Vadim N Gladyshev

List of Publications by Citations

176 papers	11,066 citations	52 h-index	103 g-index
192 ext. papers	14,013 ext. citations	10.2 avg, IF	6.82 L-index

#	Paper	IF	Citations
176	Characterization of mammalian selenoproteomes. *Science*, **2003**, 300, 1439-43	33.3	1741
175	Selenoproteins: molecular pathways and physiological roles. *Physiological Reviews*, **2014**, 94, 739-77	47.9	661
174	How selenium has altered our understanding of the genetic code. *Molecular and Cellular Biology*, **2002**, 22, 3565-76	4.8	538
173	Selenium and selenocysteine: roles in cancer, health, and development. *Trends in Biochemical Sciences*, **2014**, 39, 112-20	10.3	431
172	Genome sequencing reveals insights into physiology and longevity of the naked mole rat. *Nature*, **2011**, 479, 223-7	50.4	410
171	Methionine sulfoxide reduction in mammals: characterization of methionine-R-sulfoxide reductases. *Molecular Biology of the Cell*, **2004**, 15, 1055-64	3.5	251
170	DNA methylation aging clocks: challenges and recommendations. *Genome Biology*, **2019**, 20, 249	18.3	248
169	Eukaryotic selenoproteins and selenoproteomes. *Biochimica Et Biophysica Acta - General Subjects*, **2009**, 1790, 1424-8	4	228
168	Genome-wide ribosome profiling reveals complex translational regulation in response to oxidative stress. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 17394-9	11.5	209
167	Using DNA Methylation Profiling to Evaluate Biological Age and Longevity Interventions. *Cell Metabolism*, **2017**, 25, 954-960.e6	24.6	196
166	Translation inhibitors cause abnormalities in ribosome profiling experiments. *Nucleic Acids Research* , **2014**, 42, e134	20.1	192
165	The prokaryotic selenoproteome. *EMBO Reports*, **2004**, 5, 538-43	6.5	189
164	Composition and evolution of the vertebrate and mammalian selenoproteomes. *PLoS ONE*, **2012**, 7, e33066	3.7	172
163	Genome analysis reveals insights into physiology and longevity of the Brandt's bat Myotis brandtii. *Nature Communications*, **2013**, 4, 2212	17.4	160
162	MsrB1 and MICALs regulate actin assembly and macrophage function via reversible stereoselective methionine oxidation. *Molecular Cell*, **2013**, 51, 397-404	17.6	154
161	Evolutionary dynamics of eukaryotic selenoproteomes: large selenoproteomes may associate with aquatic life and small with terrestrial life. *Genome Biology*, **2007**, 8, R198	18.3	154
160	Selenoprotein Gene Nomenclature. *Journal of Biological Chemistry*, **2016**, 291, 24036-24040	5.4	147

159	The free radical theory of aging is dead. Long live the damage theory!. *Antioxidants and Redox Signaling*, **2014**, 20, 727-31	8.4	142
158	LINE1 Derepression in Aged Wild-Type and SIRT6-Deficient Mice Drives Inflammation. *Cell Metabolism*, **2019**, 29, 871-885.e5	24.6	138
157	Functions and evolution of selenoprotein methionine sulfoxide reductases. *Biochimica Et Biophysica Acta - General Subjects*, **2009**, 1790, 1471-7	4	131
156	Comparative genetics of longevity and cancer: insights from long-lived rodents. *Nature Reviews Genetics*, **2014**, 15, 531-40	30.1	129
155	Reprogramming to recover youthful epigenetic information and restore vision. *Nature*, **2020**, 588, 124-129	50.4	128
154	Adaptations to a subterranean environment and longevity revealed by the analysis of mole rat genomes. *Cell Reports*, **2014**, 8, 1354-64	10.6	124
153	SIRT6 Is Responsible for More Efficient DNA Double-Strand Break Repair in Long-Lived Species. *Cell* , **2019**, 177, 622-638.e22	56.2	120
152	Glutathione peroxidase 4 and vitamin E cooperatively prevent hepatocellular degeneration. *Redox Biology*, **2016**, 9, 22-31	11.3	116
151	Aging: progressive decline in fitness due to the rising deleteriome adjusted by genetic, environmental, and stochastic processes. *Aging Cell*, **2016**, 15, 594-602	9.9	115
150	Dynamic evolution of selenocysteine utilization in bacteria: a balance between selenoprotein loss and evolution of selenocysteine from redox active cysteine residues. *Genome Biology*, **2006**, 7, R94	18.3	114
149	Selective rescue of selenoprotein expression in mice lacking a highly specialized methyl group in selenocysteine tRNA. *Journal of Biological Chemistry*, **2005**, 280, 5542-8	5.4	114
148	Mechanisms of cancer resistance in long-lived mammals. *Nature Reviews Cancer*, **2018**, 18, 433-441	31.3	104
147	DNA repair in species with extreme lifespan differences. *Aging*, **2015**, 7, 1171-84	5.6	102
146	Gene expression defines natural changes in mammalian lifespan. *Aging Cell*, **2015**, 14, 352-65	9.9	92
145	Ribonuclease selection for ribosome profiling. *Nucleic Acids Research*, **2017**, 45, e6	20.1	91
144	An algorithm for identification of bacterial selenocysteine insertion sequence elements and selenoprotein genes. *Bioinformatics*, **2005**, 21, 2580-9	7.2	90
143	The biological significance of methionine sulfoxide stereochemistry. *Free Radical Biology and Medicine*, **2011**, 50, 221-7	7.8	87
142	Role of reactive oxygen species-mediated signaling in aging. *Antioxidants and Redox Signaling*, **2013** , 19, 1362-72	8.4	83

141	Evolution of selenium utilization traits. *Genome Biology*, **2005**, 6, R66	18.3	80
140	A whole lifespan mouse multi-tissue DNA methylation clock. *ELife*, **2018**, 7,	8.9	75
139	Organization of the Mammalian Metabolome according to Organ Function, Lineage Specialization, and Longevity. *Cell Metabolism*, **2015**, 22, 332-43	24.6	68
138	Functional analysis of free methionine-R-sulfoxide reductase from Saccharomyces cerevisiae. *Journal of Biological Chemistry*, **2009**, 284, 4354-64	5.4	68
137	INK4 locus of the tumor-resistant rodent, the naked mole rat, expresses a functional p15/p16 hybrid isoform. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 1053-8	11.5	66
136	The origin of aging: imperfectness-driven non-random damage defines the aging process and control of lifespan. *Trends in Genetics*, **2013**, 29, 506-12	8.5	66
135	SECISearch3 and Seblastian: new tools for prediction of SECIS elements and selenoproteins. *Nucleic Acids Research*, **2013**, 41, e149	20.1	66
134	Integrating cellular senescence with the concept of damage accumulation in aging: Relevance for clearance of senescent cells. *Aging Cell*, **2019**, 18, e12841	9.9	64
133	Methionine sulfoxide reductases preferentially reduce unfolded oxidized proteins and protect cells from oxidative protein unfolding. *Journal of Biological Chemistry*, **2012**, 287, 24448-59	5.4	63
132	Protein synthesis and quality control in aging. *Aging*, **2018**, 10, 4269-4288	5.6	60
131	Analysis of cancer genomes reveals basic features of human aging and its role in cancer development. *Nature Communications*, **2016**, 7, 12157	17.4	58
130	Identification and Application of Gene Expression Signatures Associated with Lifespan Extension. *Cell Metabolism*, **2019**, 30, 573-593.e8	24.6	55
129	Molecular signatures of longevity: Insights from cross-species comparative studies. *Seminars in Cell and Developmental Biology*, **2017**, 70, 190-203	7.5	54
128	Comprehensive variation discovery and recovery of missing sequence in the pig genome using multiple de novo assemblies. *Genome Research*, **2017**, 27, 865-874	9.7	54
127	COVID-19 is an emergent disease of aging. *Aging Cell*, **2020**, 19, e13230	9.9	53
126	Regulation of protein function by reversible methionine oxidation and the role of selenoprotein MsrB1. *Antioxidants and Redox Signaling*, **2015**, 23, 814-22	8.4	52
125	NEDD9 targets to promote endothelial fibrosis and pulmonary arterial hypertension. *Science Translational Medicine*, **2018**, 10,	17.5	52
124	The transcriptome of the bowhead whale Balaena mysticetus reveals adaptations of the longest-lived mammal. *Aging*, **2014**, 6, 879-99	5.6	46

123	Regulated methionine oxidation by monooxygenases. *Free Radical Biology and Medicine*, **2017**, 109, 141-155	7.5	45
122	Mitochondrial redox sensing by the kinase ATM maintains cellular antioxidant capacity. *Science Signaling*, **2018**, 11,	8.8	45
121	Human Gut Microbiome Aging Clock Based on Taxonomic Profiling and Deep Learning. *IScience*, **2020**, 23, 101199	6.1	44
120	Naked mole rats can undergo developmental, oncogene-induced and DNA damage-induced cellular senescence. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 1801-1806	11.5	44
119	Age- and diet-associated metabolome remodeling characterizes the aging process driven by damage accumulation. *ELife*, **2014**, 3, e02077	8.9	44
118	Monitoring methionine sulfoxide with stereospecific mechanism-based fluorescent sensors. *Nature Chemical Biology*, **2015**, 11, 332-8	11.7	43
117	Organization of the Mammalian Ionome According to Organ Origin, Lineage Specialization, and Longevity. *Cell Reports*, **2015**, 13, 1319-1326	10.6	43
116	Translation fidelity coevolves with longevity. *Aging Cell*, **2017**, 16, 988-993	9.9	42
115	Comparative analysis of genome maintenance genes in naked mole rat, mouse, and human. *Aging Cell*, **2015**, 14, 288-91	9.9	42
114	Cell culture-based profiling across mammals reveals DNA repair and metabolism as determinants of species longevity. *ELife*, **2016**, 5,	8.9	42
113	Evidence that mutation accumulation does not cause aging in Saccharomyces cerevisiae. *Aging Cell*, **2015**, 14, 366-71	9.9	41
112	Mammals reduce methionine-S-sulfoxide with MsrA and are unable to reduce methionine-R-sulfoxide, and this function can be restored with a yeast reductase. *Journal of Biological Chemistry*, **2008**, 283, 28361-9	5.4	40
111	Non-enzymatic molecular damage as a prototypic driver of aging. *Journal of Biological Chemistry*, **2017**, 292, 6029-6038	5.4	39
110	Evolution of selenophosphate synthetases: emergence and relocation of function through independent duplications and recurrent subfunctionalization. *Genome Research*, **2015**, 25, 1256-67	9.7	39
109	Population genomics of finless porpoises reveal an incipient cetacean species adapted to freshwater. *Nature Communications*, **2018**, 9, 1276	17.4	37
108	Role of Selenof as a Gatekeeper of Secreted Disulfide-Rich Glycoproteins. *Cell Reports*, **2018**, 23, 1387-1398	9.6	36
107	Selenium Deficiency Is Associated with Pro-longevity Mechanisms. *Cell Reports*, **2019**, 27, 2785-2797.e3	10.6	35
106	Global remodeling of the mouse DNA methylome during aging and in response to calorie restriction. *Aging Cell*, **2018**, 17, e12738	9.9	34

105	Biohorology and biomarkers of aging: Current state-of-the-art, challenges and opportunities. *Ageing Research Reviews*, **2020**, 60, 101050	12	33
104	Selenoprotein H is an essential regulator of redox homeostasis that cooperates with p53 in development and tumorigenesis. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E5562-71	11.5	33
103	Population Genomics Reveals Low Genetic Diversity and Adaptation to Hypoxia in Snub-Nosed Monkeys. *Molecular Biology and Evolution*, **2016**, 33, 2670-81	8.3	33
102	Comparative transcriptomics of 5 high-altitude vertebrates and their low-altitude relatives. *GigaScience*, **2017**, 6, 1-9	7.6	32
101	Lokiarchaeota Marks the Transition between the Archaeal and Eukaryotic Selenocysteine Encoding Systems. *Molecular Biology and Evolution*, **2016**, 33, 2441-53	8.3	31
100	The 15kDa selenoprotein and thioredoxin reductase 1 promote colon cancer by different pathways. *PLoS ONE*, **2015**, 10, e0124487	3.7	31
99	Universal DNA methylation age across mammalian tissues		31
98	Selenoproteins in colon cancer. *Free Radical Biology and Medicine*, **2018**, 127, 14-25	7.8	30
97	Human microbiome aging clocks based on deep learning and tandem of permutation feature importance and accumulated local effects		29
96	Utilization of selenocysteine in early-branching fungal phyla. *Nature Microbiology*, **2019**, 4, 759-765	26.6	28
95	Gene expression signatures of human cell and tissue longevity. *Npj Aging and Mechanisms of Disease*, **2016**, 2, 16014	5.5	28
94	On the cause of aging and control of lifespan: heterogeneity leads to inevitable damage accumulation, causing aging; control of damage composition and rate of accumulation define lifespan. *BioEssays*, **2012**, 34, 925-9	4.1	26
93	Selenophosphate synthetase 1 is an essential protein with roles in regulation of redox homoeostasis in mammals. *Biochemical Journal*, **2016**, 473, 2141-54	3.8	25
92	Deficiency of the 15-kDa selenoprotein led to cytoskeleton remodeling and non-apoptotic membrane blebbing through a RhoA/ROCK pathway. *Biochemical and Biophysical Research Communications*, **2015**, 456, 884-90	3.4	24
91	Multifaceted deregulation of gene expression and protein synthesis with age. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 15581-15590	11.5	22
90	Patterns of Aging Biomarkers, Mortality, and Damaging Mutations Illuminate the Beginning of Aging and Causes of Early-Life Mortality. *Cell Reports*, **2019**, 29, 4276-4284.e3	10.6	22
89	Selenium and selenoprotein deficiencies induce widespread pyogranuloma formation in mice, while high levels of dietary selenium decrease liver tumor size driven by TGF *PLoS ONE*, **2013**, 8, e57389	3.7	21
88	N6-adenosine methylation of ribosomal RNA affects lipid oxidation and stress resistance. *Science Advances*, **2020**, 6, eaaz4370	14.3	20

87	Convergent evolution of marine mammals is associated with distinct substitutions in common genes. *Scientific Reports*, **2015**, 5, 16550	4.9	20
86	Comparative transcriptomics across 14 Drosophila species reveals signatures of longevity. *Aging Cell*, **2018**, 17, e12740	9.9	19
85	A Tale of Two Concepts: Harmonizing the Free Radical and Antagonistic Pleiotropy Theories of Aging. *Antioxidants and Redox Signaling*, **2018**, 29, 1003-1017	8.4	19
84	Adjustments, extinction, and remains of selenocysteine incorporation machinery in the nematode lineage. *Rna*, **2014**, 20, 1023-34	5.8	19
83	Cell Proliferation and Motility Are Inhibited by G1 Phase Arrest in 15-kDa Selenoprotein-Deficient Chang Liver Cells. *Molecules and Cells*, **2015**, 38, 457-65	3.5	18
82	Molecular Footprints of Aquatic Adaptation Including Bone Mass Changes in Cetaceans. *Genome Biology and Evolution*, **2018**, 10, 967-975	3.9	17
81	Naked Mole Rat Induced Pluripotent Stem Cells and Their Contribution to Interspecific Chimera. *Stem Cell Reports*, **2017**, 9, 1706-1720	8	17
80	Differences in Redox Regulatory Systems in Human Lung and Liver Tumors Suggest Different Avenues for Therapy. *Cancers*, **2015**, 7, 2262-76	6.6	17
79	Epigenetic clocks reveal a rejuvenation event during embryogenesis followed by aging. *Science Advances*, **2021**, 7,	14.3	17
78	Comparison of the redox chemistry of sulfur- and selenium-containing analogs of uracil. *Free Radical Biology and Medicine*, **2017**, 104, 249-261	7.8	16
77	svist4get: a simple visualization tool for genomic tracks from sequencing experiments. *BMC Bioinformatics*, **2019**, 20, 113	3.6	16
76	Aging and drug discovery. *Aging*, **2018**, 10, 3079-3088	5.6	16
75	Bioinformatics of Selenoproteins. *Antioxidants and Redox Signaling*, **2020**, 33, 525-536	8.4	15
74	The first international mini-symposium on methionine restriction and lifespan. *Frontiers in Genetics*, **2014**, 5, 122	4.5	15
73	Tolerance to Selenoprotein Loss Differs between Human and Mouse. *Molecular Biology and Evolution*, **2020**, 37, 341-354	8.3	15
72	The Ground Zero of Organismal Life and Aging. *Trends in Molecular Medicine*, **2021**, 27, 11-19	11.5	15
71	Selenium utilization in thioredoxin and catalytic advantage provided by selenocysteine. *Biochemical and Biophysical Research Communications*, **2015**, 461, 648-52	3.4	14
70	Intrinsic Versus Extrinsic Cancer Risk Factors and Aging. *Trends in Molecular Medicine*, **2016**, 22, 833-834	11.5	14

69	COVID-19 is an emergent disease of aging		14
68	Selenocysteine tRNA, the Central Component of Selenoprotein Biosynthesis: Isolation, Identification, Modification, and Sequencing. *Methods in Molecular Biology*, **2018**, 1661, 43-60	1.4	13
67	Aminoglycoside-driven biosynthesis of selenium-deficient Selenoprotein P. *Scientific Reports*, **2017**, 7, 4391	4.9	13
66	Reversibility of irreversible aging. *Ageing Research Reviews*, **2019**, 49, 104-114	12	13
65	Defining Molecular Basis for Longevity Traits in Natural Yeast Isolates. *Npj Aging and Mechanisms of Disease*, **2015**, 1,	5.5	11
64	ARDD 2020: from aging mechanisms to interventions. *Aging*, **2020**, 12, 24484-24503	5.6	11
63	The Enzymatic and Structural Basis for Inhibition of Echinococcus granulosus Thioredoxin Glutathione Reductase by Gold(I). *Antioxidants and Redox Signaling*, **2017**, 27, 1491-1504	8.4	10
62	Beaver and Naked Mole Rat Genomes Reveal Common Paths to Longevity. *Cell Reports*, **2020**, 32, 107949	10.6	10
61	Translation elongation rate varies among organs and decreases with age. *Nucleic Acids Research*, **2021**, 49, e9	20.1	10
60	Age-associated molecular changes are deleterious and may modulate life span through diet. *Science Advances*, **2017**, 3, e1601833	14.3	9
59	CTELS: A Cell-Free System for the Analysis of Translation Termination Rate. *Biomolecules*, **2020**, 10,	5.9	9
58	Systematic age-, organ-, and diet-associated ionome remodeling and the development of ionomic aging clocks. *Aging Cell*, **2020**, 19, e13119	9.9	9
57	Germline burden of rare damaging variants negatively affects human healthspan and lifespan. *ELife* , **2020**, 9,	8.9	9
56	Reversal of ageing- and injury-induced vision loss by Tet-dependent epigenetic reprogramming		9
55	MICAL1 constrains cardiac stress responses and protects against disease by oxidizing CaMKII. *Journal of Clinical Investigation*, **2020**, 130, 4663-4678	15.9	8
54	Sensitivity of primary fibroblasts in culture to atmospheric oxygen does not correlate with species lifespan. *Aging*, **2016**, 8, 841-7	5.6	8
53	Methionine sulfoxide reductase B1 deficiency does not increase high-fat diet-induced insulin resistance in mice. *Free Radical Research*, **2017**, 51, 24-37	4	7
52	The insertion Green Monster (iGM) method for expression of multiple exogenous genes in yeast. *G3: Genes, Genomes, Genetics*, **2014**, 4, 1183-91	3.2	7

51	A pig BodyMap transcriptome reveals diverse tissue physiologies and evolutionary dynamics of transcription. *Nature Communications*, **2021**, 12, 3715	17.4	7
50	Selenoprotein MsrB1 deficiency exacerbates acetaminophen-induced hepatotoxicity via increased oxidative damage. *Archives of Biochemistry and Biophysics*, **2017**, 634, 69-75	4.1	6
49	Profiling epigenetic age in single cells. *Nature Aging*, **2021**, 1, 1189-1201		6
48	Genetic and phenotypic analysis of the causal relationship between aging and COVID-19. *Communications Medicine*, **2021**, 1,		6
47	Erosion of the Epigenetic Landscape and Loss of Cellular Identity as a Cause of Aging in Mammals		6
46	Latest advances in aging research and drug discovery. *Aging*, **2019**, 11, 9971-9981	5.6	6
45	Selenium and Methionine Sulfoxide Reduction. *Free Radical Biology and Medicine*, **2014**, 75 Suppl 1, S8-9	7.8	5
44	Translation elongation factor 2 depletion by siRNA in mouse liver leads to mTOR-independent translational upregulation of ribosomal protein genes. *Scientific Reports*, **2020**, 10, 15473	4.9	5
43	Profiling epigenetic age in single cells		5
42	Epigenetic predictors of maximum lifespan and other life history traits in mammals		5
41	Ectopic cervical thymi and no thymic involution until midlife in naked mole rats. *Aging Cell*, **2021**, 20, e13477	9.7	5
40	Monitoring of Methionine Sulfoxide Content and Methionine Sulfoxide Reductase Activity. *Methods in Molecular Biology*, **2018**, 1661, 285-299	1.4	4
39	Selenophosphate synthetase 1 deficiency exacerbates osteoarthritis by dysregulating redox homeostasis.. *Nature Communications*, **2022**, 13, 779	17.4	4
38	Historical Roles of Selenium and Selenoproteins in Health and Development: The Good, the Bad and the Ugly.. *International Journal of Molecular Sciences*, **2021**, 23,	6.3	4
37	Mammalian Hbs1L deficiency causes congenital anomalies and developmental delay associated with Pelota depletion and 80S monosome accumulation. *PLoS Genetics*, **2019**, 15, e1007917	6	4
36	Organ-specific translation elongation rates measured by in vivo ribosome profiling		4
35	Development of a novel fluorescent biosensor for dynamic monitoring of metabolic methionine redox status in cells and tissues. *Biosensors and Bioelectronics*, **2021**, 178, 113031	11.8	4
34	Naked mole rat TRF1 safeguards glycolytic capacity and telomere replication under low oxygen. *Science Advances*, **2021**, 7,	14.3	4

33	COVID-19 mortality rate in children is U-shaped. *Aging*, **2021**, 13, 19954-19962	5.6	4
32	Selenium and the 15kDa Selenoprotein Impact Colorectal Tumorigenesis by Modulating Intestinal Barrier Integrity. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	4
31	An NMR-Based Biosensor to Measure Stereospecific Methionine Sulfoxide Reductase Activities in Vitro and in Vivo*. *Chemistry - A European Journal*, **2020**, 26, 14838-14843	4.8	3
30	Evolution of natural lifespan variation and molecular strategies of extended lifespan in yeast. *ELife*, **2021**, 10,	8.9	3
29	Genetic and Phenotypic Evidence for the Causal Relationship Between Aging and COVID-19		3
28	Sep15 knockout in mice provides protection against chemically-induced aberrant crypt formation. *FASEB Journal*, **2011**, 25, 110.1	0.9	3
27	A naked mole rat iPSC line expressing drug-inducible mouse pluripotency factors developed from embryonic fibroblasts. *Stem Cell Research*, **2018**, 31, 197-200	1.6	3
26	Molecular damage in aging. *Nature Aging*, **2021**, 1, 1096-1106		3
25	How can aging be reversed? Exploring rejuvenation from a damage-based perspective. *Genetics & Genomics Next*, **2020**, 1, e10025	1.2	2
24	Epigenetic aging of the demographically non-aging naked mole-rat.. *Nature Communications*, **2022**, 13, 355	17.4	2
23	Emerging rejuvenation strategies-Reducing the biological age.. *Aging Cell*, **2021**, e13538	9.9	2
22	Genomic expansion of Aldh1a1 protects beavers against high metabolic aldehydes from lipid oxidation. *Cell Reports*, **2021**, 37, 109965	10.6	2
21	Identification of Signaling Pathways for Early Embryonic Lethality and Developmental Retardation in Mice. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	2
20	Ultra-cheap and scalable epigenetic age predictions with TIME-Seq		2
19	Maintenance of genome sequence integrity in long- and short-lived rodent species. *Science Advances*, **2021**, 7, eabj3284	14.3	2
18	A standard knockout procedure alters expression of adjacent loci at the translational level. *Nucleic Acids Research*, **2021**, 49, 11134-11144	20.1	2
17	Use of selenocysteine, the 21st amino acid, in the fungal kingdom		1
16	Epigenetic clocks reveal a rejuvenation event during embryogenesis followed by aging		1

15	Measuring Organ-Specific Translation Elongation Rate in Mice. *Methods in Molecular Biology*, **2021**, 2252, 189-200	1.4	1
14	Aging predisposes B cells to malignancy by activating c-Myc and perturbing the genome and epigenome		1
13	Rapamycin treatment during development extends lifespan and healthspan		1
12	Biosensor-Linked Immunosorbent Assay for the Quantification of Methionine Oxidation in Target Proteins.. *ACS Sensors*, **2021**,	9.2	1
11	In vivo cyclic induction of the FOXM1 transcription factor delays natural and progeroid aging phenotypes and extends healthspan. *Nature Aging*, **2022**, 2, 397-411		1
10	Selenoproteome of Kinetoplastids **2013**, 237-242		
9	The Metallome **2004**, 1-22		
8	Role of the 15kDa selenoprotein (Sep15) in colon cancer prevention. *FASEB Journal*, **2010**, 24, 218.5	0.9	
7	Increased sodium selenite cytotoxicity in thioredoxin reductase 1 knockdown cancer cells. *FASEB Journal*, **2011**, 25, 110.6	0.9	
6	SECIS- and UGA position-dependent incorporation of selenocysteine into mammalian selenoproteins. *FASEB Journal*, **2012**, 26, 1013.31	0.9	
5	James R. Mitchell (1971-2020). *Cell Metabolism*, **2021**, 33, 458-461	24.6	
4	Chronic Exposure to Youthful Circulation Leads to Epigenetic Reprogramming and Lifespan Extension. *Innovation in Aging*, **2021**, 5, 677-678	0.1	
3	Aging Predisposes B cells to Malignancy by Activating c-Myc and Perturbing the Genome and Epigenome. *Innovation in Aging*, **2021**, 5, 560-561	0.1	
2	Genetic and Phenotypic Evidence for the Causal Relationship Between Aging and COVID-19. *Innovation in Aging*, **2021**, 5, 330-330	0.1	
1	Profiling Epigenetic Age in Single Cells. *Innovation in Aging*, **2021**, 5, 673-673	0.1	