

Andrei Seluanov

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8808733/publications.pdf>

Version: 2024-02-01

116
papers

11,892
citations

30047

54
h-index

31818

101
g-index

132
all docs

132
docs citations

132
times ranked

14563
citing authors

#	ARTICLE	IF	CITATIONS
1	Ten things you should know about transposable elements. <i>Genome Biology</i> , 2018, 19, 199.	3.8	817
2	SIRT6 Promotes DNA Repair Under Stress by Activating PARP1. <i>Science</i> , 2011, 332, 1443-1446.	6.0	717
3	L1 drives IFN in senescent cells and promotes age-associated inflammation. <i>Nature</i> , 2019, 566, 73-78.	13.7	701
4	High-molecular-mass hyaluronan mediates the cancer resistance of the naked mole rat. <i>Nature</i> , 2013, 499, 346-349.	13.7	612
5	DNA repair by nonhomologous end joining and homologous recombination during cell cycle in human cells. <i>Cell Cycle</i> , 2008, 7, 2902-2906.	1.3	515
6	Comparison of nonhomologous end joining and homologous recombination in human cells. <i>DNA Repair</i> , 2008, 7, 1765-1771.	1.3	500
7	SIRT6 represses LINE1 retrotransposons by ribosylating KAP1 but this repression fails with stress and age. <i>Nature Communications</i> , 2014, 5, 5011.	5.8	319
8	Changes in DNA repair during aging. <i>Nucleic Acids Research</i> , 2007, 35, 7466-7474.	6.5	306
9	Hypersensitivity to contact inhibition provides a clue to cancer resistance of naked mole-rat. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 19352-19357.	3.3	305
10	LINE1 Derepression in Aged Wild-Type and SIRT6-Deficient Mice Drives Inflammation. <i>Cell Metabolism</i> , 2019, 29, 871-885.e5.	7.2	299
11	Establishing Primary Adult Fibroblast Cultures From Rodents. <i>Journal of Visualized Experiments</i> , 2010, , .	0.2	241
12	DNA end joining becomes less efficient and more error-prone during cellular senescence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 7624-7629.	3.3	240
13	SIRT6 Is Responsible for More Efficient DNA Double-Strand Break Repair in Long-Lived Species. <i>Cell</i> , 2019, 177, 622-638.e22.	13.5	225
14	Expression of Human Telomerase (hTERT) Does Not Prevent Stress-induced Senescence in Normal Human Fibroblasts but Protects the Cells from Stress-induced Apoptosis and Necrosis. <i>Journal of Biological Chemistry</i> , 2002, 277, 38540-38549.	1.6	210
15	Mechanisms of cancer resistance in long-lived mammals. <i>Nature Reviews Cancer</i> , 2018, 18, 433-441.	12.8	195
16	Telomerase activity coevolves with body mass not lifespan. <i>Aging Cell</i> , 2007, 6, 45-52.	3.0	187
17	Comparative genetics of longevity and cancer: insights from long-lived rodents. <i>Nature Reviews Genetics</i> , 2014, 15, 531-540.	7.7	169
18	Sirtuin 6 (SIRT6) rescues the decline of homologous recombination repair during replicative senescence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 11800-11805.	3.3	162

#	ARTICLE	IF	CITATIONS
19	The role of retrotransposable elements in ageing and age-associated diseases. <i>Nature</i> , 2021, 596, 43-53.	13.7	156
20	FtsY, the Prokaryotic Signal Recognition Particle Receptor Homologue, Is Essential for Biogenesis of Membrane Proteins. <i>Journal of Biological Chemistry</i> , 1997, 272, 2053-2055.	1.6	146
21	Change of the Death Pathway in Senescent Human Fibroblasts in Response to DNA Damage Is Caused by an Inability To Stabilize p53. <i>Molecular and Cellular Biology</i> , 2001, 21, 1552-1564.	1.1	141
22	DNA repair in species with extreme lifespan differences. <i>Aging</i> , 2015, 7, 1171-1182.	1.4	132
23	Naked mole-rat has increased translational fidelity compared with the mouse, as well as a unique 28S ribosomal RNA cleavage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 17350-17355.	3.3	131
24	SIRT6 overexpression induces massive apoptosis in cancer cells but not in normal cells. <i>Cell Cycle</i> , 2011, 10, 3153-3158.	1.3	130
25	Cancer resistance in the blind mole rat is mediated by concerted necrotic cell death mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 19392-19396.	3.3	128
26	Genome-wide adaptive complexes to underground stresses in blind mole rats <i>Spalax</i> . <i>Nature Communications</i> , 2014, 5, 3966.	5.8	124
27	SQSTM1/p62 mediates crosstalk between autophagy and the UPS in DNA repair. <i>Autophagy</i> , 2016, 12, 1917-1930.	4.3	120
28	Rodents for comparative aging studies: from mice to beavers. <i>Age</i> , 2008, 30, 111-119.	3.0	108
29	JNK Phosphorylates SIRT6 to Stimulate DNA Double-Strand Break Repair in Response to Oxidative Stress by Recruiting PARP1 to DNA Breaks. <i>Cell Reports</i> , 2016, 16, 2641-2650.	2.9	104
30	Distinct tumor suppressor mechanisms evolve in rodent species that differ in size and lifespan. <i>Aging Cell</i> , 2008, 7, 813-823.	3.0	103
31	SIRT6 rescues the age related decline in base excision repair in a PARP1-dependent manner. <i>Cell Cycle</i> , 2015, 14, 269-276.	1.3	96
32	TRF2 is required for repair of nontelomeric DNA double-strand breaks by homologous recombination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 13068-13073.	3.3	95
33	Coevolution of telomerase activity and body mass in mammals: From mice to beavers. <i>Mechanisms of Ageing and Development</i> , 2009, 130, 3-9.	2.2	95
34	Knock-In Reporter Mice Demonstrate that DNA Repair by Non-homologous End Joining Declines with Age. <i>PLoS Genetics</i> , 2014, 10, e1004511.	1.5	95
35	Replicatively senescent cells are arrested in G1 and G2 phases. <i>Aging</i> , 2012, 4, 431-435.	1.4	94
36	<i>INK4</i> locus of the tumor-resistant rodent, the naked mole rat, expresses a functional p15/p16 hybrid isoform. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 1053-1058.	3.3	92

#	ARTICLE	IF	CITATIONS
37	Cell Divisions Are Required for L1 Retrotransposition. <i>Molecular and Cellular Biology</i> , 2007, 27, 1264-1270.	1.1	91
38	DNA Repair by Homologous Recombination, But Not by Nonhomologous End Joining, Is Elevated in Breast Cancer Cells. <i>Neoplasia</i> , 2009, 11, 683-IN3.	2.3	90
39	The World Goes Bats: Living Longer and Tolerating Viruses. <i>Cell Metabolism</i> , 2020, 32, 31-43.	7.2	89
40	Analysis of DNA Double-strand Break (DSB) Repair in Mammalian Cells. <i>Journal of Visualized Experiments</i> , 2010, , .	0.2	88
41	Genome-wide demethylation destabilizes CTG-CAG trinucleotide repeats in mammalian cells. <i>Human Molecular Genetics</i> , 2004, 13, 2979-2989.	1.4	81
42	Molecular Mechanisms Determining Lifespan in Short- and Long-Lived Species. <i>Trends in Endocrinology and Metabolism</i> , 2017, 28, 722-734.	3.1	81
43	Use of the Rad51 promoter for targeted anti-cancer therapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 20810-20815.	3.3	79
44	DNA double strand break repair, aging and the chromatin connection. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2016, 788, 2-6.	0.4	73
45	The Naked Mole Rat Genome Resource: facilitating analyses of cancer and longevity-related adaptations. <i>Bioinformatics</i> , 2014, 30, 3558-3560.	1.8	71
46	Naked Mole Rat Cells Have a Stable Epigenome that Resists iPSC Reprogramming. <i>Stem Cell Reports</i> , 2017, 9, 1721-1734.	2.3	71
47	Making ends meet in old age: DSB repair and aging. <i>Mechanisms of Ageing and Development</i> , 2005, 126, 621-628.	2.2	70
48	Cell culture-based profiling across mammals reveals DNA repair and metabolism as determinants of species longevity. <i>ELife</i> , 2016, 5, .	2.8	69
49	Naked mole rats can undergo developmental, oncogene-induced and DNA damage-induced cellular senescence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 1801-1806.	3.3	67
50	Naked mole-rat very-high-molecular-mass hyaluronan exhibits superior cytoprotective properties. <i>Nature Communications</i> , 2020, 11, 2376.	5.8	67
51	Evolution of telomere maintenance and tumour suppressor mechanisms across mammals. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20160443.	1.8	64
52	The conundrum of human immune system "senescence". <i>Mechanisms of Ageing and Development</i> , 2020, 192, 111357.	2.2	64
53	SIRT6 promotes transcription of a subset of NRF2 targets by mono-ADP-ribosylating BAF170. <i>Nucleic Acids Research</i> , 2019, 47, 7914-7928.	6.5	62
54	The naked truth: a comprehensive clarification and classification of current "myths" in naked mole-rat biology. <i>Biological Reviews</i> , 2022, 97, 115-140.	4.7	62

#	ARTICLE	IF	CITATIONS
55	Changes in the level and distribution of Ku proteins during cellular senescence. <i>DNA Repair</i> , 2007, 6, 1740-1748.	1.3	60
56	Lipidome determinants of maximal lifespan in mammals. <i>Scientific Reports</i> , 2017, 7, 5.	1.6	60
57	Comparative analysis of genome maintenance genes in naked mole rat, mouse, and human. <i>Aging Cell</i> , 2015, 14, 288-291.	3.0	58
58	Repairing split ends: SIRT6, mono-ADP ribosylation and DNA repair. <i>Aging</i> , 2011, 3, 829-835.	1.4	57
59	Organization of the Mammalian Ionome According to Organ Origin, Lineage Specialization, and Longevity. <i>Cell Reports</i> , 2015, 13, 1319-1326.	2.9	56
60	DNA damage and repair in age-related inflammation. <i>Nature Reviews Immunology</i> , 2023, 23, 75-89.	10.6	56
61	Translation fidelity coevolves with longevity. <i>Aging Cell</i> , 2017, 16, 988-993.	3.0	53
62	Radiosensitization by Histone H3 Demethylase Inhibition in Diffuse Intrinsic Pontine Glioma. <i>Clinical Cancer Research</i> , 2019, 25, 5572-5583.	3.2	52
63	Compromised DNA repair is responsible for diabetes-associated fibrosis. <i>EMBO Journal</i> , 2020, 39, e103477.	3.5	49
64	Evidence That High Telomerase Activity May Induce a Senescent-like Growth Arrest in Human Fibroblasts. <i>Journal of Biological Chemistry</i> , 2003, 278, 7692-7698.	1.6	48
65	DNA methylation clocks tick in naked mole rats but queens age more slowly than nonbreeders. <i>Nature Aging</i> , 2022, 2, 46-59.	5.3	47
66	OUP accepted manuscript. <i>Nucleic Acids Research</i> , 2019, 47, 8563-8580.	6.5	46
67	Sirtuin 6: linking longevity with genome and epigenome stability. <i>Trends in Cell Biology</i> , 2021, 31, 994-1006.	3.6	45
68	Transposon-triggered innate immune response confers cancer resistance to the blind mole rat. <i>Nature Immunology</i> , 2021, 22, 1219-1230.	7.0	45
69	Interspecies Differences in Proteome Turnover Kinetics Are Correlated With Life Spans and Energetic Demands. <i>Molecular and Cellular Proteomics</i> , 2021, 20, 100041.	2.5	44
70	Evidence for coupling of membrane targeting and function of the signal recognition particle (SRP) receptor FtsY. <i>EMBO Reports</i> , 2001, 2, 1040-1046.	2.0	42
71	Telomerase as a Growth-Promoting Factor. <i>Cell Cycle</i> , 2003, 2, 534-537.	1.3	40
72	Selectable System for Monitoring the Instability of CTG/CAG Triplet Repeats in Mammalian Cells. <i>Molecular and Cellular Biology</i> , 2003, 23, 4485-4493.	1.1	40

#	ARTICLE	IF	CITATIONS
73	Cross-species Comparison of Proteome Turnover Kinetics. <i>Molecular and Cellular Proteomics</i> , 2018, 17, 580-591.	2.5	40
74	Naked mole rat cells display more efficient excision repair than mouse cells. <i>Aging</i> , 2018, 10, 1454-1473.	1.4	38
75	Chaperonin-promoted Post-translational Membrane Insertion of a Multispanning Membrane Protein Lactose Permease. <i>Journal of Biological Chemistry</i> , 1996, 271, 22256-22261.	1.6	36
76	Long-lived cancer-resistant rodents as new model species for cancer research. <i>Frontiers in Genetics</i> , 2012, 3, 319.	1.1	35
77	Non-canonical aging model systems and why we need them. <i>EMBO Journal</i> , 2017, 36, 959-963.	3.5	34
78	Rad51 Promoter-Targeted Gene Therapy Is Effective for In Vivo Visualization and Treatment of Cancer. <i>Molecular Therapy</i> , 2012, 20, 347-355.	3.7	33
79	Comparative transcriptomics reveals circadian and pluripotency networks as two pillars of longevity regulation. <i>Cell Metabolism</i> , 2022, 34, 836-856.e5.	7.2	33
80	SIRT6 mono-ADP ribosylates KDM2A to locally increase H3K36me2 at DNA damage sites to inhibit transcription and promote repair. <i>Aging</i> , 2020, 12, 11165-11184.	1.4	29
81	Maintenance of genome sequence integrity in long- and short-lived rodent species. <i>Science Advances</i> , 2021, 7, eabj3284.	4.7	29
82	Sirt6 regulates lifespan in <i>Drosophila melanogaster</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	29
83	Pericellular Brush and Mechanics of Guinea Pig Fibroblast Cells Studied with AFM. <i>Biophysical Journal</i> , 2016, 111, 236-246.	0.2	26
84	Beaver and Naked Mole Rat Genomes Reveal Common Paths to Longevity. <i>Cell Reports</i> , 2020, 32, 107949.	2.9	26
85	Epigenetic aging of the demographically non-aging naked mole-rat. <i>Nature Communications</i> , 2022, 13, 355.	5.8	26
86	Mitochondrial Inverted Repeats Strongly Correlate with Lifespan: mtDNA Inversions and Aging. <i>PLoS ONE</i> , 2013, 8, e73318.	1.1	25
87	Regulation of Rad51 promoter. <i>Cell Cycle</i> , 2014, 13, 2038-2045.	1.3	21
88	IGF1R levels in the brain negatively correlate with longevity in 16 rodent species. <i>Aging</i> , 2013, 5, 304-314.	1.4	17
89	CLK-1 protein has DNA binding activity specific to OLregion of mitochondrial DNA. <i>FEBS Letters</i> , 2002, 516, 279-284.	1.3	16
90	Genome-wide demethylation promotes triplet repeat instability independently of homologous recombination. <i>DNA Repair</i> , 2008, 7, 313-320.	1.3	16

#	ARTICLE	IF	CITATIONS
91	Adenoviral Vector Driven by a Minimal Rad51 Promoter Is Selective for p53-Deficient Tumor Cells. PLoS ONE, 2011, 6, e28714.	1.1	15
92	Matters of size: Roles of hyaluronan in CNS aging and disease. Ageing Research Reviews, 2021, 72, 101485.	5.0	15
93	Dangerous Entrapment for NRF2. Cell, 2016, 165, 1312-1313.	13.5	13
94	Short-term calorie restriction enhances DNA repair by non-homologous end joining in mice. Npj Aging and Mechanisms of Disease, 2020, 6, 9.	4.5	13
95	Novel husbandry techniques support survival of naked mole rat (<i>Heterocephalus glaber</i>) pups. Journal of the American Association for Laboratory Animal Science, 2014, 53, 89-91.	0.6	13
96	Revelations About Aging and Disease from Unconventional Vertebrate Model Organisms. Annual Review of Genetics, 2021, 55, 135-159.	3.2	12
97	Ectopic cervical thymi and no thymic involution until midlife in naked mole rats. Aging Cell, 2021, 20, e13477.	3.0	12
98	Characterization of naked mole-rat hematopoiesis reveals unique stem and progenitor cell patterns and neotenic traits. EMBO Journal, 2022, 41, .	3.5	12
99	SIRT6: A Promising Target for Cancer Prevention and Therapy. Advances in Experimental Medicine and Biology, 2014, 818, 181-196.	0.8	11
100	Naked mole-rats are extremely resistant to post-traumatic osteoarthritis. Aging Cell, 2020, 19, e13255.	3.0	11
101	Reply to: Transformation of naked mole-rat cells. Nature, 2020, 583, E8-E13.	13.7	11
102	Sensitivity of primary fibroblasts in culture to atmospheric oxygen does not correlate with species lifespan. Aging, 2016, 8, 841-847.	1.4	10
103	Accurate Proteomewide Measurement of Methionine Oxidation in Aging Mouse Brains. Journal of Proteome Research, 2022, 21, 1495-1509.	1.8	10
104	Hyaluronan goes to great length. Cell Stress, 2020, 4, 227-229.	1.4	9
105	Proteomics of Long-Lived Mammals. Proteomics, 2020, 20, 1800416.	1.3	8
106	Genomic expansion of Aldh1a1 protects beavers against high metabolic aldehydes from lipid oxidation. Cell Reports, 2021, 37, 109965.	2.9	7
107	Beyond Making Ends Meet: DNA-PK, Metabolism, and Aging. Cell Metabolism, 2017, 25, 991-992.	7.2	6
108	Forever young? Exploring the link between rapamycin, longevity and cancer. Cell Cycle, 2012, 11, 4296-4297.	1.3	5

#	ARTICLE	IF	CITATIONS
109	Accurate translation is important for longevity. <i>Aging</i> , 2018, 10, 297-298.	1.4	5
110	Utilization of Rad51C promoter for transcriptional targeting of cancer cells. <i>Oncotarget</i> , 2014, 5, 1805-1811.	0.8	5
111	Skin Aging in Long-Lived Naked Mole-Rats Is Accompanied by Increased Expression of Longevity-Associated and Tumor Suppressor Genes. <i>Journal of Investigative Dermatology</i> , 2022, 142, 2853-2863.e4.	0.3	5
112	A hairy tale: <sc>SIRT</sc> 7 safeguards skin stem cells during aging. <i>EMBO Journal</i> , 2020, 39, e106294.	3.5	3
113	Long-lived fish in a big pond. <i>Science</i> , 2021, 374, 824-825.	6.0	3
114	Comparative Biology of Aging. , 2016, , 305-324.		2
115	The 2021 FASEB science research conference on NAD metabolism and signaling. <i>Aging</i> , 2021, 13, 24924-24930.	1.4	1
116	A Comparison of Senescence in Mouse and Human Cells. , 2010, , 175-197.		0