

Vera Gorbunova

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

140
papers

9,036
citations

50
h-index

93
g-index

159
ext. papers

11,424
ext. citations

11.8
avg, IF

6.13
L-index

#	Paper	IF	Citations
140	Sirt6 regulates lifespan in .. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119,	11.5	7
139	Epigenetic aging of the demographically non-aging naked mole-rat.. <i>Nature Communications</i> , 2022 , 13, 355	17.4	2
138	DNA methylation clocks tick in naked mole rats but queens age more slowly than nonbreeders.. <i>Nature Aging</i> , 2022 , 2, 46-59		9
137	Comparative transcriptomics reveals circadian and pluripotency networks as two pillars of longevity regulation.. <i>Cell Metabolism</i> , 2022 ,	24.6	1
136	Local non-pituitary growth hormone is induced with aging and facilitates epithelial damage.. <i>Cell Reports</i> , 2021 , 37, 110068	10.6	0
135	Long-lived fish in a big pond. <i>Science</i> , 2021 , 374, 824-825	33.3	2
134	Genomic expansion of Aldh1a1 protects beavers against high metabolic aldehydes from lipid oxidation. <i>Cell Reports</i> , 2021 , 37, 109965	10.6	2
133	Matters of size: Roles of hyaluronan in CNS aging and disease. <i>Ageing Research Reviews</i> , 2021 , 72, 101485	5.2	0
132	Maintenance of genome sequence integrity in long- and short-lived rodent species. <i>Science Advances</i> , 2021 , 7, eabj3284	14.3	2
131	Evolution of mammalian longevity: age-related increase in autophagy in bats compared to other mammals. <i>Aging</i> , 2021 , 13, 7998-8025	5.6	4
130	Sirtuin 6: linking longevity with genome and epigenome stability. <i>Trends in Cell Biology</i> , 2021 , 31, 994-1008	10.3	4
129	Naked mole rat TRF1 safeguards glycolytic capacity and telomere replication under low oxygen. <i>Science Advances</i> , 2021 , 7,	14.3	4
128	Revelations About Aging and Disease from Unconventional Vertebrate Model Organisms. <i>Annual Review of Genetics</i> , 2021 , 55, 135-159	14.5	1
127	The role of retrotransposable elements in ageing and age-associated diseases. <i>Nature</i> , 2021 , 596, 43-53	50.4	26
126	The naked truth: a comprehensive clarification and classification of current myths in naked mole-rat biology. <i>Biological Reviews</i> , 2021 ,	13.5	11
125	Transposon-triggered innate immune response confers cancer resistance to the blind mole rat. <i>Nature Immunology</i> , 2021 , 22, 1219-1230	19.1	8
124	Rare genetic coding variants associated with human longevity and protection against age-related diseases. <i>Nature Aging</i> , 2021 , 1, 783-794		4

123	Ectopic cervical thymi and no thymic involution until midlife in naked mole rats. <i>Aging Cell</i> , 2021 , 20, e13477	4.7	5
122	Molecular insights into anatomy and physiology 2021 , 299-307		1
121	Interspecies Differences in Proteome Turnover Kinetics Are Correlated With Life Spans and Energetic Demands. <i>Molecular and Cellular Proteomics</i> , 2021 , 20, 100041	7.6	14
120	Compromised DNA repair is responsible for diabetes-associated fibrosis. <i>EMBO Journal</i> , 2020 , 39, e103473	4.7	24
119	Naked mole-rat very-high-molecular-mass hyaluronan exhibits superior cytoprotective properties. <i>Nature Communications</i> , 2020 , 11, 2376	17.4	30
118	The World Goes Bats: Living Longer and Tolerating Viruses. <i>Cell Metabolism</i> , 2020 , 32, 31-43	24.6	38
117	Reply to: Transformation of naked mole-rat cells. <i>Nature</i> , 2020 , 583, E8-E13	50.4	5
116	A hairy tale: SIRT7 safeguards skin stem cells during aging. <i>EMBO Journal</i> , 2020 , 39, e106294	13	2
115	Hyaluronan goes to great length. <i>Cell Stress</i> , 2020 , 4, 227-229	5.5	3
114	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	5.6	16
113	ARDD 2020: from aging mechanisms to interventions. <i>Aging</i> , 2020 , 12, 24484-24503	5.6	11
112	Proteomics of Long-Lived Mammals. <i>Proteomics</i> , 2020 , 20, e1800416	4.8	3
111	The conundrum of human immune system "senescence". <i>Mechanisms of Ageing and Development</i> , 2020 , 192, 111357	5.6	25
110	Lack of consensus on an aging biology paradigm? A global survey reveals an agreement to disagree, and the need for an interdisciplinary framework. <i>Mechanisms of Ageing and Development</i> , 2020 , 191, 111316	5.6	26
109	Beaver and Naked Mole Rat Genomes Reveal Common Paths to Longevity. <i>Cell Reports</i> , 2020 , 32, 107949	10.6	10
108	Genetics of extreme human longevity to guide drug discovery for healthy ageing. <i>Nature Metabolism</i> , 2020 , 2, 663-672	14.6	9
107	Naked mole-rats are extremely resistant to post-traumatic osteoarthritis. <i>Aging Cell</i> , 2020 , 19, e13255	9.9	4
106	Short-term calorie restriction enhances DNA repair by non-homologous end joining in mice. <i>Npj Aging and Mechanisms of Disease</i> , 2020 , 6, 9	5.5	8

105	SIRT6 promotes transcription of a subset of NRF2 targets by mono-ADP-ribosylating BAF170. <i>Nucleic Acids Research</i> , 2019 , 47, 7914-7928	20.1	36
104	Radiosensitization by Histone H3 Demethylase Inhibition in Diffuse Intrinsic Pontine Glioma. <i>Clinical Cancer Research</i> , 2019 , 25, 5572-5583	12.9	19
103	SIRT6 Is Responsible for More Efficient DNA Double-Strand Break Repair in Long-Lived Species. <i>Cell</i> , 2019 , 177, 622-638.e22	56.2	120
102	LINE1 Derepression in Aged Wild-Type and SIRT6-Deficient Mice Drives Inflammation. <i>Cell Metabolism</i> , 2019 , 29, 871-885.e5	24.6	138
101	L1 drives IFN in senescent cells and promotes age-associated inflammation. <i>Nature</i> , 2019 , 566, 73-78	50.4	364
100	Excess growth hormone suppresses DNA damage repair in epithelial cells. <i>JCI Insight</i> , 2019 , 4,	9.9	21
99	A PARP1-BRG1-SIRT1 axis promotes HR repair by reducing nucleosome density at DNA damage sites. <i>Nucleic Acids Research</i> , 2019 , 47, 8563-8580	20.1	24
98	IDH1-R132H acts as a tumor suppressor in glioma via epigenetic up-regulation of the DNA damage response. <i>Science Translational Medicine</i> , 2019 , 11,	17.5	98
97	Mechanisms of cancer resistance in long-lived mammals. <i>Nature Reviews Cancer</i> , 2018 , 18, 433-441	31.3	104
96	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	11.5	44
95	Cross-species Comparison of Proteome Turnover Kinetics. <i>Molecular and Cellular Proteomics</i> , 2018 , 17, 580-591	7.6	28
94	Evolution of telomere maintenance and tumour suppressor mechanisms across mammals. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018 , 373,	5.8	40
93	Accurate translation is important for longevity. <i>Aging</i> , 2018 , 10, 297-298	5.6	3
92	Naked mole rat cells display more efficient excision repair than mouse cells. <i>Aging</i> , 2018 , 10, 1454-1473	5.6	21
91	Haploinsufficiency of dramatically extends the lifespan of Sirt6-deficient mice. <i>ELife</i> , 2018 , 7,	8.9	26
90	DIPG-63. RADIATION DNA DAMAGE REPAIR INHIBITION BY GSK-J4 INDUCED CHROMATIN COMPACTION IN DIPG. <i>Neuro-Oncology</i> , 2018 , 20, i61-i62	1	78
89	PDTM-05. RADIATION DNA DAMAGE REPAIR INHIBITION BY GSK-J4 INDUCED CHROMATIN COMPACTION IN DIPG. <i>Neuro-Oncology</i> , 2018 , 20, vi204-vi204	1	78
88	Ten things you should know about transposable elements. <i>Genome Biology</i> , 2018 , 19, 199	18.3	372

87	Beyond Making Ends Meet: DNA-PK, Metabolism, and Aging. <i>Cell Metabolism</i> , 2017 , 25, 991-992	24.6	3
86	Ubiquitin Modification by the E3 Ligase/ADP-Ribosyltransferase Dtx3L/Parp9. <i>Molecular Cell</i> , 2017 , 66, 503-516.e5	17.6	84
85	Lipidome determinants of maximal lifespan in mammals. <i>Scientific Reports</i> , 2017 , 7, 5	4.9	37
84	A conserved NAD binding pocket that regulates protein-protein interactions during aging. <i>Science</i> , 2017 , 355, 1312-1317	33.3	102
83	Non-canonical aging model systems and why we need them. <i>EMBO Journal</i> , 2017 , 36, 959-963	13	27
82	Naked Mole Rat Cells Have a Stable Epigenome that Resists iPSC Reprogramming. <i>Stem Cell Reports</i> , 2017 , 9, 1721-1734	8	45
81	A review of the biomedical innovations for healthy longevity. <i>Aging</i> , 2017 , 9, 7-25	5.6	18
80	Molecular Mechanisms Determining Lifespan in Short- and Long-Lived Species. <i>Trends in Endocrinology and Metabolism</i> , 2017 , 28, 722-734	8.8	45
79	Translation fidelity coevolves with longevity. <i>Aging Cell</i> , 2017 , 16, 988-993	9.9	42
78	Gene expression and mutation-guided synthetic lethality eradicates proliferating and quiescent leukemia cells. <i>Journal of Clinical Investigation</i> , 2017 , 127, 2392-2406	15.9	49
77	ATRX loss promotes tumor growth and impairs nonhomologous end joining DNA repair in glioma. <i>Science Translational Medicine</i> , 2016 , 8, 328ra28	17.5	146
76	Dangerous Entrapment for NRF2. <i>Cell</i> , 2016 , 165, 1312-1313	56.2	7
75	Comparative Biology of Aging 2016 , 305-324		2
74	DNA double strand break repair, aging and the chromatin connection. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2016 , 788, 2-6	3.3	51
73	Sensitivity of primary fibroblasts in culture to atmospheric oxygen does not correlate with species lifespan. <i>Aging</i> , 2016 , 8, 841-7	5.6	8
72	Cell culture-based profiling across mammals reveals DNA repair and metabolism as determinants of species longevity. <i>ELife</i> , 2016 , 5,	8.9	42
71	SQSTM1/p62 mediates crosstalk between autophagy and the UPS in DNA repair. <i>Autophagy</i> , 2016 , 12, 1917-1930	10.2	93
70	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	10.6	70

69	Pericellular Brush and Mechanics of Guinea Pig Fibroblast Cells Studied with AFM. <i>Biophysical Journal</i> , 2016 , 111, 236-46	2.9	14
68	SIRT6 rescues the age related decline in base excision repair in a PARP1-dependent manner. <i>Cell Cycle</i> , 2015 , 14, 269-76	4.7	74
67	DNA repair in species with extreme lifespan differences. <i>Aging</i> , 2015 , 7, 1171-84	5.6	102
66	The Insulin-Like Growth Factor System in the Long-Lived Naked Mole-Rat. <i>PLoS ONE</i> , 2015 , 10, e0145587	3.7	11
65	Comparative analysis of genome maintenance genes in naked mole rat, mouse, and human. <i>Aging Cell</i> , 2015 , 14, 288-91	9.9	42
64	Organization of the Mammalian Ionome According to Organ Origin, Lineage Specialization, and Longevity. <i>Cell Reports</i> , 2015 , 13, 1319-1326	10.6	43
63	INK4 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, 1053-8	11.5	66
62	SIRT6 represses LINE1 retrotransposons by ribosylating KAP1 but this repression fails with stress and age. <i>Nature Communications</i> , 2014 , 5, 5011	17.4	233
61	Comparative genetics of longevity and cancer: insights from long-lived rodents. <i>Nature Reviews Genetics</i> , 2014 , 15, 531-40	30.1	129
60	Genome-wide adaptive complexes to underground stresses in blind mole rats <i>Spalax</i> . <i>Nature Communications</i> , 2014 , 5, 3966	17.4	101
59	Knock-in reporter mice demonstrate that DNA repair by non-homologous end joining declines with age. <i>PLoS Genetics</i> , 2014 , 10, e1004511	6	65
58	Human Genomics. Sleeping dogs of the genome. <i>Science</i> , 2014 , 346, 1187-8	33.3	35
57	The Naked Mole Rat Genome Resource: facilitating analyses of cancer and longevity-related adaptations. <i>Bioinformatics</i> , 2014 , 30, 3558-60	7.2	62
56	SIRT6: a promising target for cancer prevention and therapy. <i>Advances in Experimental Medicine and Biology</i> , 2014 , 818, 181-96	3.6	9
55	Regulation of Rad51 promoter. <i>Cell Cycle</i> , 2014 , 13, 2038-45	4.7	19
54	Utilization of Rad51C promoter for transcriptional targeting of cancer cells. <i>Oncotarget</i> , 2014 , 5, 1805-11	3.3	5
53	Novel husbandry techniques support survival of naked mole rat (<i>Heterocephalus glaber</i>) pups. <i>Journal of the American Association for Laboratory Animal Science</i> , 2014 , 53, 89-91	1.3	8
52	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, 17350-5	11.5	103

51	Brief report: a human induced pluripotent stem cell model of cernunnos deficiency reveals an important role for XLF in the survival of the primitive hematopoietic progenitors. <i>Stem Cells</i> , 2013 , 31, 2015-23	5.8	14
50	Enhanced cellular radiosensitivity induced by cofilin-1 over-expression is associated with reduced DNA repair capacity. <i>International Journal of Radiation Biology</i> , 2013 , 89, 433-44	2.9	11
49	High-molecular-mass hyaluronan mediates the cancer resistance of the naked mole rat. <i>Nature</i> , 2013 , 499, 346-9	50.4	470
48	Mitochondrial inverted repeats strongly correlate with lifespan: mtDNA inversions and aging. <i>PLoS ONE</i> , 2013 , 8, e73318	3.7	23
47	P21-PARP-1 pathway is involved in cigarette smoke-induced lung DNA damage and cellular senescence. <i>PLoS ONE</i> , 2013 , 8, e80007	3.7	26
46	IGF1R levels in the brain negatively correlate with longevity in 16 rodent species. <i>Aging</i> , 2013 , 5, 304-14	5.6	12
45	SIRT1 as a therapeutic target in inflammaging of the pulmonary disease. <i>Preventive Medicine</i> , 2012 , 54 Suppl, S20-8	4.3	82
44	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, 19392-6	11.5	93
43	Rad51 promoter-targeted gene therapy is effective for in vivo visualization and treatment of cancer. <i>Molecular Therapy</i> , 2012 , 20, 347-55	11.7	28
42	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, 11800-5	11.5	126
41	Replicatively senescent cells are arrested in G1 and G2 phases. <i>Aging</i> , 2012 , 4, 431-5	5.6	76
40	SIRT6 promotes DNA repair under stress by activating PARP1. <i>Science</i> , 2011 , 332, 1443-6	33.3	585
39	Adenoviral vector driven by a minimal Rad51 promoter is selective for p53-deficient tumor cells. <i>PLoS ONE</i> , 2011 , 6, e28714	3.7	14
38	SIRT6 overexpression induces massive apoptosis in cancer cells but not in normal cells. <i>Cell Cycle</i> , 2011 , 10, 3153-8	4.7	113
37	Repairing split ends: SIRT6, mono-ADP ribosylation and DNA repair. <i>Aging</i> , 2011 , 3, 829-35	5.6	49
36	Establishing primary adult fibroblast cultures from rodents. <i>Journal of Visualized Experiments</i> , 2010 ,	1.6	177
35	Analysis of DNA double-strand break (DSB) repair in mammalian cells. <i>Journal of Visualized Experiments</i> , 2010 ,	1.6	70
34	A Comparison of Senescence in Mouse and Human Cells 2010 , 175-197		

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	5.6	73
32	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, 19352-7	11.5	241
31	DNA repair by homologous recombination, but not by nonhomologous end joining, is elevated in breast cancer cells. <i>Neoplasia</i> , 2009 , 11, 683-91	6.4	75
30	Distinct tumor suppressor mechanisms evolve in rodent species that differ in size and lifespan. <i>Aging Cell</i> , 2008 , 7, 813-23	9.9	85
29	Genome-wide demethylation promotes triplet repeat instability independently of homologous recombination. <i>DNA Repair</i> , 2008 , 7, 313-20	4.3	14
28	Comparison of nonhomologous end joining and homologous recombination in human cells. <i>DNA Repair</i> , 2008 , 7, 1765-71	4.3	367
27	DNA repair by nonhomologous end joining and homologous recombination during cell cycle in human cells. <i>Cell Cycle</i> , 2008 , 7, 2902-6	4.7	392
26	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, 20810-5	11.5	69
25	Rodents for comparative aging studies: from mice to beavers. <i>Age</i> , 2008 , 30, 111-9		83
24	Telomerase activity coevolves with body mass not lifespan. <i>Aging Cell</i> , 2007 , 6, 45-52	9.9	157
23	Changes in the level and distribution of Ku proteins during cellular senescence. <i>DNA Repair</i> , 2007 , 6, 1740-8	4.3	48
22	Changes in DNA repair during aging. <i>Nucleic Acids Research</i> , 2007 , 35, 7466-74	20.1	242
21	Cell divisions are required for L1 retrotransposition. <i>Molecular and Cellular Biology</i> , 2007 , 27, 1264-70	4.8	75
20	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, 13068-73	11.5	83
19	Making ends meet in old age: DSB repair and aging. <i>Mechanisms of Ageing and Development</i> , 2005 , 126, 621-8	5.6	66
18	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, 7624-9	11.5	216
17	Genome-wide demethylation destabilizes CTG.CAG trinucleotide repeats in mammalian cells. <i>Human Molecular Genetics</i> , 2004 , 13, 2979-89	5.6	76
16	Telomerase as a growth-promoting factor. <i>Cell Cycle</i> , 2003 , 2, 534-7	4.7	39

15	Selectable system for monitoring the instability of CTG/CAG triplet repeats in mammalian cells. <i>Molecular and Cellular Biology</i> , 2003 , 23, 4485-93	4.8	33
14	Evidence that high telomerase activity may induce a senescent-like growth arrest in human fibroblasts. <i>Journal of Biological Chemistry</i> , 2003 , 278, 7692-8	5.4	39
13	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, 38540-9	5.4	183
12	CLK-1 protein has DNA binding activity specific to O(L) region of mitochondrial DNA. <i>FEBS Letters</i> , 2002 , 516, 279-84	3.8	10
11	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, 1552-64	4.8	128
10	A new hyperrecombinogenic mutant of <i>Nicotiana tabacum</i> . <i>Plant Journal</i> , 2000 , 24, 601-11	6.9	29
9	Analysis of extrachromosomal Ac/Ds transposable elements. <i>Genetics</i> , 2000 , 155, 349-59	4	27
8	How plants make ends meet: DNA double-strand break repair. <i>Trends in Plant Science</i> , 1999 , 4, 263-269	13.1	196
7	Circularized Ac/Ds transposons: formation, structure and fate. <i>Genetics</i> , 1997 , 145, 1161-9	4	27
6	Interspecies differences in proteome turnover kinetics are correlated with lifespans and energetic demands		1
5	Dampened PI3K/AKT signaling contributes to cancer resistance of the naked mole rat		2
4	The hematopoietic landscape at single-cell resolution reveals unexpected stem cell features in naked mole-rats		2
3	DNA methylation clocks show slower progression of aging in naked mole-rat queens		3
2	Universal DNA methylation age across mammalian tissues		31
1	A rare human centenarian variant of SIRT6 enhances genome stability and interaction with Lamin A		2