Paul D Robbins

List of Publications by Year
in descending order

115 papers	15,324 citations	38660 50 h-index	25716 108 g-index
118 all docs	118 docs citations	118 times ranked	13017 citing authors

#	Article	IF	Citations
1	Cellular Senescence: Defining a Path Forward. Cell, 2019, 179, 813-827.	13.5	1,551
2	The Achillesâ€™ heel of senescent cells: from transcriptome to senolytic drugs. Aging Cell, 2015, 14, 644-658.	3.0	1,534
3	Senolytics improve physical function and increase lifespan in old age. Nature Medicine, 2018, 24, 1246-1256.	15.2	1,384
4	Cellular senescence mediates fibrotic pulmonary disease. Nature Communications, 2017, 8, 14532.	5.8	1,008
5	Identification of a novel senolytic agent, navitoclax, targeting the Bclâ€2 family of antiâ€apoptotic factors. Aging Cell, 2016, 15, 428-435.	3.0	717
6	Fisetin is a senotherapeutic that extends health and lifespan. EBioMedicine, 2018, 36, 18-28.	2.7	554
7	New agents that target senescent cells: the flavone, fisetin, and the BCL-XL inhibitors, A1331852 and A1155463. Aging, 2017, 9, 955-963.	1.4	469
8	Identification of HSP90 inhibitors as a novel class of senolytics. Nature Communications, 2017, 8, 422.	5.8	466
9	The Clinical Potential of Senolytic Drugs. Journal of the American Geriatrics Society, 2017, 65, 2297-2301.	1.3	416
10	An aged immune system drives senescence and ageing of solid organs. Nature, 2021, 594, 100-105.	13.7	368
11	NF-Î°B inhibition delays DNA damageâ€"induced senescence and aging in mice. Journal of Clinical Investigation, 2012, 122, 2601-2612.	3.9	358
12	1999 Volvo Award Winner in Basic Science Studies. Spine, 1999, 24, 2419.	1.0	314
13	Retinoblastoma gene product activates expression of the human TGF-Î²2 gene through transcription factor ATF-2. Nature, 1992, 358, 331-334.	13.7	268
14	Clinical Trial to Assess the Safety, Feasibility, and Efficacy of Transferring a Potentially Anti-Arthritic Cytokine Gene to Human Joints with Rheumatoid Arthritis. University of Pittsburgh School of Medicine, Pittsburgh, Pennsylvania. Human Gene Therapy, 1996, 7, 1261-1280.	1.4	254
15	Gene transfer to human joints: Progress toward a gene therapy of arthritis. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 8698-8703.	3.3	198
16	Senolytics reduce coronavirus-related mortality in old mice. Science, 2021, 373, .	6.0	184
17	DNA damageâ€"how and why we age?. ELife, 2021, 10, .	2.8	184
18	Muscle-derived stem/progenitor cell dysfunction limits healthspan and lifespan in a murine progeria model. Nature Communications, 2012, 3, 608.	5.8	180

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19	Nuclear Genomic Instability and Aging. Annual Review of Biochemistry, 2018, 87, 295-322.	5.0	178
20	Tissue specificity of senescent cell accumulation during physiologic and accelerated aging of mice. Aging Cell, 2020, 19, e13094.	3.0	172
21	Adenovirus-Mediated Gene Transfer to Nucleus Pulposus Cells. Spine, 1998, 23, 2437-2442.	1.0	158
22	Senolytic Drugs: Reducing Senescent Cell Viability to Extend Health Span. Annual Review of Pharmacology and Toxicology, 2021, 61, 779-803.	4.2	151
23	NF-ÎºB in Aging and Disease. , 2011, 2, 449-65.		150
24	Targeting cellular senescence with senotherapeutics: senolytics and senomorphics. FEBS Journal, 2023, 290, 1362-1383.	2.2	140
25	Ex vivo gene transfer to chondrocytes in full-thickness articular cartilage defects: a feasibility study. Osteoarthritis and Cartilage, 1997, 5, 139-143.	0.6	135
26	Senotherapeutics for healthy ageing. Nature Reviews Drug Discovery, 2018, 17, 377-377.	21.5	126
27	Interleukin 12 Gene Therapy of Cancer by Peritumoral Injection of Transduced Autologous Fibroblasts: Outcome of a Phase I Study. Human Gene Therapy, 2001, 12, 671-684.	1.4	123
28	Systemic clearance of <i>p16^{INK4a}</i>â€positive senescent cells mitigates ageâ€associated intervertebral disc degeneration. Aging Cell, 2019, 18, e12927.	3.0	118
29	The oxidative DNA lesions 8,5â€²â€cyclopurines accumulate with aging in a tissueâ€specific manner. Aging Cell, 2012, 11, 714-716.	3.0	117
30	Senolytic Combination of Dasatinib and Quercetin Alleviates Intestinal Senescence and Inflammation and Modulates the Gut Microbiome in Aged Mice. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2021, 76, 1895-1905.	1.7	113
31	Interleukin-1 receptor antagonist suppresses neurotrophin response in injured rat brain. Annals of Neurology, 1996, 39, 123-127.	2.8	107
32	Adenovirus-mediated gene transfer of insulin-like growth factor 1 stimulates proteoglycan synthesis in rabbit joints. Arthritis and Rheumatism, 2000, 43, 2563-2570.	6.7	107
33	Increased matrix synthesis following adenoviral transfer of a transforming growth factor ?1 gene into articular chondrocytes. Journal of Orthopaedic Research, 2000, 18, 585-592.	1.2	107
34	Spontaneous DNA damage to the nuclear genome promotes senescence, redox imbalance and aging. Redox Biology, 2018, 17, 259-273.	3.9	103
35	Gene Delivery to Joints by Intra-Articular Injection. Human Gene Therapy, 2018, 29, 2-14.	1.4	92
36	Dual transduction of insulin-like growth factor-I and interleukin-I receptor antagonist protein controls cartilage degradation in an osteoarthritic culture model. Journal of Orthopaedic Research, 2005, 23, 118-126.	1.2	86

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37	Fibrates as drugs with senolytic and autophagic activity for osteoarthritis therapy. EBioMedicine, 2019, 45, 588-605.	2.7	86
38	Transfer of LacZ Marker Gene to the Meniscus*. Journal of Bone and Joint Surgery - Series A, 1999, 81, 918-25.	1.4	82
39	A gene therapy approach to accelerating bone healing. Knee Surgery, Sports Traumatology, Arthroscopy, 1999, 7, 197-202.	2.3	80
40	Arthritis gene therapy's first death. Arthritis Research and Therapy, 2008, 10, 110.	1.6	78
41	Circulating levels of monocyte chemoattractant proteinâ€1 as a potential measure of biological age in mice and frailty in humans. Aging Cell, 2018, 17, e12706.	3.0	77
42	Clinical Responses to Gene Therapy in Joints of Two Subjects with Rheumatoid Arthritis. Human Gene Therapy, 2009, 20, 97-101.	1.4	71
43	THE 2003 NICOLAS ANDRY AWARD: Orthopaedic Gene Therapy. Clinical Orthopaedics and Related Research, 2004, 429, 316-329.	0.7	66
44	Dendritic cell-based genetic immunization in mice with a recombinant adenovirus encoding murine TRP2 induces effective anti-melanoma immunity. Journal of Gene Medicine, 1999, 1, 400-406.	1.4	65
45	Hsp90 inhibitors as senolytic drugs to extend healthy aging. Cell Cycle, 2018, 17, 1048-1055.	1.3	64
46	Urinary Extracellular Vesicles Carrying Klotho Improve the Recovery of Renal Function in an Acute Tubular Injury Model. Molecular Therapy, 2020, 28, 490-502.	3.7	64
47	Mesenchymal stem cellâ€derived extracellular vesicles reduce senescence and extend health span in mouse models of aging. Aging Cell, 2021, 20, e13337.	3.0	63
48	Cyclin D1 Associates with the TBP-associated factor TAFII250 to regulate Sp1-mediated transcription. Oncogene, 1999, 18, 239-247.	2.6	62
49	Potential Role of Direct Adenoviral Gene Transfer in Enhancing Fracture Repair. Clinical Orthopaedics and Related Research, 2000, 379, S120-S125.	0.7	62
50	Getting arthritis gene therapy into the clinic. Nature Reviews Rheumatology, 2011, 7, 244-249.	3.5	60
51	Development of clinical trials to extend healthy lifespan. Cardiovascular Endocrinology and Metabolism, 2018, 7, 80-83.	0.5	59
52	Adenoviral mediated delivery of FAS ligand to arthritic joints causes extensive apoptosis in the synovial lining. Journal of Gene Medicine, 2000, 2, 210-219.	1.4	57
53	NF-Î°B Negatively Impacts the Myogenic Potential of Muscle-derived Stem Cells. Molecular Therapy, 2012, 20, 661-668.	3.7	56
54	Cellular Senescence in Intervertebral Disc Aging and Degeneration. Current Molecular Biology Reports, 2018, 4, 180-190.	0.8	55

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55	Extracellular vesicles and aging. Stem Cell Investigation, 2017, 4, 98-98.	1.3	54
56	ATM is a key driver of NF-Îº B-dependent DNA-damage-induced senescence, stem cell dysfunction and aging. Aging, 2020, 12, 4688-4710.	1.4	54
57	SARS-CoV-2 causes senescence in human cells and exacerbates the senescence-associated secretory phenotype through TLR-3. Aging, 2021, 13, 21838-21854.	1.4	51
58	Heterochronic parabiosis regulates the extent of cellular senescence in multiple tissues. GeroScience, 2020, 42, 951-961.	2.1	48
59	Immune Senescence, Immunosenescence and Aging. Frontiers in Aging, 2022, 3, .	1.2	48
60	Gene transfer to the patellar tendon. Knee Surgery, Sports Traumatology, Arthroscopy, 1997, 5, 118-123.	2.3	47
61	Effects of cytokine gene therapy on particulate-induced inflammation in the murine air pouch. Inflammation, 2001, 25, 361-372.	1.7	43
62	Systemic delivery of NEMO binding domain/IKKÎ³ inhibitory peptide to young mdx mice improves dystrophic skeletal muscle histopathology. Neurobiology of Disease, 2011, 43, 598-608.	2.1	42
63	Genotoxic stress accelerates age-associated degenerative changes in intervertebral discs. Mechanisms of Ageing and Development, 2013, 134, 35-42.	2.2	42
64	Cytoskeleton stiffness regulates cellular senescence and innate immune response in Hutchinsonâ€"Gilford Progeria Syndrome. Aging Cell, 2020, 19, e13152.	3.0	41
65	Recent advances in the discovery of senolytics. Mechanisms of Ageing and Development, 2021, 200, 111587.	2.2	41
66	Targeted clearance of <i>p21</i>â€•but not <i>p16</i>â€positive senescent cells prevents radiationâ€induced osteoporosis and increased marrow adiposity. Aging Cell, 2022, 21, e13602.	3.0	40
67	Dysregulation of DAF-16/FOXO3A-mediated stress responses accelerates oxidative DNA damage induced aging. Redox Biology, 2018, 18, 191-199.	3.9	39
68	Arthritis gene therapy is becoming a reality. Nature Reviews Rheumatology, 2018, 14, 381-382.	3.5	39
69	Rapamycin Rescues Age-Related Changes in Muscle-Derived Stem/Progenitor Cells from Progeroid Mice. Molecular Therapy - Methods and Clinical Development, 2019, 14, 64-76.	1.8	39
70	Broad cellular immunity with robust memory responses to simian immunodeficiency virus following serial vaccination with adenovirus 5- and 35-based vectors. Journal of General Virology, 2006, 87, 139-149.	1.3	36
71	Role of Cellular Senescence in Type II Diabetes. Endocrinology, 2021, 162, .	1.4	36
72	Transfer of pro?2(I) cDNA into cells of a murine model of human Osteogenesis Imperfecta restores synthesis of type I collagen comprised of ?1(I) and ?2(I) heterotrimers in vitro and in vivo. Journal of Cellular Biochemistry, 2001, 83, 84-91.	1.2	35

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73	Fisetin for <scp>COVID</scp>â€19 in skilled nursing facilities: Senolytic trials in the <scp>COVID</scp> era. Journal of the American Geriatrics Society, 2021, 69, 3023-3033.	1.3	35
74	Murine Models of Cancer Cytokine Gene Therapy Using Interleukin-12. Annals of the New York Academy of Sciences, 1996, 795, 275-283.	1.8	34
75	Senescent intervertebral disc cells exhibit perturbed matrix homeostasis phenotype. Mechanisms of Ageing and Development, 2017, 166, 16-23.	2.2	34
76	Genetics of extreme human longevity to guide drug discovery for healthy ageing. Nature Metabolism, 2020, 2, 663-672.	5.1	32
77	Gene mediated insulin-like growth factor-I delivery to the synovium. Journal of Orthopaedic Research, 2001, 19, 759-767.	1.2	31
78	Mouse Models of Accelerated Cellular Senescence. Methods in Molecular Biology, 2019, 1896, 203-230.	0.4	30
79	Development of novel NEMO-binding domain mimetics for inhibiting IKK/NF-Î°B activation. PLoS Biology, 2018, 16, e2004663.	2.6	29
80	Pharmacologic IKK/NF-Î°B inhibition causes antigen presenting cells to undergo TNFÎ± dependent ROS-mediated programmed cell death. Scientific Reports, 2014, 4, 3631.	1.6	27
81	Rb interacts with TAFII250/TFIID through multiple domains. Oncogene, 1997, 15, 385-392.	2.6	25
82	Novel small molecule inhibition of IKK/NFâ€Î°B activation reduces markers of senescence and improves healthspan in mouse models of aging. Aging Cell, 2021, 20, e13486.	3.0	24
83	Signal Transduction, Ageing and Disease. Sub-Cellular Biochemistry, 2019, 91, 227-247.	1.0	23
84	Oxidative stress-induced senescence markedly increases disc cell bioenergetics. Mechanisms of Ageing and Development, 2019, 180, 97-106.	2.2	22
85	Rare genetic coding variants associated with human longevity and protection against age-related diseases. Nature Aging, 2021, 1, 783-794.	5.3	22
86	Cyclin D1 suppresses retinoblastoma protein-mediated inhibition of TAFII250 kinase activity. Oncogene, 2000, 19, 5703-5711.	2.6	21
87	Murine models of accelerated aging and musculoskeletal disease. Bone, 2019, 125, 122-127.	1.4	20
88	Gene therapy for rheumatoid arthritis. Expert Opinion on Biological Therapy, 2001, 1, 971-978.	1.4	18
89	Attenuation of ataxia telangiectasia mutated signalling mitigates ageâ€associated intervertebral disc degeneration. Aging Cell, 2020, 19, e13162.	3.0	18
90	Intersection of immunometabolism and immunosenescence during aging. Current Opinion in Pharmacology, 2021, 57, 107-116.	1.7	17

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91	Orthopaedic Gene Therapy. JBJS Reviews, 2021, 9, .	0.8	16
92	miR-146a-5p modulates cellular senescence and apoptosis in visceral adipose tissue of long-lived Ames dwarf mice and in cultured pre-adipocytes. GeroScience, 2022, 44, 503-518.	2.1	15
93	Adenoviral transduction of human osteoblastic cell cultures: A new perspective for gene therapy of bone diseases. Acta Orthopaedica, 1999, 70, 419-424.	1.4	13
94	Creating the Next Generation of Translational Geroscientists. Journal of the American Geriatrics Society, 2019, 67, 1934-1939.	1.3	13
95	SA-β-Galactosidase-Based Screening Assay for the Identification of Senotherapeutic Drugs. Journal of Visualized Experiments, 2019, , .	0.2	13
96	Methods to Quantify the NF-ÎºB Pathway During Senescence. Methods in Molecular Biology, 2019, 1896, 231-250.	0.4	13
97	Genetic signature of human longevity in PKC and NFâ€ÎºB signaling. Aging Cell, 2021, 20, e13362.	3.0	12
98	Gene Therapy in Sports Medicine. Sports Medicine, 1998, 25, 73-77.	3.1	11
99	Quantitative Analysis of Cellular Senescence in Culture and In Vivo. Current Protocols in Cytometry, 2017, 79, 9.51.1-9.51.25.	3.7	10
100	Treating Age-Related Diseases with Somatic Stem Cells. Advances in Experimental Medicine and Biology, 2018, 1056, 29-45.	0.8	10
101	Comparison of Functional Protein Transduction Domains Using the NEMO Binding Domain Peptide. Pharmaceuticals, 2010, 3, 110-124.	1.7	8
102	The Ercc<i>1</i>-/Î" mouse model of accelerated senescence and aging for identification and testing of novel senotherapeutic interventions. Aging, 2020, 12, 24481-24483.	1.4	8
103	Adenoviral gene transfer of a singleâ€chain ILâ€23 induces psoriatic arthritisâ€"like symptoms in NOD mice. FASEB Journal, 2019, 33, 9505-9515.	0.2	7
104	Measuring biological age in mice using differential mass spectrometry. Aging, 2019, 11, 1045-1061.	1.4	7
105	Title is missing!. Journal of Neuro-Oncology, 2003, 64, 63-69.	1.4	5
106	Influences of circulatory factors on intervertebral disc aging phenotype. Aging, 2020, 12, 12285-12304.	1.4	5
107	Dendritic cell-based genetic immunization in mice with a recombinant adenovirus encoding murine TRP2 induces effective anti-melanoma immunity. , 1999, 1, 400.		3
108	HUMAN PERIPROSTHETIC TISSUES IMPLANTED IN SEVERE COMBINED IMMUNODEFICIENT MICE RESPOND TO GENE TRANSFER OF A CYTOKINE INHIBITOR. Journal of Bone and Joint Surgery - Series A, 2005, 87, 1088-1097.	1.4	3

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109	Dendritic cell-based genetic immunization in mice with a recombinant adenovirus encoding murine TRP2 induces effective anti-melanoma immunity. , 1999, 1, 400.		2
110	Heterochronic parabiosis: a valuable tool to investigate cellular senescence and other hallmarks of aging. Aging, 2022, 14, 3325-3328.	1.4	2
111	Targeting ATM to mitigate intervertebral disc degeneration. Aging, 2021, 13, 10814-10815.	1.4	1
112	Dendritic cell-based genetic immunization in mice with a recombinant adenovirus encoding murine TRP2 induces effective anti-melanoma immunity. , 1999, 1, 400.		1
113	Gene Therapy for Autoimmune Disorders. , 2010, , 295-310.		0
114	Suppression of Skeletal Muscle Inflammation by Muscle Stem Cells. FASEB Journal, 2012, 26, 1034.8.	0.2	0
115	Strategies for the Rejuvenation of Aged Muscle Stem Cells. FASEB Journal, 2012, 26, 914.3.	0.2	0