

Darren J Baker

List of Publications by Citations

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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.

53
papers

10,501
citations

31
h-index

58
g-index

58
ext. papers

13,364
ext. citations

16.4
avg, IF

6.56
L-index

#	Paper	IF	Citations
53	Clearance of p16Ink4a-positive senescent cells delays ageing-associated disorders. <i>Nature</i> , 2011 , 479, 232-6	50.4	2098
52	Naturally occurring p16(Ink4a)-positive cells shorten healthy lifespan. <i>Nature</i> , 2016 , 530, 184-9	50.4	1378
51	Cellular senescence in aging and age-related disease: from mechanisms to therapy. <i>Nature Medicine</i> , 2015 , 21, 1424-35	50.5	987
50	Local clearance of senescent cells attenuates the development of post-traumatic osteoarthritis and creates a pro-regenerative environment. <i>Nature Medicine</i> , 2017 , 23, 775-781	50.5	642
49	BubR1 insufficiency causes early onset of aging-associated phenotypes and infertility in mice. <i>Nature Genetics</i> , 2004 , 36, 744-9	36.3	586
48	Senescent intimal foam cells are deleterious at all stages of atherosclerosis. <i>Science</i> , 2016 , 354, 472-477	33.3	558
47	Senescent cells: an emerging target for diseases of ageing. <i>Nature Reviews Drug Discovery</i> , 2017 , 16, 718-735	64.1	488
46	Clearance of senescent glial cells prevents tau-dependent pathology and cognitive decline. <i>Nature</i> , 2018 , 562, 578-582	50.4	470
45	Senescence and apoptosis: dueling or complementary cell fates?. <i>EMBO Reports</i> , 2014 , 15, 1139-53	6.5	429
44	Rae1 is an essential mitotic checkpoint regulator that cooperates with Bub3 to prevent chromosome missegregation. <i>Journal of Cell Biology</i> , 2003 , 160, 341-53	7.3	311
43	Opposing roles for p16Ink4a and p19Arf in senescence and ageing caused by BubR1 insufficiency. <i>Nature Cell Biology</i> , 2008 , 10, 825-36	23.4	282
42	Cellular senescence in ageing: from mechanisms to therapeutic opportunities. <i>Nature Reviews Molecular Cell Biology</i> , 2021 , 22, 75-95	48.7	191
41	Increased expression of BubR1 protects against aneuploidy and cancer and extends healthy lifespan. <i>Nature Cell Biology</i> , 2013 , 15, 96-102	23.4	180
40	Whole chromosome instability caused by Bub1 insufficiency drives tumorigenesis through tumor suppressor gene loss of heterozygosity. <i>Cancer Cell</i> , 2009 , 16, 475-86	24.3	172
39	Cellular senescence in renal ageing and disease. <i>Nature Reviews Nephrology</i> , 2017 , 13, 77-89	14.9	164
38	Cellular senescence in brain aging and neurodegenerative diseases: evidence and perspectives. <i>Journal of Clinical Investigation</i> , 2018 , 128, 1208-1216	15.9	162
37	Early aging-associated phenotypes in Bub3/Rae1 haploinsufficient mice. <i>Journal of Cell Biology</i> , 2006 , 172, 529-40	7.3	152

36	SIRT2 induces the checkpoint kinase BubR1 to increase lifespan. <i>EMBO Journal</i> , 2014 , 33, 1438-53	13	148
35	Exercise Prevents Diet-Induced Cellular Senescence in Adipose Tissue. <i>Diabetes</i> , 2016 , 65, 1606-15	0.9	137
34	Vascular Cell Senescence Contributes to Blood-Brain Barrier Breakdown. <i>Stroke</i> , 2016 , 47, 1068-77	6.7	103
33	p21 both attenuates and drives senescence and aging in BubR1 progeroid mice. <i>Cell Reports</i> , 2013 , 3, 1164-74	10.6	101
32	Spartan deficiency causes genomic instability and progeroid phenotypes. <i>Nature Communications</i> , 2014 , 5, 5744	17.4	67
31	Spartan deficiency causes accumulation of Topoisomerase 1 cleavage complexes and tumorigenesis. <i>Nucleic Acids Research</i> , 2017 , 45, 4564-4576	20.1	63
30	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
29	Cyclin A2 is an RNA binding protein that controls Mre11 mRNA translation. <i>Science</i> , 2016 , 353, 1549-1552	33.3	52
28	Expansion of myeloid-derived suppressor cells with aging in the bone marrow of mice through a NF- κ B-dependent mechanism. <i>Aging Cell</i> , 2017 , 16, 480-487	9.9	50
27	Circulating levels of monocyte chemoattractant protein-1 as a potential measure of biological age in mice and frailty in humans. <i>Aging Cell</i> , 2018 , 17, e12706	9.9	48
26	Endonucleases: new tools to edit the mouse genome. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2014 , 1842, 1942-1950	6.9	48
25	Probing the depths of cellular senescence. <i>Journal of Cell Biology</i> , 2013 , 202, 11-3	7.3	38
24	The yin and yang of the Cdkn2a locus in senescence and aging. <i>Cell Cycle</i> , 2008 , 7, 2795-802	4.7	36
23	Therapy-Induced Senescence Drives Bone Loss. <i>Cancer Research</i> , 2020 , 80, 1171-1182	10.1	31
22	Biphasic Modeling of Mitochondrial Metabolism Dysregulation during Aging. <i>Trends in Biochemical Sciences</i> , 2017 , 42, 702-711	10.3	29
21	Chromosome missegregation causes colon cancer by APC loss of heterozygosity. <i>Cell Cycle</i> , 2010 , 9, 1711-6	11.6	26
20	Age-related decline in BubR1 impairs adult hippocampal neurogenesis. <i>Aging Cell</i> , 2017 , 16, 598-601	9.9	24
19	Cellular Senescence and the Immune System in Cancer. <i>Gerontology</i> , 2019 , 65, 505-512	5.5	22

18	Implicating endothelial cell senescence to dysfunction in the ageing and diseased brain. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2020 , 127, 102-110	3.1	22
17	p21 produces a bioactive secretome that places stressed cells under immunosurveillance. <i>Science</i> , 2021 , 374, eabb3420	33.3	20
16	Pak2 kinase promotes cellular senescence and organismal aging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 13311-13319	11.5	16
15	The progeroid gene BubR1 regulates axon myelination and motor function. <i>Aging</i> , 2016 , 8, 2667-2688	5.6	16
14	BubR1 alterations that reinforce mitotic surveillance act against aneuploidy and cancer. <i>ELife</i> , 2016 , 5,	8.9	10
13	Senescence in aging and disorders of the central nervous system. <i>Translational Medicine of Aging</i> , 2019 , 3, 17-25	2.7	8
12	Insights from In Vivo Studies of Cellular Senescence. <i>Cells</i> , 2020 , 9,	7.9	8
11	Whole chromosome aneuploidy in the brain of Bub1bH/H and Ercc1- Δ mice. <i>Human Molecular Genetics</i> , 2016 , 25, 755-65	5.6	8
10	The Spindle Assembly Checkpoint Is Required for Hematopoietic Progenitor Cell Engraftment. <i>Stem Cell Reports</i> , 2017 , 9, 1359-1368	8	8
9	Cellular Identification and Quantification of Senescence-Associated β -Galactosidase Activity In Vivo. <i>Methods in Molecular Biology</i> , 2019 , 1896, 31-38	1.4	8
8	Senescent cells suppress innate smooth muscle cell repair functions in atherosclerosis. <i>Nature Aging</i> , 2021 , 1, 698-714		8
7	NF- κ B p65 serine 467 phosphorylation sensitizes mice to weight gain and TNF α diet-induced inflammation. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2017 , 1864, 1785-1798	4.9	7
6	Chemotherapy-induced cellular senescence suppresses progression of Notch-driven T-ALL. <i>PLoS ONE</i> , 2019 , 14, e0224172	3.7	3
5	Untangling senescent and damage-associated microglia in the aging and diseased brain. <i>FEBS Journal</i> , 2021 ,	5.7	3
4	Hypomorphic mice. <i>Methods in Molecular Biology</i> , 2011 , 693, 233-44	1.4	2
3	FoxM1 insufficiency hyperactivates Ect2-RhoA-mDia1 signaling to drive cancer. <i>Nature Cancer</i> , 2020 , 1, 1010-1024	15.4	2
2	Glomerular endothelial cell senescence drives age-related kidney disease through PAI-1. <i>EMBO Molecular Medicine</i> , 2021 , 13, e14146	12	1
1	The Role of Stem Cell Genomic Instability in Aging. <i>Current Stem Cell Reports</i> , 2015 , 1, 151-161	1.8	

