

James L Kirkland

List of Publications by Year in descending order

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Version: 2024-02-01

109
papers

25,954
citations

16411

64
h-index

24179

110
g-index

118
all docs

118
docs citations

118
times ranked

17902
citing authors

#	ARTICLE	IF	CITATIONS
1	Clearance of p16Ink4a-positive senescent cells delays ageing-associated disorders. <i>Nature</i> , 2011, 479, 232-236.	13.7	2,806
2	The Achillesâ€™ heel of senescent cells: from transcriptome to senolytic drugs. <i>Aging Cell</i> , 2015, 14, 644-658.	3.0	1,534
3	Senolytics improve physical function and increase lifespan in old age. <i>Nature Medicine</i> , 2018, 24, 1246-1256.	15.2	1,384
4	Cellular senescence and the senescent secretory phenotype: therapeutic opportunities. <i>Journal of Clinical Investigation</i> , 2013, 123, 966-972.	3.9	1,326
5	Cellular senescence mediates fibrotic pulmonary disease. <i>Nature Communications</i> , 2017, 8, 14532.	5.8	1,008
6	Fat tissue, aging, and cellular senescence. <i>Aging Cell</i> , 2010, 9, 667-684.	3.0	834
7	Sarcopenia: Aging-Related Loss of Muscle Mass and Function. <i>Physiological Reviews</i> , 2019, 99, 427-511.	13.1	767
8	Targeting cellular senescence prevents age-related bone loss in mice. <i>Nature Medicine</i> , 2017, 23, 1072-1079.	15.2	754
9	Senolytics in idiopathic pulmonary fibrosis: Results from a first-in-human, open-label, pilot study. <i>EBioMedicine</i> , 2019, 40, 554-563.	2.7	746
10	Identification of a novel senolytic agent, navitoclax, targeting the Bclâ€™2 family of antiâ€™apoptotic factors. <i>Aging Cell</i> , 2016, 15, 428-435.	3.0	717
11	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.	2.7	697
12	Cellular Senescence: A Translational Perspective. <i>EBioMedicine</i> , 2017, 21, 21-28.	2.7	690
13	Cellular senescence drives age-dependent hepatic steatosis. <i>Nature Communications</i> , 2017, 8, 15691.	5.8	673
14	Fisetin is a senotherapeutic that extends health and lifespan. <i>EBioMedicine</i> , 2018, 36, 18-28.	2.7	554
15	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.	3.3	543
16	Chronic senolytic treatment alleviates established vasomotor dysfunction in aged or atherosclerotic mice. <i>Aging Cell</i> , 2016, 15, 973-977.	3.0	540
17	New agents that target senescent cells: the flavone, fisetin, and the BCL-XL inhibitors, A1331852 and A1155463. <i>Aging</i> , 2017, 9, 955-963.	1.4	469
18	Identification of HSP90 inhibitors as a novel class of senolytics. <i>Nature Communications</i> , 2017, 8, 422.	5.8	466

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19	Targeting senescent cells enhances adipogenesis and metabolic function in old age. <i>ELife</i> , 2015, 4, e12997.	2.8	436
20	The Clinical Potential of Senolytic Drugs. <i>Journal of the American Geriatrics Society</i> , 2017, 65, 2297-2301.	1.3	416
21	Targeting senescent cells alleviates obesity-induced metabolic dysfunction. <i>Aging Cell</i> , 2019, 18, e12950.	3.0	395
22	Identification of Senescent Cells in the Bone Microenvironment. <i>Journal of Bone and Mineral Research</i> , 2016, 31, 1920-1929.	3.1	352
23	Length-independent telomere damage drives postmitotic cardiomyocyte senescence. <i>EMBO Journal</i> , 2019, 38, .	3.5	307
24	Cellular Senescence in Type 2 Diabetes: A Therapeutic Opportunity. <i>Diabetes</i> , 2015, 64, 2289-2298.	0.3	294
25	Obesity-Induced Cellular Senescence Drives Anxiety and Impairs Neurogenesis. <i>Cell Metabolism</i> , 2019, 29, 1061-1077.e8.	7.2	293
26	Senescent cell clearance by the immune system: Emerging therapeutic opportunities. <i>Seminars in Immunology</i> , 2018, 40, 101275.	2.7	285
27	The role of cellular senescence in ageing and endocrine disease. <i>Nature Reviews Endocrinology</i> , 2020, 16, 263-275.	4.3	276
28	Ageing and adipose tissue: potential interventions for diabetes and regenerative medicine. <i>Experimental Gerontology</i> , 2016, 86, 97-105.	1.2	235
29	Cellular senescence and the senescent secretory phenotype in age-related chronic diseases. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2014, 17, 324-328.	1.3	215
30	Ageing, Cell Senescence, and Chronic Disease. <i>JAMA - Journal of the American Medical Association</i> , 2018, 320, 1319.	3.8	214
31	Aged senescent cells contribute to impaired heart regeneration. <i>Aging Cell</i> , 2019, 18, e12931.	3.0	202
32	Strategies for targeting senescent cells in human disease. <i>Nature Aging</i> , 2021, 1, 870-879.	5.3	192
33	Whole-body senescent cell clearance alleviates age-related brain inflammation and cognitive impairment in mice. <i>Aging Cell</i> , 2021, 20, e13296.	3.0	186
34	Exercise Prevents Diet-Induced Cellular Senescence in Adipose Tissue. <i>Diabetes</i> , 2016, 65, 1606-1615.	0.3	185
35	Senolytics reduce coronavirus-related mortality in old mice. <i>Science</i> , 2021, 373, .	6.0	184
36	Cellular senescence: at the nexus between ageing and diabetes. <i>Diabetologia</i> , 2019, 62, 1835-1841.	2.9	170

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37	Transplanted Senescent Cells Induce an Osteoarthritis-Like Condition in Mice. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2017, 72, glw154.	1.7	163
38	CD38 ecto-enzyme in immune cells is induced during aging and regulates NAD ⁺ and NMN levels. <i>Nature Metabolism</i> , 2020, 2, 1284-1304.	5.1	157
39	Therapy-Induced Senescence: Opportunities to Improve Anticancer Therapy. <i>Journal of the National Cancer Institute</i> , 2021, 113, 1285-1298.	3.0	156
40	Senolytic Drugs: Reducing Senescent Cell Viability to Extend Health Span. <i>Annual Review of Pharmacology and Toxicology</i> , 2021, 61, 779-803.	4.2	151
41	Biology of premature ageing in survivors of cancer. <i>ESMO Open</i> , 2017, 2, e000250.	2.0	148
42	Insulin-like growth factor-1 regulates the SIRT1-p53 pathway in cellular senescence. <i>Aging Cell</i> , 2014, 13, 669-678.	3.0	146
43	Activin A Plays a Critical Role in Proliferation and Differentiation of Human Adipose Progenitors. <i>Diabetes</i> , 2010, 59, 2513-2521.	0.3	140
44	Senescence and Cancer: A Review of Clinical Implications of Senescence and Senotherapies. <i>Cancers</i> , 2020, 12, 2134.	1.7	134
45	Clinical strategies and animal models for developing senolytic agents. <i>Experimental Gerontology</i> , 2015, 68, 19-25.	1.2	125
46	Senolytics prevent mt-DNA-induced inflammation and promote the survival of aged organs following transplantation. <i>Nature Communications</i> , 2020, 11, 4289.	5.8	125
47	Cellular Senescence and the Biology of Aging, Disease, and Frailty. <i>Nestle Nutrition Institute Workshop Series</i> , 2015, 83, 11-18.	1.5	117
48	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.	1.7	111
49	Growth hormone action predicts age-related white adipose tissue dysfunction and senescent cell burden in mice. <i>Aging</i> , 2014, 6, 575-586.	1.4	107
50	Reducing Senescent Cell Burden in Aging and Disease. <i>Trends in Molecular Medicine</i> , 2020, 26, 630-638.	3.5	102
51	Discovery, development, and future application of senolytics: theories and predictions. <i>FEBS Journal</i> , 2020, 287, 2418-2427.	2.2	100
52	Targeting senescent cholangiocytes and activated fibroblasts with B cell lymphoma-2 extra large inhibitors ameliorates fibrosis in multidrug resistance 2 gene knockout (Mdr2 ^{-/-}) mice. <i>Hepatology</i> , 2018, 67, 247-259.	3.6	99
53	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.	0.8	99
54	The flavonoid procyanidin C1 has senotherapeutic activity and increases lifespan in mice. <i>Nature Metabolism</i> , 2021, 3, 1706-1726.	5.1	99

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55	TNF \pm -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.	1.4	95
56	Inhibiting Cellular Senescence: A New Therapeutic Paradigm for Age-Related Osteoporosis. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2018, 103, 1282-1290.	1.8	93
57	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.	1.7	92
58	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.	1.0	90
59	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.	1.8	79
60	Increased renal cellular senescence in murine high-fat diet: effect of the senolytic drug quercetin. <i>Translational Research</i> , 2019, 213, 112-123.	2.2	78
61	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.	3.1	77
62	Ageing, Depot Origin, and Preadipocyte Gene Expression. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2010, 65A, 242-251.	1.7	76
63	Targeted Reduction of Senescent Cell Burden Alleviates Focal Radiotherapy-Related Bone Loss. <i>Journal of Bone and Mineral Research</i> , 2020, 35, 1119-1131.	3.1	74
64	Resilience in Aging Mice. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2016, 71, 1407-1414.	1.7	70
65	Targeting Senescent Cells for a Healthier Aging: Challenges and Opportunities. <i>Advanced Science</i> , 2020, 7, 2002611.	5.6	70
66	Targeting p21Cip1 highly expressing cells in adipose tissue alleviates insulin resistance in obesity. <i>Cell Metabolism</i> , 2022, 34, 75-89.e8.	7.2	68
67	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.	1.8	67
68	An inducible p21-Cre mouse model to monitor and manipulate p21-highly-expressing senescent cells in vivo. <i>Nature Aging</i> , 2021, 1, 962-973.	5.3	61
69	Strategies to Prevent or Remediate Cancer and Treatment-Related Aging. <i>Journal of the National Cancer Institute</i> , 2021, 113, 112-122.	3.0	57
70	Translating the Science of Aging into Therapeutic Interventions. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2016, 6, a025908.	2.9	56
71	Hyperoxia-induced Cellular Senescence in Fetal Airway Smooth Muscle Cells. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2019, 61, 51-60.	1.4	56
72	Perspective: Targeting the JAK/STAT pathway to fight age-related dysfunction. <i>Pharmacological Research</i> , 2016, 111, 152-154.	3.1	54

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73	Transplanting cells from old but not young donors causes physical dysfunction in older recipients. <i>Aging Cell</i> , 2020, 19, e13106.	3.0	51
74	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.	1.4	51
75	Targeting senescence improves angiogenic potential of adipose-derived mesenchymal stem cells in patients with preeclampsia. <i>Biology of Sex Differences</i> , 2019, 10, 49.	1.8	49
76	Strategies for late phase preclinical and early clinical trials of senolytics. <i>Mechanisms of Ageing and Development</i> , 2021, 200, 111591.	2.2	48
77	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.	1.7	44
78	Targeted clearance of p21 ⁺ but not p16 ⁺ positive senescent cells prevents radiation-induced osteoporosis and increased marrow adiposity. <i>Aging Cell</i> , 2022, 21, e13602.	3.0	40
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.	2.2	39
80	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.	1.2	36
81	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.	1.3	35
82	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.	2.0	35
83	Frailty in CKD and Transplantation. <i>Kidney International Reports</i> , 2021, 6, 2270-2280.	0.4	33
84	KDM4 orchestrates epigenomic remodeling of senescent cells and potentiates the senescence-associated secretory phenotype. <i>Nature Aging</i> , 2021, 1, 454-472.	5.3	31
85	TNF α /IFN β synergy amplifies senescence-associated inflammation and SARS-CoV-2 receptor expression via hyperactivated JAK/STAT1. <i>Aging Cell</i> , 2022, 21, .	3.0	31
86	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, 1259-1267.	1.2	27
87	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.	1.3	27
88	Orally-active, clinically-translatable senolytics restore Î±-Klotho in mice and humans. <i>EBioMedicine</i> , 2022, 77, 103912.	2.7	27
89	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.	1.3	26
90	Role of senescence in the chronic health consequences of COVID-19. <i>Translational Research</i> , 2022, 241, 96-108.	2.2	25

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91	Deleted in <sc>B</sc> reast <sc>C</sc> ancer 1 regulates cellular senescence during obesity. Aging Cell, 2014, 13, 951-953.	3.0	23
92	Selective Vulnerability of Senescent Glioblastoma Cells to BCL-XL Inhibition. Molecular Cancer Research, 2022, 20, 938-948.	1.5	22
93	Senolytics: Potential for Alleviating Diabetes and Its Complications. Endocrinology, 2021, 162, .	1.4	21
94	Epigenetic and senescence markers indicate an accelerated ageing-like state in women with preeclamptic pregnancies. EBioMedicine, 2021, 70, 103536.	2.7	20
95	Senescent cells in human adipose tissue: A cross-sectional study. Obesity, 2021, 29, 1320-1327.	1.5	18
96	Extending human healthspan and longevity: a symposium report. Annals of the New York Academy of Sciences, 2022, 1507, 70-83.	1.8	18
97	Accelerated aging in older cancer survivors. Journal of the American Geriatrics Society, 2021, 69, 3077-3080.	1.3	15
98	Creating the Next Generation of Translational Geroscience. Journal of the American Geriatrics Society, 2019, 67, 1934-1939.	1.3	13
99	Antidiabetic Effects of the Senolytic Agent Dasatinib. Mayo Clinic Proceedings, 2021, 96, 3021-3029.	1.4	13
100	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. Diabetes, 2021, 70, 1561-1574.	0.3	12
101	Mechanisms of vascular dysfunction in the interleukin-10-deficient murine model of preeclampsia indicate nitric oxide dysregulation. Kidney International, 2021, 99, 646-656.	2.6	10
102	Obesity, Senescence, and Senolytics. Handbook of Experimental Pharmacology, 2021, , 165-180.	0.9	10
103	Chronic HIV Infection and Aging: Application of a Geroscience-Guided Approach. Journal of Acquired Immune Deficiency Syndromes (1999), 2022, 89, S34-S46.	0.9	8
104	Palmitate induces DNA damage and senescence in human adipocytes in vitro that can be alleviated by oleic acid but not inorganic nitrate. Experimental Gerontology, 2022, 163, 111798.	1.2	8
105	Growth hormone in adipose dysfunction and senescence. Oncotarget, 2015, 6, 10667-10668.	0.8	6
106	Therapeutic Approaches to Aging-Reply. JAMA - Journal of the American Medical Association, 2019, 321, 901.	3.8	4
107	Meeting Report: Aging Research and Drug Discovery. Aging, 2022, 14, 530-543.	1.4	4
108	Senescence in obesity. , 2022, , 289-308.		3

#	ARTICLE	IF	CITATIONS
109	Bridging the geroscience chasm between bench and bedside. Gerontology and Geriatrics Education, 2020, , 1-7.	0.6	0