

Paul D Robbins

List of Publications by Citations

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112
papers

9,322
citations

45
h-index

96
g-index

118
ext. papers

12,254
ext. citations

9.1
avg, IF

5.98
L-index

#	Paper	IF	Citations
112	The Achilles heel of senescent cells: from transcriptome to senolytic drugs. <i>Aging Cell</i> , 2015 , 14, 644-58	9.9	987
111	Senolytics improve physical function and increase lifespan in old age. <i>Nature Medicine</i> , 2018 , 24, 1246-1256	56.5	776
110	Cellular Senescence: Defining a Path Forward. <i>Cell</i> , 2019 , 179, 813-827	56.2	646
109	Cellular senescence mediates fibrotic pulmonary disease. <i>Nature Communications</i> , 2017 , 8, 14532	17.4	616
108	Identification of a novel senolytic agent, navitoclax, targeting the Bcl-2 family of anti-apoptotic factors. <i>Aging Cell</i> , 2016 , 15, 428-35	9.9	463
107	Identification of HSP90 inhibitors as a novel class of senolytics. <i>Nature Communications</i> , 2017 , 8, 422	17.4	312
106	Fisetin is a senotherapeutic that extends health and lifespan. <i>EBioMedicine</i> , 2018 , 36, 18-28	8.8	298
105	The Clinical Potential of Senolytic Drugs. <i>Journal of the American Geriatrics Society</i> , 2017 , 65, 2297-2301	5.6	290
104	NF- κ B inhibition delays DNA damage-induced senescence and aging in mice. <i>Journal of Clinical Investigation</i> , 2012 , 122, 2601-12	15.9	290
103	New agents that target senescent cells: the flavone, fisetin, and the BCL-X inhibitors, A1331852 and A1155463. <i>Aging</i> , 2017 , 9, 955-963	5.6	286
102	Modulation of the biologic activity of the rabbit intervertebral disc by gene therapy: an in vivo study of adenovirus-mediated transfer of the human transforming growth factor beta 1 encoding gene. <i>Spine</i> , 1999 , 24, 2419-25	3.3	285
101	Retinoblastoma gene product activates expression of the human TGF-beta 2 gene through transcription factor ATF-2. <i>Nature</i> , 1992 , 358, 331-4	50.4	250
100	Clinical trial to assess the safety, feasibility, and efficacy of transferring a potentially anti-arthritic cytokine gene to human joints with rheumatoid arthritis. <i>Human Gene Therapy</i> , 1996 , 7, 1261-80	4.8	217
99	Gene transfer to human joints: progress toward a gene therapy of arthritis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 8698-703	11.5	163
98	Muscle-derived stem/progenitor cell dysfunction limits healthspan and lifespan in a murine progeria model. <i>Nature Communications</i> , 2012 , 3, 608	17.4	148
97	NF- κ B in Aging and Disease 2011 , 2, 449-65		140
96	Adenovirus-mediated gene transfer to nucleus pulposus cells. Implications for the treatment of intervertebral disc degeneration. <i>Spine</i> , 1998 , 23, 2437-42; discussion 2443	3.3	137

95	Ex vivo gene transfer to chondrocytes in full-thickness articular cartilage defects: a feasibility study. <i>Osteoarthritis and Cartilage</i> , 1997 , 5, 139-43	6.2	117
94	Interleukin 12 gene therapy of cancer by peritumoral injection of transduced autologous fibroblasts: outcome of a phase I study. <i>Human Gene Therapy</i> , 2001 , 12, 671-84	4.8	108
93	The oxidative DNA lesions 8,5Rcyclopurines accumulate with aging in a tissue-specific manner. <i>Aging Cell</i> , 2012 , 11, 714-6	9.9	104
92	Interleukin-1 receptor antagonist suppresses neurotrophin response in injured rat brain. <i>Annals of Neurology</i> , 1996 , 39, 123-7	9.4	99
91	Nuclear Genomic Instability and Aging. <i>Annual Review of Biochemistry</i> , 2018 , 87, 295-322	29.1	98
90	Adenovirus-mediated gene transfer of insulin-like growth factor 1 stimulates proteoglycan synthesis in rabbit joints. <i>Arthritis and Rheumatism</i> , 2000 , 43, 2563-70		95
89	Increased matrix synthesis following adenoviral transfer of a transforming growth factor beta1 gene into articular chondrocytes. <i>Journal of Orthopaedic Research</i> , 2000 , 18, 585-92	3.8	92
88	Dual transduction of insulin-like growth factor-I and interleukin-1 receptor antagonist protein controls cartilage degradation in an osteoarthritic culture model. <i>Journal of Orthopaedic Research</i> , 2005 , 23, 118-26	3.8	73
87	Transfer of lacZ marker gene to the meniscus. <i>Journal of Bone and Joint Surgery - Series A</i> , 1999 , 81, 918-35	3.5	73
86	A gene therapy approach to accelerating bone healing. Evaluation of gene expression in a New Zealand white rabbit model. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 1999 , 7, 197-202	5.5	72
85	An aged immune system drives senescence and ageing of solid organs. <i>Nature</i> , 2021 , 594, 100-105	50.4	72
84	Arthritis gene therapy & first death. <i>Arthritis Research and Therapy</i> , 2008 , 10, 110	5.7	70
83	Tissue specificity of senescent cell accumulation during physiologic and accelerated aging of mice. <i>Aging Cell</i> , 2020 , 19, e13094	9.9	69
82	Senotherapeutics for healthy ageing. <i>Nature Reviews Drug Discovery</i> , 2018 , 17, 377	64.1	64
81	Systemic clearance of p16 -positive senescent cells mitigates age-associated intervertebral disc degeneration. <i>Aging Cell</i> , 2019 , 18, e12927	9.9	62
80	Clinical responses to gene therapy in joints of two subjects with rheumatoid arthritis. <i>Human Gene Therapy</i> , 2009 , 20, 97-101	4.8	61
79	Dendritic cell-based genetic immunization in mice with a recombinant adenovirus encoding murine TRP2 induces effective anti-melanoma immunity. <i>Journal of Gene Medicine</i> , 1999 , 1, 400-6	3.5	61
78	Spontaneous DNA damage to the nuclear genome promotes senescence, redox imbalance and aging. <i>Redox Biology</i> , 2018 , 17, 259-273	11.3	60

77	Senolytics reduce coronavirus-related mortality in old mice. <i>Science</i> , 2021 , 373,	33.3	60
76	The 2003 Nicolas Andry Award. Orthopaedic gene therapy. <i>Clinical Orthopaedics and Related Research</i> , 2004 , 316-29	2.2	58
75	Adenoviral mediated delivery of FAS ligand to arthritic joints causes extensive apoptosis in the synovial lining. <i>Journal of Gene Medicine</i> , 2000 , 2, 210-9	3.5	54
74	Gene Delivery to Joints by Intra-Articular Injection. <i>Human Gene Therapy</i> , 2018 , 29, 2-14	4.8	54
73	Cyclin D1 associates with the TBP-associated factor TAF(II)250 to regulate Sp1-mediated transcription. <i>Oncogene</i> , 1999 , 18, 239-47	9.2	53
72	NF- κ B negatively impacts the myogenic potential of muscle-derived stem cells. <i>Molecular Therapy</i> , 2012 , 20, 661-8	11.7	52
71	Senolytic Drugs: Reducing Senescent Cell Viability to Extend Health Span. <i>Annual Review of Pharmacology and Toxicology</i> , 2021 , 61, 779-803	17.9	52
70	Getting arthritis gene therapy into the clinic. <i>Nature Reviews Rheumatology</i> , 2011 , 7, 244-9	8.1	51
69	Potential role of direct adenoviral gene transfer in enhancing fracture repair. <i>Clinical Orthopaedics and Related Research</i> , 2000 , S120-5	2.2	50
68	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
67	Fibrates as drugs with senolytic and autophagic activity for osteoarthritis therapy. <i>EBioMedicine</i> , 2019 , 45, 588-605	8.8	45
66	Extracellular vesicles and aging. <i>Stem Cell Investigation</i> , 2017 , 4, 98	5.1	43
65	Systemic delivery of NEMO binding domain/IKK β inhibitory peptide to young mdx mice improves dystrophic skeletal muscle histopathology. <i>Neurobiology of Disease</i> , 2011 , 43, 598-608	7.5	40
64	DNA damage-how and why we age?. <i>ELife</i> , 2021 , 10,	8.9	38
63	Effects of cytokine gene therapy on particulate-induced inflammation in the murine air pouch. <i>Inflammation</i> , 2001 , 25, 361-72	5.1	37
62	Gene transfer to the patellar tendon. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 1997 , 5, 118-23	5.5	36
61	Urinary Extracellular Vesicles Carrying Klotho Improve the Recovery of Renal Function in an Acute Tubular Injury Model. <i>Molecular Therapy</i> , 2020 , 28, 490-502	11.7	36
60	Hsp90 inhibitors as senolytic drugs to extend healthy aging. <i>Cell Cycle</i> , 2018 , 17, 1048-1055	4.7	35

59	Development of Clinical Trials to Extend Healthy Lifespan. <i>Cardiovascular Endocrinology and Metabolism</i> , 2018 , 7, 80-83	2.5	35
58	Broad cellular immunity with robust memory responses to simian immunodeficiency virus following serial vaccination with adenovirus 5- and 35-based vectors. <i>Journal of General Virology</i> , 2006 , 87, 139-149	4.9	34
57	Senolytic Combination of Dasatinib and Quercetin Alleviates Intestinal Senescence and Inflammation and Modulates the Gut Microbiome in Aged Mice. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2021 , 76, 1895-1905	6.4	34
56	Murine models of cancer cytokine gene therapy using interleukin-12. <i>Annals of the New York Academy of Sciences</i> , 1996 , 795, 275-83	6.5	32
55	Gene mediated insulin-like growth factor-I delivery to the synovium. <i>Journal of Orthopaedic Research</i> , 2001 , 19, 759-67	3.8	30
54	Cellular senescence in intervertebral disc aging and degeneration. <i>Current Molecular Biology Reports</i> , 2018 , 4, 180-190	2	30
53	Transfer of proalpha2(I) cDNA into cells of a murine model of human Osteogenesis Imperfecta restores synthesis of type I collagen comprised of alpha1(I) and alpha2(I) heterotrimers in vitro and in vivo. <i>Journal of Cellular Biochemistry</i> , 2001 , 83, 84-91	4.7	29
52	Genotoxic stress accelerates age-associated degenerative changes in intervertebral discs. <i>Mechanisms of Ageing and Development</i> , 2013 , 134, 35-42	5.6	27
51	ATM is a key driver of NF- κ B-dependent DNA-damage-induced senescence, stem cell dysfunction and aging. <i>Aging</i> , 2020 , 12, 4688-4710	5.6	26
50	Dysregulation of DAF-16/FOXO3A-mediated stress responses accelerates oxidative DNA damage induced aging. <i>Redox Biology</i> , 2018 , 18, 191-199	11.3	24
49	Rb interacts with TAF(II)250/TFIID through multiple domains. <i>Oncogene</i> , 1997 , 15, 385-92	9.2	24
48	Arthritis gene therapy is becoming a reality. <i>Nature Reviews Rheumatology</i> , 2018 , 14, 381-382	8.1	23
47	Rapamycin Rescues Age-Related Changes in Muscle-Derived Stem/Progenitor Cells from Progeroid Mice. <i>Molecular Therapy - Methods and Clinical Development</i> , 2019 , 14, 64-76	6.4	23
46	Development of novel NEMO-binding domain mimetics for inhibiting IKK/NF- κ B activation. <i>PLoS Biology</i> , 2018 , 16, e2004663	9.7	22
45	Pharmacologic IKK/NF- κ B inhibition causes antigen presenting cells to undergo TNF α -dependent ROS-mediated programmed cell death. <i>Scientific Reports</i> , 2014 , 4, 3631	4.9	22
44	Senescent intervertebral disc cells exhibit perturbed matrix homeostasis phenotype. <i>Mechanisms of Ageing and Development</i> , 2017 , 166, 16-23	5.6	19
43	Mesenchymal stem cell-derived extracellular vesicles reduce senescence and extend health span in mouse models of aging. <i>Aging Cell</i> , 2021 , 20, e13337	9.9	19
42	Cyclin D1 suppresses retinoblastoma protein-mediated inhibition of TAFII250 kinase activity. <i>Oncogene</i> , 2000 , 19, 5703-11	9.2	18

41	Signal Transduction, Ageing and Disease. <i>Sub-Cellular Biochemistry</i> , 2019 , 91, 227-247	5.5	17
40	Cytoskeleton stiffness regulates cellular senescence and innate immune response in Hutchinson-Gilford Progeria Syndrome. <i>Aging Cell</i> , 2020 , 19, e13152	9.9	16
39	Heterochronic parabiosis regulates the extent of cellular senescence in multiple tissues. <i>GeroScience</i> , 2020 , 42, 951-961	8.9	16
38	Mouse Models of Accelerated Cellular Senescence. <i>Methods in Molecular Biology</i> , 2019 , 1896, 203-230	1.4	14
37	Gene therapy for rheumatoid arthritis. <i>Expert Opinion on Biological Therapy</i> , 2001 , 1, 971-8	5.4	13
36	Quantitative Analysis of Cellular Senescence in Culture and In Vivo. <i>Current Protocols in Cytometry</i> , 2017 , 79, 9.51.1-9.51.25	3.6	10
35	Oxidative stress-induced senescence markedly increases disc cell bioenergetics. <i>Mechanisms of Ageing and Development</i> , 2019 , 180, 97-106	5.6	10
34	Gene therapy in sports medicine. <i>Sports Medicine</i> , 1998 , 25, 73-7	10.6	10
33	Adenoviral transduction of human osteoblastic cell cultures: a new perspective for gene therapy of bone diseases. <i>Acta Orthopaedica</i> , 1999 , 70, 419-24		10
32	Targeting Cellular Senescence with Senotherapeutics: Senolytics and Senomorphics.. <i>FEBS Journal</i> , 2022 ,	5.7	10
31	Genetics of extreme human longevity to guide drug discovery for healthy ageing. <i>Nature Metabolism</i> , 2020 , 2, 663-672	14.6	9
30	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	5.6	9
29	Murine models of accelerated aging and musculoskeletal disease. <i>Bone</i> , 2019 , 125, 122-127	4.7	7
28	Creating the Next Generation of Translational Geroscientists. <i>Journal of the American Geriatrics Society</i> , 2019 , 67, 1934-1939	5.6	7
27	Comparison of Functional Protein Transduction Domains Using the NEMO Binding Domain Peptide. <i>Pharmaceuticals</i> , 2010 , 3, 110-124	5.2	7
26	Methods to Quantify the NF-B Pathway During Senescence. <i>Methods in Molecular Biology</i> , 2019 , 1896, 231-250	1.4	7
25	Attenuation of ataxia telangiectasia mutated signalling mitigates age-associated intervertebral disc degeneration. <i>Aging Cell</i> , 2020 , 19, e13162	9.9	6
24	SA-EGalactosidase-Based Screening Assay for the Identification of Senotherapeutic Drugs. <i>Journal of Visualized Experiments</i> , 2019 ,	1.6	6

23	Treating Age-Related Diseases with Somatic Stem Cells. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1056, 29-45	3.6	5
22	Measuring biological age in mice using differential mass spectrometry. <i>Aging</i> , 2019 , 11, 1045-1061	5.6	5
21	Intersection of immunometabolism and immunosenescence during aging. <i>Current Opinion in Pharmacology</i> , 2021 , 57, 107-116	5.1	5
20	Adenoviral gene transfer of a single-chain IL-23 induces psoriatic arthritis-like symptoms in NOD mice. <i>FASEB Journal</i> , 2019 , 33, 9505-9515	0.9	4
19	Novel small molecule inhibition of IKK/NF- κ B activation reduces markers of senescence and improves healthspan in mouse models of aging. <i>Aging Cell</i> , 2021 , e13486	9.9	4
18	Recent advances in the discovery of senolytics. <i>Mechanisms of Ageing and Development</i> , 2021 , 200, 111587	5.7	4
17	Rare genetic coding variants associated with human longevity and protection against age-related diseases. <i>Nature Aging</i> , 2021 , 1, 783-794		4
16	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	5.6	4
15	Influences of circulatory factors on intervertebral disc aging phenotype. <i>Aging</i> , 2020 , 12, 12285-12304	5.6	3
14	HUMAN PERIPROSTHETIC TISSUES IMPLANTED IN SEVERE COMBINED IMMUNODEFICIENT MICE RESPOND TO GENE TRANSFER OF A CYTOKINE INHIBITOR. <i>Journal of Bone and Joint Surgery - Series A</i> , 2005 , 87, 1088-1097	5.6	3
13	Role of Cellular Senescence in Type II Diabetes. <i>Endocrinology</i> , 2021 , 162,	4.8	3
12	Orthopaedic Gene Therapy: Twenty-Five Years On. <i>JBJS Reviews</i> , 2021 , 9,	2.6	3
11	Dendritic cell-based genetic immunization in mice with a recombinant adenovirus encoding murine TRP2 induces effective anti-melanoma immunity 1999 , 1, 400		3
10	Targeted clearance of p21- but not p16-positive senescent cells prevents radiation-induced osteoporosis and increased marrow adiposity.. <i>Aging Cell</i> , 2022 , e13602	9.9	3
9	The Ercc mouse model of accelerated senescence and aging for identification and testing of novel senotherapeutic interventions. <i>Aging</i> , 2020 , 12, 24481-24483	5.6	2
8	Genetic signature of human longevity in PKC and NF- κ B signaling. <i>Aging Cell</i> , 2021 , 20, e13362	9.9	2
7	Dendritic cell-based genetic immunization in mice with a recombinant adenovirus encoding murine TRP2 induces effective anti-melanoma immunity 1999 , 1, 400		2
6	Expression of a Soluble Transforming Growth Factor- β receptor reduces tumorigenicity by regulating natural killer (NK) cell activity against 9L gliosarcoma in vivo. <i>Journal of Neuro-Oncology</i> , 2003 , 64, 63-69	4.8	1

- 5 miR-146a-5p modulates cellular senescence and apoptosis in visceral adipose tissue of long-lived Ames dwarf mice and in cultured pre-adipocytes. *GeroScience*, **2021**, 1 8.9 1
- 4 Dendritic cell-based genetic immunization in mice with a recombinant adenovirus encoding murine TRP2 induces effective anti-melanoma immunity **1999**, 1, 400 1
- 3 Gene Therapy for Autoimmune Disorders **2010**, 295-310
- 2 Suppression of Skeletal Muscle Inflammation by Muscle Stem Cells. *FASEB Journal*, **2012**, 26, 1034.8 0.9
- 1 Strategies for the Rejuvenation of Aged Muscle Stem Cells. *FASEB Journal*, **2012**, 26, 914.3 0.9