitochondrial dysfunction and cell senescence: deciphering a complex relationship. *FEBS Letters*, **2019**, 593, 1566-1579	3.8	104
51	Mitochondria: Are they causal players in cellular senescence?. *Biochimica Et Biophysica Acta - Bioenergetics*, **2015**, 1847, 1373-9	4.6	97
50	DNA damage response at telomeres contributes to lung aging and chronic obstructive pulmonary disease. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2015**, 309, L1124-37	5.8	93
49	Pharmacological clearance of senescent cells improves survival and recovery in aged mice following acute myocardial infarction. *Aging Cell*, **2019**, 18, e12945	9.9	85
48	Mitochondria-to-nucleus retrograde signaling drives formation of cytoplasmic chromatin and inflammation in senescence. *Genes and Development*, **2020**, 34, 428-445	12.6	83
47	Mitochondria, telomeres and cell senescence: Implications for lung ageing and disease. *Pharmacology & Therapeutics*, **2018**, 183, 34-49	13.9	81
46	Senescent human melanocytes drive skin ageing via paracrine telomere dysfunction. *EMBO Journal*, **2019**, 38, e101982	13	69
45	Mitochondria and ageing: winning and losing in the numbers game. *BioEssays*, **2007**, 29, 908-17	4.1	55
44	Senolytics prevent mt-DNA-induced inflammation and promote the survival of aged organs following transplantation. *Nature Communications*, **2020**, 11, 4289	17.4	55
43	Senolytic Drugs: Reducing Senescent Cell Viability to Extend Health Span. *Annual Review of Pharmacology and Toxicology*, **2021**, 61, 779-803	17.9	52
42	The innate immune sensor Toll-like receptor 2 controls the senescence-associated secretory phenotype. *Science Advances*, **2019**, 5, eaaw0254	14.3	48
41	Reducing Senescent Cell Burden in Aging and Disease. *Trends in Molecular Medicine*, **2020**, 26, 630-638	11.5	47
40	Whole-body senescent cell clearance alleviates age-related brain inflammation and cognitive impairment in mice. *Aging Cell*, **2021**, 20, e13296	9.9	47
39	A stochastic step model of replicative senescence explains ROS production rate in ageing cell populations. *PLoS ONE*, **2012**, 7, e32117	3.7	43

38	Expansion and Cell-Cycle Arrest: Common Denominators of Cellular Senescence. *Trends in Biochemical Sciences*, **2019**, 44, 996-1008	10.3	41
37	Premature senescence of mesothelial cells is associated with non-telomeric DNA damage. *Biochemical and Biophysical Research Communications*, **2007**, 362, 707-11	3.4	41
36	Targeted Reduction of Senescent Cell Burden Alleviates Focal Radiotherapy-Related Bone Loss. *Journal of Bone and Mineral Research*, **2020**, 35, 1119-1131	6.3	40
35	Mitochondrial dysfunction is a possible cause of accelerated senescence of mesothelial cells exposed to high glucose. *Biochemical and Biophysical Research Communications*, **2008**, 366, 793-9	3.4	38
34	Rapamycin improves healthspan but not inflammaging in nfB1 mice. *Aging Cell*, **2019**, 18, e12882	9.9	38
33	Targeting the SASP to combat ageing: Mitochondria as possible intracellular allies?. *BioEssays*, **2017**, 39, 1600235	4.1	37
32	Mitochondria and cellular senescence: Implications for musculoskeletal ageing. *Free Radical Biology and Medicine*, **2019**, 132, 3-10	7.8	37
31	Temporal inhibition of autophagy reveals segmental reversal of ageing with increased cancer risk. *Nature Communications*, **2020**, 11, 307	17.4	36
30	Cellular senescence: unravelling complexity. *Age*, **2009**, 31, 353-63		36
29	Depletion of mitochondria in mammalian cells through enforced mitophagy. *Nature Protocols*, **2017**, 12, 183-194	18.8	27
28	Clearance of senescent cells during cardiac ischemia-reperfusion injury improves recovery. *Aging Cell*, **2020**, 19, e13249	9.9	26
27	Neutrophils induce paracrine telomere dysfunction and senescence in ROS-dependent manner. *EMBO Journal*, **2021**, 40, e106048	13	26
26	Mechanisms driving the ageing heart. *Experimental Gerontology*, **2018**, 109, 5-15	4.5	25
25	Accelerated osteocyte senescence and skeletal fragility in mice with type 2 diabetes. *JCI Insight*, **2020**, 5,	9.9	25
24	Telomere Dysfunction and Senescence-associated Pathways in Bronchiectasis. *American Journal of Respiratory and Critical Care Medicine*, **2016**, 193, 929-32	10.2	24
23	The relationship between the aging- and photo-dependent T414G mitochondrial DNA mutation with cellular senescence and reactive oxygen species production in cultured skin fibroblasts. *Journal of Investigative Dermatology*, **2009**, 129, 1361-6	4.3	19
22	Mitochondrial dysfunction and cell senescence--skin deep into mammalian aging. *Aging*, **2012**, 4, 74-5	5.6	18
21	Anti-inflammatory treatment rescues memory deficits during aging in nfkb1 mice. *Aging Cell*, **2020**, 19, e13188	9.9	17

20	On the evolution of cellular senescence. *Aging Cell*, **2020**, 19, e13270	9.9	15
19	Measuring reactive oxygen species in senescent cells. *Methods in Molecular Biology*, **2013**, 965, 253-63	1.4	15
18	Reactive Oxygen Species Detection in Senescent Cells. *Methods in Molecular Biology*, **2019**, 1896, 21-29	1.4	15
17	Cytoplasmic DNA: sources, sensing, and role in aging and disease. *Cell*, **2021**, 184, 5506-5526	56.2	14
16	Therapeutic Potential of Senolytics in Cardiovascular Disease. *Cardiovascular Drugs and Therapy*, **2020**, 1	3.9	14
15	Detecting senescence: a new method for an old pigment. *Aging Cell*, **2017**, 16, 432-434	9.9	13
14	Telomere dysfunction in ageing and age-related diseases.. *Nature Cell Biology*, **2022**, 24, 135-147	23.4	12
13	Cell sorting of young and senescent cells. *Methods in Molecular Biology*, **2013**, 1048, 31-47	1.4	10
12	Robust multiparametric assessment of cellular senescence. *Methods in Molecular Biology*, **2013**, 965, 409-19	1.4	9
11	Cellular senescence: all roads lead to mitochondria.. *FEBS Journal*, **2022**,	5.7	6
10	Moderate Exercise Inhibits Age-Related Inflammation, Liver Steatosis, Senescence, and Tumorigenesis. *Journal of Immunology*, **2021**, 206, 904-916	5.3	6
9	Demystifying the role of mitochondria in senescence. *Molecular and Cellular Oncology*, **2016**, 3, e1162896	1.2	4
8	Telomeres: beacons of autocrine and paracrine DNA damage during skin aging. *Cell Cycle*, **2020**, 19, 532-540	4.4	3
7	Targeted clearance of p21- but not p16-positive senescent cells prevents radiation-induced osteoporosis and increased marrow adiposity.. *Aging Cell*, **2022**, e13602	9.9	3
6	Retrograde Response, Oxidative Stress, and Cellular Senescence **2008**, 39-52		2
5	Length-independent telomere damage drives cardiomyocyte senescence		1
4	Telomeres, Senescence, Oxidative Stress, and Heterogeneity **2008**, 43-56		1
3	Bone marrow adiposity in models of radiation- and aging-related bone loss is dependent on cellular senescence.. *Journal of Bone and Mineral Research*, **2022**,	6.3	1

2	Mitochondria: Potential Targets for Interventions to Counteract Senescence. *Healthy Ageing and Longevity*, **2020**, 201-222	0.5
1	Telomeres Shortening: A Mere Replicometer?. *Healthy Ageing and Longevity*, **2016**, 97-115	0.5