

James L Kirkland

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

106
papers

15,675
citations

51
h-index

118
g-index

118
ext. papers

21,030
ext. citations

9.9
avg. IF

6.91
L-index

#	Paper	IF	Citations
106	Senescence in obesity: causes and consequences 2022 , 289-308		0
105	Chronic HIV Infection and Aging: Application of a Geroscience-Guided Approach.. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , 2022 , 89, S34-S46	3.1	1
104	Orally-active, clinically-translatable senolytics restore Klotho in mice and humans.. <i>EBioMedicine</i> , 2022 , 103912	8.8	1
103	Targeted clearance of p21- but not p16-positive senescent cells prevents radiation-induced osteoporosis and increased marrow adiposity.. <i>Aging Cell</i> , 2022 , e13602	9.9	3
102	Palmitate induces DNA damage and senescence in human adipocytes in vitro that can be alleviated by oleic acid but not inorganic nitrate.. <i>Experimental Gerontology</i> , 2022 , 163, 111798	4.5	1
101	Selective Vulnerability of Senescent Glioblastoma Cells to Bcl-XL Inhibition.. <i>Molecular Cancer Research</i> , 2022 ,	6.6	4
100	Obesity, Senescence, and Senolytics. <i>Handbook of Experimental Pharmacology</i> , 2021 , 1	3.2	1
99	The flavonoid procyanidin C1 has senotherapeutic activity and increases lifespan in mice. <i>Nature Metabolism</i> , 2021 ,	14.6	14
98	Role of senescence in the chronic health consequences of COVID-19. <i>Translational Research</i> , 2021 ,	11	3
97	Targeting p21 highly expressing cells in adipose tissue alleviates insulin resistance in obesity. <i>Cell Metabolism</i> , 2021 ,	24.6	6
96	Antidiabetic Effects of the Senolytic Agent Dasatinib. <i>Mayo Clinic Proceedings</i> , 2021 , 96, 3021-3029	6.4	1
95	Strategies for Targeting Senescent Cells in Human Disease. <i>Nature Aging</i> , 2021 , 1, 870-879		19
94	An inducible -Cre mouse model to monitor and manipulate -highly-expressing senescent cells .. <i>Nature Aging</i> , 2021 , 1, 962-973		9
93	Strategies for late phase preclinical and early clinical trials of senolytics. <i>Mechanisms of Ageing and Development</i> , 2021 , 200, 111591	5.6	3
92	Senolytics: Potential for Alleviating Diabetes and Its Complications. <i>Endocrinology</i> , 2021 , 162,	4.8	9
91	Therapy-Induced Senescence: Opportunities to Improve Anticancer Therapy. <i>Journal of the National Cancer Institute</i> , 2021 , 113, 1285-1298	9.7	35
90	Diabetic Kidney Disease Alters the Transcriptome and Function of Human Adipose-Derived Mesenchymal Stromal Cells but Maintains Immunomodulatory and Paracrine Activities Important for Renal Repair. <i>Diabetes</i> , 2021 , 70, 1561-1574	0.9	5

89	KDM4 Orchestrates Epigenomic Remodeling of Senescent Cells and Potentiates the Senescence-Associated Secretory Phenotype. <i>Nature Aging</i> , 2021 , 1, 454-472		4
88	Senescent cells in human adipose tissue: A cross-sectional study. <i>Obesity</i> , 2021 , 29, 1320-1327	8	5
87	Senolytics reduce coronavirus-related mortality in old mice. <i>Science</i> , 2021 , 373,	33.3	60
86	Strategies to Prevent or Remediate Cancer and Treatment-Related Aging. <i>Journal of the National Cancer Institute</i> , 2021 , 113, 112-122	9.7	18
85	New Horizons: Novel Approaches to Enhance Healthspan Through Targeting Cellular Senescence and Related Aging Mechanisms. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2021 , 106, e1481-e1487	5.6	21
84	Mechanisms of vascular dysfunction in the interleukin-10-deficient murine model of preeclampsia indicate nitric oxide dysregulation. <i>Kidney International</i> , 2021 , 99, 646-656	9.9	3
83	Senolytic Drugs: Reducing Senescent Cell Viability to Extend Health Span. <i>Annual Review of Pharmacology and Toxicology</i> , 2021 , 61, 779-803	17.9	52
82	Whole-body senescent cell clearance alleviates age-related brain inflammation and cognitive impairment in mice. <i>Aging Cell</i> , 2021 , 20, e13296	9.9	47
81	Epigenetic and senescence markers indicate an accelerated ageing-like state in women with preeclamptic pregnancies. <i>EBioMedicine</i> , 2021 , 70, 103536	8.8	5
80	Fisetin for COVID-19 in skilled nursing facilities: Senolytic trials in the COVID era. <i>Journal of the American Geriatrics Society</i> , 2021 , 69, 3023-3033	5.6	9
79	Impact of Senescent Cell Subtypes on Tissue Dysfunction and Repair: Importance and Research Questions. <i>Mechanisms of Ageing and Development</i> , 2021 , 198, 111548	5.6	5
78	Frailty in CKD and Transplantation. <i>Kidney International Reports</i> , 2021 , 6, 2270-2280	4.1	5
77	SARS-CoV-2 causes senescence in human cells and exacerbates the senescence-associated secretory phenotype through TLR-3. <i>Aging</i> , 2021 , 13, 21838-21854	5.6	4
76	Partial inhibition of mitochondrial complex I ameliorates Alzheimer's disease pathology and cognition in APP/PS1 female mice. <i>Communications Biology</i> , 2021 , 4, 61	6.7	11
75	The role of cellular senescence in ageing and endocrine disease. <i>Nature Reviews Endocrinology</i> , 2020 , 16, 263-275	15.2	133
74	Transplanted senescent renal scattered tubular-like cells induce injury in the mouse kidney. <i>American Journal of Physiology - Renal Physiology</i> , 2020 , 318, F1167-F1176	4.3	15
73	Discovery, development, and future application of senolytics: theories and predictions. <i>FEBS Journal</i> , 2020 , 287, 2418-2427	5.7	49
72	Transplanting cells from old but not young donors causes physical dysfunction in older recipients. <i>Aging Cell</i> , 2020 , 19, e13106	9.9	24

71	Targeted Reduction of Senescent Cell Burden Alleviates Focal Radiotherapy-Related Bone Loss. <i>Journal of Bone and Mineral Research</i> , 2020 , 35, 1119-1131	6.3	40
70	Targeting Senescent Cells for a Healthier Aging: Challenges and Opportunities. <i>Advanced Science</i> , 2020 , 7, 2002611	13.6	19
69	Bridging the geroscience chasm between bench and bedside. <i>Gerontology and Geriatrics Education</i> , 2020 , 1-7	1.2	
68	CD38 ecto-enzyme in immune cells is induced during aging and regulates NAD and NMN levels. <i>Nature Metabolism</i> , 2020 , 2, 1284-1304	14.6	52
67	Senescence and Cancer: A Review of Clinical Implications of Senescence and Senotherapies. <i>Cancers</i> , 2020 , 12,	6.6	46
66	Senolytics prevent mt-DNA-induced inflammation and promote the survival of aged organs following transplantation. <i>Nature Communications</i> , 2020 , 11, 4289	17.4	55
65	Reducing Senescent Cell Burden in Aging and Disease. <i>Trends in Molecular Medicine</i> , 2020 , 26, 630-638	11.5	47
64	Human Obesity Induces Dysfunction and Early Senescence in Adipose Tissue-Derived Mesenchymal Stromal/Stem Cells. <i>Frontiers in Cell and Developmental Biology</i> , 2020 , 8, 197	5.7	36
63	Cellular senescence: at the nexus between ageing and diabetes. <i>Diabetologia</i> , 2019 , 62, 1835-1841	10.3	77
62	Targeting senescence improves angiogenic potential of adipose-derived mesenchymal stem cells in patients with preeclampsia. <i>Biology of Sex Differences</i> , 2019 , 10, 49	9.3	28
61	Senolytics decrease senescent cells in humans: Preliminary report from a clinical trial of Dasatinib plus Quercetin in individuals with diabetic kidney disease. <i>EBioMedicine</i> , 2019 , 47, 446-456	8.8	356
60	Therapeutic Approaches to Aging-Reply. <i>JAMA - Journal of the American Medical Association</i> , 2019 , 321, 901-902	27.4	4
59	Independent Roles of Estrogen Deficiency and Cellular Senescence in the Pathogenesis of Osteoporosis: Evidence in Young Adult Mice and Older Humans. <i>Journal of Bone and Mineral Research</i> , 2019 , 34, 1407-1418	6.3	35
58	Targeting senescent cells alleviates obesity-induced metabolic dysfunction. <i>Aging Cell</i> , 2019 , 18, e12950	9.9	218
57	Aged-senescent cells contribute to impaired heart regeneration. <i>Aging Cell</i> , 2019 , 18, e12931	9.9	112
56	The NADase CD38 is induced by factors secreted from senescent cells providing a potential link between senescence and age-related cellular NAD decline. <i>Biochemical and Biophysical Research Communications</i> , 2019 , 513, 486-493	3.4	59
55	Length-independent telomere damage drives post-mitotic cardiomyocyte senescence. <i>EMBO Journal</i> , 2019 , 38,	13	159
54	Increased renal cellular senescence in murine high-fat diet: effect of the senolytic drug quercetin. <i>Translational Research</i> , 2019 , 213, 112-123	11	48

53	Creating the Next Generation of Translational Geroscientists. <i>Journal of the American Geriatrics Society</i> , 2019 , 67, 1934-1939	5.6	7
52	Senescence marker activin A is increased in human diabetic kidney disease: association with kidney function and potential implications for therapy. <i>BMJ Open Diabetes Research and Care</i> , 2019 , 7, e000720 ^{4,5}		23
51	Sarcopenia: Aging-Related Loss of Muscle Mass and Function. <i>Physiological Reviews</i> , 2019 , 99, 427-511	47.9	357
50	Obesity-Induced Cellular Senescence Drives Anxiety and Impairs Neurogenesis. <i>Cell Metabolism</i> , 2019 , 29, 1061-1077.e8	24.6	161
49	Senolytics in idiopathic pulmonary fibrosis: Results from a first-in-human, open-label, pilot study. <i>EBioMedicine</i> , 2019 , 40, 554-563	8.8	425
48	Hyperoxia-induced Cellular Senescence in Fetal Airway Smooth Muscle Cells. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2019 , 61, 51-60	5.7	37
47	Inhibiting Cellular Senescence: A New Therapeutic Paradigm for Age-Related Osteoporosis. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2018 , 103, 1282-1290	5.6	70
46	Cellular Senescence Biomarker p16INK4a+ Cell Burden in Thigh Adipose is Associated With Poor Physical Function in Older Women. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2018 , 73, 939-945	6.4	70
45	The murine dialysis fistula model exhibits a senescence phenotype: pathobiological mechanisms and therapeutic potential. <i>American Journal of Physiology - Renal Physiology</i> , 2018 , 315, F1493-F1499	4.3	19
44	Senolytics improve physical function and increase lifespan in old age. <i>Nature Medicine</i> , 2018 , 24, 1246-1256 ⁵	56.5	776
43	Targeting senescent cholangiocytes and activated fibroblasts with B-cell lymphoma-extra large inhibitors ameliorates fibrosis in multidrug resistance 2 gene knockout (Mdr2) mice. <i>Hepatology</i> , 2018 , 67, 247-259	11.2	70
42	Senescent cell clearance by the immune system: Emerging therapeutic opportunities. <i>Seminars in Immunology</i> , 2018 , 40, 101275	10.7	138
41	Premature Physiologic Aging as a Paradigm for Understanding Increased Risk of Adverse Health Across the Lifespan of Survivors of Childhood Cancer. <i>Journal of Clinical Oncology</i> , 2018 , 36, 2206-2215	2.2	51
40	Fisetin is a senotherapeutic that extends health and lifespan. <i>EBioMedicine</i> , 2018 , 36, 18-28	8.8	298
39	Aging, Cell Senescence, and Chronic Disease: Emerging Therapeutic Strategies. <i>JAMA - Journal of the American Medical Association</i> , 2018 , 320, 1319-1320	27.4	123
38	Cellular senescence mediates fibrotic pulmonary disease. <i>Nature Communications</i> , 2017 , 8, 14532	17.4	616
37	Cellular Senescence: A Translational Perspective. <i>EBioMedicine</i> , 2017 , 21, 21-28	8.8	453
36	Report: NIA Workshop on Measures of Physiologic Resiliencies in Human Aging. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2017 , 72, 980-990	6.4	62

35	Cellular senescence drives age-dependent hepatic steatosis. <i>Nature Communications</i> , 2017 , 8, 15691	17.4	408
34	The Clinical Potential of Senolytic Drugs. <i>Journal of the American Geriatrics Society</i> , 2017 , 65, 2297-2301	5.6	290
33	Targeting cellular senescence prevents age-related bone loss in mice. <i>Nature Medicine</i> , 2017 , 23, 1072-1079	9.5	464
32	Identification of HSP90 inhibitors as a novel class of senolytics. <i>Nature Communications</i> , 2017 , 8, 422	17.4	312
31	Biology of premature ageing in survivors of cancer. <i>ESMO Open</i> , 2017 , 2, e000250	6	85
30	New agents that target senescent cells: the flavone, fisetin, and the BCL-X inhibitors, A1331852 and A1155463. <i>Aging</i> , 2017 , 9, 955-963	5.6	286
29	TNF β senescence initiates a STAT-dependent positive feedback loop, leading to a sustained interferon signature, DNA damage, and cytokine secretion. <i>Aging</i> , 2017 , 9, 2411-2435	5.6	55
28	Transplanted Senescent Cells Induce an Osteoarthritis-Like Condition in Mice. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2017 , 72, 780-785	6.4	111
27	Evaluating Health Span in Preclinical Models of Aging and Disease: Guidelines, Challenges, and Opportunities for Geroscience. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2016 , 71, 1395-1406	6.4	32
26	Exercise Prevents Diet-Induced Cellular Senescence in Adipose Tissue. <i>Diabetes</i> , 2016 , 65, 1606-15	0.9	137
25	Translating the Science of Aging into Therapeutic Interventions. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2016 , 6, a025908	5.4	37
24	Aging and adipose tissue: potential interventions for diabetes and regenerative medicine. <i>Experimental Gerontology</i> , 2016 , 86, 97-105	4.5	180
23	Identification of Senescent Cells in the Bone Microenvironment. <i>Journal of Bone and Mineral Research</i> , 2016 , 31, 1920-1929	6.3	214
22	Perspective: Targeting the JAK/STAT pathway to fight age-related dysfunction. <i>Pharmacological Research</i> , 2016 , 111, 152-154	10.2	37
21	Resilience in Aging Mice. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2016 , 71, 1407-1414	6.4	43
20	Identification of a novel senolytic agent, navitoclax, targeting the Bcl-2 family of anti-apoptotic factors. <i>Aging Cell</i> , 2016 , 15, 428-35	9.9	463
19	Chronic senolytic treatment alleviates established vasomotor dysfunction in aged or atherosclerotic mice. <i>Aging Cell</i> , 2016 , 15, 973-7	9.9	382
18	The AchillesHeel of senescent cells: from transcriptome to senolytic drugs. <i>Aging Cell</i> , 2015 , 14, 644-58	9.9	987

17	Cellular Senescence in Type 2 Diabetes: A Therapeutic Opportunity. <i>Diabetes</i> , 2015 , 64, 2289-98	0.9	211
16	Cellular Senescence and the Biology of Aging, Disease, and Frailty. <i>Nestle Nutrition Institute Workshop Series</i> , 2015 , 83, 11-8	1.9	86
15	Targeting senescent cells enhances adipogenesis and metabolic function in old age. <i>ELife</i> , 2015 , 4, e129879	11.9	299
14	Clinical strategies and animal models for developing senolytic agents. <i>Experimental Gerontology</i> , 2015 , 68, 19-25	4.5	102
13	JAK inhibition alleviates the cellular senescence-associated secretory phenotype and frailty in old age. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E6301-10	11.5	357
12	Markers of cellular senescence are elevated in murine blastocysts cultured in vitro: molecular consequences of culture in atmospheric oxygen. <i>Journal of Assisted Reproduction and Genetics</i> , 2014 , 31, 1259-67	3.4	21
11	Insulin-like growth factor-1 regulates the SIRT1-p53 pathway in cellular senescence. <i>Aging Cell</i> , 2014 , 13, 669-78	9.9	93
10	Deleted in Breast Cancer 1 regulates cellular senescence during obesity. <i>Aging Cell</i> , 2014 , 13, 951-3	9.9	18
9	Cellular senescence and the senescent secretory phenotype in age-related chronic diseases. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2014 , 17, 324-8	3.8	170
8	Growth hormone action predicts age-related white adipose tissue dysfunction and senescent cell burden in mice. <i>Aging</i> , 2014 , 6, 575-86	5.6	91
7	Cellular senescence and the senescent secretory phenotype: therapeutic opportunities. <i>Journal of Clinical Investigation</i> , 2013 , 123, 966-72	15.9	971
6	Clearance of p16Ink4a-positive senescent cells delays ageing-associated disorders. <i>Nature</i> , 2011 , 479, 232-6	50.4	2098
5	Fat tissue, aging, and cellular senescence. <i>Aging Cell</i> , 2010 , 9, 667-84	9.9	645
4	Activin a plays a critical role in proliferation and differentiation of human adipose progenitors. <i>Diabetes</i> , 2010 , 59, 2513-21	0.9	113
3	Aging, depot origin, and preadipocyte gene expression. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2010 , 65, 242-51	6.4	68
2	KDM4 Orchestrates Epigenomic Remodeling of Senescent Cells and Potentiates the Senescence-Associated Secretory Phenotype		2
1	Procyanidin C1 is a natural agent with senolytic activity against aging and age-related diseases		1