# Darren J Baker

## List of Publications by Year in Descending Order



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|---|---|---|---|
| 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 | Untangling senescent and damage-associated microglia in the aging and diseased brain. *FEBS Journal*, **2021**, | 5.7 | 3 |
| 52 | p21 produces a bioactive secretome that places stressed cells under immunosurveillance. *Science*, **2021**, 374, eabb3420 | 33.3 | 20 |
| 51 | Glomerular endothelial cell senescence drives age-related kidney disease through PAI-1. *EMBO Molecular Medicine*, **2021**, 13, e14146 | 12 | 1 |
| 50 | Cellular senescence in ageing: from mechanisms to therapeutic opportunities. *Nature Reviews Molecular Cell Biology*, **2021**, 22, 75-95 | 48.7 | 191 |
| 49 | Senescent cells suppress innate smooth muscle cell repair functions in atherosclerosis. *Nature Aging*, **2021**, 1, 698-714 | | 8 |
| 48 | Implicating endothelial cell senescence to dysfunction in the ageing and diseased brain. *Basic and Clinical Pharmacology and Toxicology*, **2020**, 127, 102-110 | 3.1 | 22 |
| 47 | Therapy-Induced Senescence Drives Bone Loss. *Cancer Research*, **2020**, 80, 1171-1182 | 10.1 | 31 |
| 46 | Insights from In Vivo Studies of Cellular Senescence. *Cells*, **2020**, 9, | 7.9 | 8 |
| 45 | FoxM1 insufficiency hyperactivates Ect2-RhoA-mDia1 signaling to drive cancer. *Nature Cancer*, **2020**, 1, 1010-1024 | 15.4 | 2 |
| 44 | CD38 ecto-enzyme in immune cells is induced during aging and regulates NAD and NMN levels. *Nature Metabolism*, **2020**, 2, 1284-1304 | 14.6 | 52 |
| 43 | Pak2 kinase promotes cellular senescence and organismal aging. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 13311-13319 | 11.5 | 16 |
| 42 | Cellular Senescence and the Immune System in Cancer. *Gerontology*, **2019**, 65, 505-512 | 5.5 | 22 |
| 41 | Senescence in aging and disorders of the central nervous system. *Translational Medicine of Aging*, **2019**, 3, 17-25 | 2.7 | 8 |
| 40 | Chemotherapy-induced cellular senescence suppresses progression of Notch-driven T-ALL. *PLoS ONE*, **2019**, 14, e0224172 | 3.7 | 3 |
| 39 | Cellular Identification and Quantification of Senescence-Associated β-Galactosidase Activity In Vivo. *Methods in Molecular Biology*, **2019**, 1896, 31-38 | 1.4 | 8 |
| 38 | Circulating levels of monocyte chemoattractant protein-1 as a potential measure of biological age in mice and frailty in humans. *Aging Cell*, **2018**, 17, e12706 | 9.9 | 48 |
| 37 | Cellular senescence in brain aging and neurodegenerative diseases: evidence and perspectives. *Journal of Clinical Investigation*, **2018**, 128, 1208-1216 | 15.9 | 162 |

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|---|---|---|---|
| 36 | Clearance of senescent glial cells prevents tau-dependent pathology and cognitive decline. *Nature*, **2018**, 562, 578-582 | 50.4 | 470 |
| 35 | Expansion of myeloid-derived suppressor cells with aging in the bone marrow of mice through a NF-B-dependent mechanism. *Aging Cell*, **2017**, 16, 480-487 | 9.9 | 50 |
| 34 | Local clearance of senescent cells attenuates the development of post-traumatic osteoarthritis and creates a pro-regenerative environment. *Nature Medicine*, **2017**, 23, 775-781 | 50.5 | 642 |
| 33 | Spartan deficiency causes accumulation of Topoisomerase 1 cleavage complexes and tumorigenesis. *Nucleic Acids Research*, **2017**, 45, 4564-4576 | 20.1 | 63 |
| 32 | Age-related decline in BubR1 impairs adult hippocampal neurogenesis. *Aging Cell*, **2017**, 16, 598-601 | 9.9 | 24 |
| 31 | Cellular senescence in renal ageing and disease. *Nature Reviews Nephrology*, **2017**, 13, 77-89 | 14.9 | 164 |
| 30 | Senescent cells: an emerging target for diseases of ageing. *Nature Reviews Drug Discovery*, **2017**, 16, 718-735 | 64.1 | 488 |
| 29 | NF-B p65 serine 467 phosphorylation sensitizes mice to weight gain and TNFbr diet-induced inflammation. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2017**, 1864, 1785-1798 | 4.9 | 7 |
| 28 | The Spindle Assembly Checkpoint Is Required for Hematopoietic Progenitor Cell Engraftment. *Stem Cell Reports*, **2017**, 9, 1359-1368 | 8 | 8 |
| 27 | Biphasic Modeling of Mitochondrial Metabolism Dysregulation during Aging. *Trends in Biochemical Sciences*, **2017**, 42, 702-711 | 10.3 | 29 |
| 26 | Senescent intimal foam cells are deleterious at all stages of atherosclerosis. *Science*, **2016**, 354, 472-477 | 33.3 | 558 |
| 25 | Exercise Prevents Diet-Induced Cellular Senescence in Adipose Tissue. *Diabetes*, **2016**, 65, 1606-15 | 0.9 | 137 |
| 24 | Vascular Cell Senescence Contributes to Blood-Brain Barrier Breakdown. *Stroke*, **2016**, 47, 1068-77 | 6.7 | 103 |
| 23 | Naturally occurring p16(Ink4a)-positive cells shorten healthy lifespan. *Nature*, **2016**, 530, 184-9 | 50.4 | 1378 |
| 22 | Whole chromosome aneuploidy in the brain of Bub1bH/H and Ercc1-/ mice. *Human Molecular Genetics*, **2016**, 25, 755-65 | 5.6 | 8 |
| 21 | The progeroid gene BubR1 regulates axon myelination and motor function. *Aging*, **2016**, 8, 2667-2688 | 5.6 | 16 |
| 20 | BubR1 alterations that reinforce mitotic surveillance act against aneuploidy and cancer. *ELife*, **2016**, 5, | 8.9 | 10 |
| 19 | Cyclin A2 is an RNA binding protein that controls Mre11 mRNA translation. *Science*, **2016**, 353, 1549-1552 | 33.3 | 52 |

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|---|---|---|---|
| 18 | The Role of Stem Cell Genomic Instability in Aging. *Current Stem Cell Reports*, **2015**, 1, 151-161 | 1.8 | |
| 17 | Cellular senescence in aging and age-related disease: from mechanisms to therapy. *Nature Medicine* , **2015**, 21, 1424-35 | 50.5 | 987 |
| 16 | SIRT2 induces the checkpoint kinase BubR1 to increase lifespan. *EMBO Journal*, **2014**, 33, 1438-53 | 13 | 148 |
| 15 | Endonucleases: new tools to edit the mouse genome. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2014**, 1842, 1942-1950 | 6.9 | 48 |
| 14 | Senescence and apoptosis: dueling or complementary cell fates?. *EMBO Reports*, **2014**, 15, 1139-53 | 6.5 | 429 |
| 13 | Spartan deficiency causes genomic instability and progeroid phenotypes. *Nature Communications*, **2014**, 5, 5744 | 17.4 | 67 |
| 12 | Increased expression of BubR1 protects against aneuploidy and cancer and extends healthy lifespan. *Nature Cell Biology*, **2013**, 15, 96-102 | 23.4 | 180 |
| 11 | p21 both attenuates and drives senescence and aging in BubR1 progeroid mice. *Cell Reports*, **2013**, 3, 1164-74 | 10.6 | 101 |
| 10 | Probing the depths of cellular senescence. *Journal of Cell Biology*, **2013**, 202, 11-3 | 7.3 | 38 |
| 9 | Hypomorphic mice. *Methods in Molecular Biology*, **2011**, 693, 233-44 | 1.4 | 2 |
| 8 | Clearance of p16Ink4a-positive senescent cells delays ageing-associated disorders. *Nature*, **2011**, 479, 232-6 | 50.4 | 2098 |
| 7 | Chromosome missegregation causes colon cancer by APC loss of heterozygosity. *Cell Cycle*, **2010**, 9, 1711-6 | 4.7 | 26 |
| 6 | Whole chromosome instability caused by Bub1 insufficiency drives tumorigenesis through tumor suppressor gene loss of heterozygosity. *Cancer Cell*, **2009**, 16, 475-86 | 24.3 | 172 |
| 5 | Opposing roles for p16Ink4a and p19Arf in senescence and ageing caused by BubR1 insufficiency. *Nature Cell Biology*, **2008**, 10, 825-36 | 23.4 | 282 |
| 4 | The yin and yang of the Cdkn2a locus in senescence and aging. *Cell Cycle*, **2008**, 7, 2795-802 | 4.7 | 36 |
| 3 | Early aging-associated phenotypes in Bub3/Rae1 haploinsufficient mice. *Journal of Cell Biology*, **2006**, 172, 529-40 | 7.3 | 152 |
| 2 | BubR1 insufficiency causes early onset of aging-associated phenotypes and infertility in mice. *Nature Genetics*, **2004**, 36, 744-9 | 36.3 | 586 |
| 1 | Rae1 is an essential mitotic checkpoint regulator that cooperates with Bub3 to prevent chromosome missegregation. *Journal of Cell Biology*, **2003**, 160, 341-53 | 7.3 | 311 |