John M Sedivy

List of Publications by Year
in descending order

76 papers	13,477 citations	53794 45 h-index	82547 72 g-index
92 all docs	92 docs citations	92 times ranked	15267 citing authors

#	Article	IF	Citations
1	Sirt6 regulates lifespan in <i>Drosophila melanogaster</i>. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	29
2	Fibroblast Senescence: A Risk Factor for Remodeling, Inflammation, and Arrhythmias in the Postâ€MI Heart. FASEB Journal, 2022, 36, .	0.5	0
3	Inflammation, epigenetics, and metabolism converge to cell senescence and ageing: the regulation and intervention. Signal Transduction and Targeted Therapy, 2021, 6, 245.	17.1	119
4	Phase separation of the LINE-1 ORF1 protein is mediated by the N-terminus and coiled-coil domain. Biophysical Journal, 2021, 120, 2181-2191.	0.5	32
5	The role of retrotransposable elements in ageing and age-associated diseases. Nature, 2021, 596, 43-53.	27.8	156
6	CD38 ecto-enzyme in immune cells is induced during aging and regulates NAD+ and NMN levels. Nature Metabolism, 2020, 2, 1284-1304.	11.9	157
7	L1 drives HSC aging and affects prognosis of chronic myelomonocytic leukemia. Signal Transduction and Targeted Therapy, 2020, 5, 205.	17.1	1
8	Cellular Senescence: Defining a Path Forward. Cell, 2019, 179, 813-827.	28.9	1,551
9	Enhancing Autophagy Diminishes Aberrant Ca2+ Homeostasis and Arrhythmogenesis in Aging Rabbit Hearts. Frontiers in Physiology, 2019, 10, 1277.	2.8	12
10	LINE1 Derepression in Aged Wild-Type and SIRT6-Deficient Mice Drives Inflammation. Cell Metabolism, 2019, 29, 871-885.e5.	16.2	299
11	SLC1A5 glutamine transporter is a target of MYC and mediates reduced mTORC1 signaling and increased fatty acid oxidation in longâ€lived <i>Myc</i> hypomorphic mice. Aging Cell, 2019, 18, e12947.	6.7	39
12	L1 drives IFN in senescent cells and promotes age-associated inflammation. Nature, 2019, 566, 73-78.	27.8	701
13	Regulation of Cellular Senescence by Polycomb Chromatin Modifiers through Distinct DNA Damage- and Histone Methylation-Dependent Pathways. Cell Reports, 2018, 22, 3480-3492.	6.4	161
14	Do senescence markers correlate in vitro and in situ within individual human donors?. Aging, 2018, 10, 278-289.	3.1	16
15	The Role of Myofibroblast Senescence in Arrhythmogenesis of the Aged Infarcted Heart. FASEB Journal, 2018, 32, 717.13.	0.5	0
16	Contribution of Retrotransposable Elements to Aging. , 2017, , 297-321.		3
17	Developmental Regulation of Mitochondrial Apoptosis by c-Myc Governs Age- and Tissue-Specific Sensitivity to Cancer Therapeutics. Cancer Cell, 2017, 31, 142-156.	16.8	190
18	Systemic Age-Associated DNA Hypermethylation of ELOVL2 Gene: In Vivo and In Vitro Evidences of a Cell Replication Process. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2017, 72, 1015-1023.	3.6	66

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19	The dark side of circulating nucleic acids. Aging Cell, 2016, 15, 398-399.	6.7	45
20	Mitochondria: Masters of Epigenetics. Cell, 2016, 165, 1052-1054.	28.9	19
21	DNA Hypomethylation and Histone Variant macroH2A1 Synergistically Attenuate Chemotherapy-Induced Senescence to Promote Hepatocellular Carcinoma Progression. Cancer Research, 2016, 76, 594-606.	0.9	76
22	Reorganization of chromosome architecture in replicative cellular senescence. Science Advances, 2016, 2, e1500882.	10.3	122
23	DNA damage markers in dermal fibroblasts in vitro reflect chronological donor age. Aging, 2016, 8, 147-155.	3.1	17
24	Interventions to Slow Aging in Humans: Are We Ready?. Aging Cell, 2015, 14, 497-510.	6.7	481
25	Active Degradation Explains the Distribution of Nuclear Proteins during Cellular Senescence. PLoS ONE, 2015, 10, e0118442.	2.5	2
26	Reduced Expression of MYC Increases Longevity and Enhances Healthspan. Cell, 2015, 160, 477-488.	28.9	238
27	Sleeping dogs of the genome. Science, 2014, 346, 1187-1188.	12.6	54
28	The effects of aging on the expression of Wnt pathway genes in mouse tissues. Age, 2014, 36, 9618.	3.0	50
29	A comparison of oncogene-induced senescence and replicative senescence: implications for tumor suppression and aging. Age, 2014, 36, 9637.	3.0	41
30	Transcriptional landscape of repetitive elements in normal and cancer human cells. BMC Genomics, 2014, 15, 583.	2.8	233
31	Why do we grow old: is it because our cells just wear out, we run out of cells (or both), and what can we do about it?. Longevity & Healthspan, 2013, 2, 7.	6.7	1
32	Genomes of replicatively senescent cells undergo global epigenetic changes leading to gene silencing and activation of transposable elements. Aging Cell, 2013, 12, 247-256.	6.7	355
33	Death by transposition â€“ the enemy within?. BioEssays, 2013, 35, 1035-1043.	2.5	53
34	Transposable elements become active and mobile in the genomes of aging mammalian somatic tissues. Aging, 2013, 5, 867-883.	3.1	280
35	How to measure RNA expression in rare senescent cells expressing any specific protein such as p16Ink4a. Aging, 2013, 5, 120-129.	3.1	9
36	The number of p16INK4a positive cells in human skin reflects biological age. Aging Cell, 2012, 11, 722-725.	6.7	200

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37	Ageâ€associated increase in heterochromatic marks in murine and primate tissues. Aging Cell, 2011, 10, 292-304.	6.7	131
38	Epigenetic Control of Aging. Antioxidants and Redox Signaling, 2011, 14, 241-259.	5.4	102
39	Kinetic profiling of the c-Myc transcriptome and bioinformatic analysis of repressed gene promoters. Cell Cycle, 2011, 10, 2184-2196.	2.6	38
40	Phosphatidylenthanolamine Binding Protein aka Raf Kinase Inhibitor Protein: A Brief History of Its Discovery and the Remarkable Diversity of Biological Functions. Forum on Immunopathological Diseases and Therapeutics, 2011, 2, 1-12.	0.1	4
41	Nuclear protein accumulation in cellular senescence and organismal aging revealed with a novel single-cell resolution fluorescence microscopy assay. Aging, 2011, 3, 955-967.	3.1	35
42	Proteomic profiling of Myc-associated proteinsÂ. Cell Cycle, 2010, 9, 4908-4921.	2.6	63
43	How Does Proliferative Homeostasis Change With Age? What Causes It and How Does It Contribute to Aging?. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2009, 64A, 164-166.	3.6	39
44	How to learn new and interesting things from model systems based on "exotic" biological species. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 19207-19208.	7.1	13
45	Real-time imaging of transcriptional activation in live cells reveals rapid up-regulation of the cyclin-dependent kinase inhibitor gene CDKN1A in replicative cellular senescence. Aging Cell, 2008, 2, 295-304.	6.7	42
46	Aging by epigeneticsâ€"A consequence of chromatin damage?. Experimental Cell Research, 2008, 314, 1909-1917.	2.6	143
47	Cellular senescence and organismal aging. Mechanisms of Ageing and Development, 2008, 129, 467-474.	4.6	325
48	Analysis of cell cycle phases and progression in cultured mammalian cells. Methods, 2007, 41, 143-150.	3.8	87
49	Telomeres Limit Cancer Growth by Inducing Senescence: Long-Sought In Vivo Evidence Obtained. Cancer Cell, 2007, 11, 389-391.	16.8	40
50	Accumulation of senescent cells in mitotic tissue of aging primates. Mechanisms of Ageing and Development, 2007, 128, 36-44.	4.6	511
51	Cellular Senescence in Aging Primates. Science, 2006, 311, 1257-1257.	12.6	910
52	Regulation of growth arrest in senescence: Telomere damage is not the end of the story. Mechanisms of Ageing and Development, 2006, 127, 16-24.	4.6	152
53	Cellular Senescence, Epigenetic Switches and c-Myc. Cell Cycle, 2006, 5, 2319-2323.	2.6	29
54	Reduced c-Myc signaling triggers telomere-independent senescence by regulating Bmi-1 and p16INK4a. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 3645-3650.	7.1	162

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55	Stress response gene ATF3 is a target of câ€myc in serumâ€induced cell proliferation. FASEB Journal, 2006, 20, A37.	0.5	0
56	Stochastic Variation in Telomere Shortening Rate Causes Heterogeneity of Human Fibroblast Replicative Life Span. Journal of Biological Chemistry, 2004, 279, 17826-17833.	3.4	124
57	Telomere Shortening Triggers Senescence of Human Cells through a Pathway Involving ATM, p53, and p21CIP1, but Not p16INK4a. Molecular Cell, 2004, 14, 501-513.	9.7	1,128
58	Engineering the serine/threonine protein kinase Raf-1 to utilise an orthogonal analogue of ATP substituted at the N 6 position. FEBS Letters, 2004, 556, 26-34.	2.8	23
59	Involvement of the INK4a/Arf gene locus in senescence. Aging Cell, 2003, 2, 145-150.	6.7	100
60	Loss of retinoblastoma but not p16 function allows bypass of replicative senescence in human fibroblasts. EMBO Reports, 2003, 4, 1061-1065.	4.5	76
61	Abolition of Cyclin-Dependent Kinase Inhibitor p16 Ink4a and p21 Cip1/Waf1 Functions Permits Ras-Induced Anchorage-Independent Growth in Telomerase-Immortalized Human Fibroblasts. Molecular and Cellular Biology, 2003, 23, 2859-2870.	2.3	70
62	Loss of Protooncogene c-Myc Function Impedes G1 Phase Progression Both before and after the Restriction Point. Molecular Biology of the Cell, 2003, 14, 823-835.	2.1	47
63	Telomerase Expression in Normal Human Fibroblasts Stabilizes DNA 5-Methylcytosine Transferase I. Journal of Biological Chemistry, 2003, 278, 19904-19908.	3.4	58
64	Somatic Cell Knockouts of Tumor Suppressor Genes. , 2003, 223, 187-206.		2
65	Loss of retinoblastoma but not p16 function allows bypass of replicative senescence in human fibroblasts. EMBO Reports, 2003, 4, 1061-1065.	4.5	33
66	Formation of higher-order nuclear Rad51 structures is functionally linked to p21 expression and protection from DNA damage-induced apoptosis. Journal of Cell Science, 2002, 115, 153-164.	2.0	81
67	Raf Kinase Inhibitor Protein Interacts with NF-Î°B-Inducing Kinase and TAK1 and Inhibits NF-Î°B Activation. Molecular and Cellular Biology, 2001, 21, 7207-7217.	2.3	368
68	Role of p14 ARF in Replicative and Induced Senescence of Human Fibroblasts. Molecular and Cellular Biology, 2001, 21, 6748-6757.	2.3	220
69	Suppression of Raf-1 kinase activity and MAP kinase signalling by RKIP. Nature, 1999, 401, 173-177.	27.8	808
70	Mysterious liaisons: the relationship between c-Myc and the cell cycle. Oncogene, 1999, 18, 2934-2941.	5.9	201
71	Gene targeting and somatic cell genetics: a rebirth or a coming of age?. Trends in Genetics, 1999, 15, 88-90.	6.7	112
72	Differentiation between Senescence (M1) and Crisis (M2) in Human Fibroblast Cultures. Experimental Cell Research, 1999, 253, 519-522.	2.6	108

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73	c-Myc Regulates Cyclin D-Cdk4 and -Cdk6 Activity but Affects Cell Cycle Progression at Multiple Independent Points. Molecular and Cellular Biology, 1999, 19, 4672-4683.	2.3	296
74	Can ends justify the means?: Telomeres and the mechanisms of replicative senescence and immortalization in mammalian cells. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 9078-9081.	7.1	175
75	Biphasic Regulation of the Preproendothelin-1 Gene by c-myc*. Endocrinology, 1997, 138, 4584-4590.	2.8	13
76	Bypass of Senescence After Disruption of p21 ^{<i>CIP1/WAF1</i>} Gene in Normal Diploid Human Fibroblasts. Science, 1997, 277, 831-834.	12.6	767