

Darren J Baker

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

15,757
citations

109264

35
h-index

161767

54
g-index

58
all docs

58
docs citations

58
times ranked

15340
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	Naturally occurring p16Ink4a-positive cells shorten healthy lifespan. <i>Nature</i> , 2016, 530, 184-189.	13.7	2,016
3	Cellular senescence in aging and age-related disease: from mechanisms to therapy. <i>Nature Medicine</i> , 2015, 21, 1424-1435.	15.2	1,547
4	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.	15.2	994
5	Senescent intimal foam cells are deleterious at all stages of atherosclerosis. <i>Science</i> , 2016, 354, 472-477.	6.0	824
6	Cellular senescence in ageing: from mechanisms to therapeutic opportunities. <i>Nature Reviews Molecular Cell Biology</i> , 2021, 22, 75-95.	16.1	812
7	Clearance of senescent glial cells prevents tau-dependent pathology and cognitive decline. <i>Nature</i> , 2018, 562, 578-582.	13.7	803
8	Senescent cells: an emerging target for diseases of ageing. <i>Nature Reviews Drug Discovery</i> , 2017, 16, 718-735.	21.5	788
9	BubR1 insufficiency causes early onset of aging-associated phenotypes and infertility in mice. <i>Nature Genetics</i> , 2004, 36, 744-749.	9.4	663
10	Senescence and apoptosis: dueling or complementary cell fates?. <i>EMBO Reports</i> , 2014, 15, 1139-1153.	2.0	643
11	Opposing roles for p16Ink4a and p19Arf in senescence and ageing caused by BubR1 insufficiency. <i>Nature Cell Biology</i> , 2008, 10, 825-836.	4.6	338
12	Rae1 is an essential mitotic checkpoint regulator that cooperates with Bub3 to prevent chromosome missegregation. <i>Journal of Cell Biology</i> , 2003, 160, 341-353.	2.3	337
13	Cellular senescence in brain aging and neurodegenerative diseases: evidence and perspectives. <i>Journal of Clinical Investigation</i> , 2018, 128, 1208-1216.	3.9	289
14	Cellular senescence in renal ageing and disease. <i>Nature Reviews Nephrology</i> , 2017, 13, 77-89.	4.1	243
15	Increased expression of BubR1 protects against aneuploidy and cancer and extends healthy lifespan. <i>Nature Cell Biology</i> , 2013, 15, 96-102.	4.6	229
16	Whole Chromosome Instability Caused by Bub1 Insufficiency Drives Tumorigenesis through Tumor Suppressor Gene Loss of Heterozygosity. <i>Cancer Cell</i> , 2009, 16, 475-486.	7.7	198
17	<scp>SIRT</scp>2 induces the checkpoint kinase BubR1 to increase lifespan. <i>EMBO Journal</i> , 2014, 33, 1438-1453.	3.5	195
18	Exercise Prevents Diet-Induced Cellular Senescence in Adipose Tissue. <i>Diabetes</i> , 2016, 65, 1606-1615.	0.3	185

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19	Early aging-associated phenotypes in Bub3/Rae1 haploinsufficient mice. <i>Journal of Cell Biology</i> , 2006, 172, 529-540.	2.3	168
20	Vascular Cell Senescence Contributes to Blood-Brain Barrier Breakdown. <i>Stroke</i> , 2016, 47, 1068-1077.	1.0	167
21	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
22	p21 produces a bioactive secretome that places stressed cells under immunosurveillance. <i>Science</i> , 2021, 374, eabb3420.	6.0	112
23	p21 Both Attenuates and Drives Senescence and Aging in BubR1 Progeroid Mice. <i>Cell Reports</i> , 2013, 3, 1164-1174.	2.9	110
24	Spartan deficiency causes accumulation of Topoisomerase 1 cleavage complexes and tumorigenesis. <i>Nucleic Acids Research</i> , 2017, 45, 4564-4576.	6.5	91
25	Spartan deficiency causes genomic instability and progeroid phenotypes. <i>Nature Communications</i> , 2014, 5, 5744.	5.8	89
26	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.	3.0	80
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.	3.0	77
28	Therapy-Induced Senescence Drives Bone Loss. <i>Cancer Research</i> , 2020, 80, 1171-1182.	0.4	69
29	Cellular Senescence and the Immune System in Cancer. <i>Gerontology</i> , 2019, 65, 505-512.	1.4	66
30	Cyclin A2 is an RNA binding protein that controls Mre11 mRNA translation. <i>Science</i> , 2016, 353, 1549-1552.	6.0	64
31	Endonucleases: new tools to edit the mouse genome. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2014, 1842, 1942-1950.	1.8	56
32	Implicating endothelial cell senescence to dysfunction in the ageing and diseased brain. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2020, 127, 102-110.	1.2	52
33	Probing the depths of cellular senescence. <i>Journal of Cell Biology</i> , 2013, 202, 11-13.	2.3	47
34	The yin and yang of the Cdkn2a locus in senescence and aging. <i>Cell Cycle</i> , 2008, 7, 2795-2802.	1.3	44
35	Biphasic Modeling of Mitochondrial Metabolism Dysregulation during Aging. <i>Trends in Biochemical Sciences</i> , 2017, 42, 702-711.	3.7	36
36	Senescent cells suppress innate smooth muscle cell repair functions in atherosclerosis. <i>Nature Aging</i> , 2021, 1, 698-714.	5.3	34

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37	Age-related decline in BubR1 impairs adult hippocampal neurogenesis. <i>Aging Cell</i> , 2017, 16, 598-601.	3.0	31
38	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.	3.3	30
39	Chromosome missegregation causes colon cancer by APC loss of heterozygosity. <i>Cell Cycle</i> , 2010, 9, 1711-1716.	1.3	28
40	Glomerular endothelial cell senescence drives age-related kidney disease through PAI-1. <i>EMBO Molecular Medicine</i> , 2021, 13, e14146.	3.3	27
41	The progeroid gene BubR1 regulates axon myelination and motor function. <i>Aging</i> , 2016, 8, 2667-2688.	1.4	23
42	Insights from In Vivo Studies of Cellular Senescence. <i>Cells</i> , 2020, 9, 954.	1.8	21
43	Untangling senescent and damage-associated microglia in the aging and diseased brain. <i>FEBS Journal</i> , 2023, 290, 1326-1339.	2.2	20
44	Whole chromosome aneuploidy in the brain of Bub1bH/Hand Ercc1 ^{+/+} 7mice. <i>Human Molecular Genetics</i> , 2016, 25, 755-765.	1.4	17
45	Senescence in aging and disorders of the central nervous system. <i>Translational Medicine of Aging</i> , 2019, 3, 17-25.	0.6	17
46	Cellular Identification and Quantification of Senescence-Associated β -Galactosidase Activity In Vivo. <i>Methods in Molecular Biology</i> , 2019, 1896, 31-38.	0.4	16
47	Senescent cells limit p53 activity via multiple mechanisms to remain viable. <i>Nature Communications</i> , 2022, 13, .	5.8	16
48	BubR1 alterations that reinforce mitotic surveillance act against aneuploidy and cancer. <i>ELife</i> , 2016, 5, .	2.8	15
49	The Spindle Assembly Checkpoint Is Required for Hematopoietic Progenitor Cell Engraftment. <i>Stem Cell Reports</i> , 2017, 9, 1359-1368.	2.3	10
50	NF- κ B p65 serine 467 phosphorylation sensitizes mice to weight gain and TNF α -or diet-induced inflammation. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2017, 1864, 1785-1798.	1.9	9
51	Chemotherapy-induced cellular senescence suppresses progression of Notch-driven T-ALL. <i>PLoS ONE</i> , 2019, 14, e0224172.	1.1	6
52	FoxM1 insufficiency hyperactivates Ect2 \rightarrow RhoA \rightarrow Di1 signaling to drive cancer. <i>Nature Cancer</i> , 2020, 1, 1010-1024.	5.7	6
53	Hypomorphic Mice. <i>Methods in Molecular Biology</i> , 2011, 693, 233-244.	0.4	2
54	The Role of Stem Cell Genomic Instability in Aging. <i>Current Stem Cell Reports</i> , 2015, 1, 151-161.	0.7	0