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The hallmarks of aging

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#	Paper	IF	Citations
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2227	Healthy ageing, but what is health?. 2013 , 14, 673-7		37
2226	Autophagy and cellular immune responses. 2013 , 39, 211-27		296
2225	Comorbidity: a multidimensional approach. 2013 , 19, 515-21		46
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2221	Systemic effects of inflammation on health during chronic HIV infection. 2013 , 39, 633-45		462
2220	DNA methylome: Unveiling your biological age. 2013 , 4, 723-5		3
2219	Cellular aging: symmetry evades senescence. 2013 , 23, R871-3		3
2218	Stem cells and aging from a quasi-immortal point of view. 2013 , 35, 994-1003		19
2217	Differential shortening rate of telomere length in the development of human fetus. 2013 , 442, 112-5		19
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2215	C/EBP homologous protein drives pro-catabolic responses in chondrocytes. 2013 , 15, R218		45
2214	Mechanistic links between aging and lung fibrosis. 2013 , 14, 609-15		75
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2210	A divide-and-conquer assault on aging: mainstream at last. 2013 , 16, 257-8	5
2209	Prelamin A causes progeria through cell-extrinsic mechanisms and prevents cancer invasion. 2013 , 4, 2268	55
2208	Evolution: skipping school. 2013 , 23, R873-5	
2207	Mesenchymal stroma: primary determinant and therapeutic target for epithelial cancer. 2013 , 23, 593-602	39
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2205	Reactive oxygen species (ROS) protection via cysteine oxidation in the epidermal cornified cell envelope. 2014 , 1195, 157-69	5
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2203	Aging is not programmed: genetic pseudo-program is a shadow of developmental growth. 2013 , 12, 3736-42	85
2202	Why do we need to age?. 2013 , 16, 3-5	1
2201	Do telomeres adapt to physiological stress? Exploring the effect of exercise on telomere length and telomere-related proteins. 2013 , 2013, 601368	55
2200	Mitochondrial dysfunction in cancer. 2013 , 3, 292	293
2199	DNA Methylation Changes during In Vitro Propagation of Human Mesenchymal Stem Cells: Implications for Their Genomic Stability?. 2013 , 2013, 192425	40
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2196	Hypothalamic inflammation and GnRH in aging development. 2013 , 12, 2711-2	17
2195	Metformin: do we finally have an anti-aging drug?. 2013 , 12, 3483-9	81

2194	Rapamycin induces pluripotent genes associated with avoidance of replicative senescence. 2013 , 12, 3841-51	18
2193	Bone marrow rejuvenation. An excellent potential therapy for age-related endothelial dysfunction. 2013 , 77, 2886-8	4
2192	Tpo1-mediated spermine and spermidine export controls cell cycle delay and times antioxidant protein expression during the oxidative stress response. 2013 , 14, 1113-9	39
2191	Identification of novel modifiers of A β toxicity by transcriptomic analysis in the fruitfly. 2013 , 3, 3512	17
2190	FOXOs attenuate bone formation by suppressing Wnt signaling. 2013 , 123, 3409-19	154
2189	Effects of a leucine and pyridoxine-containing nutraceutical on body weight and composition in obese subjects. 2013 , 6, 309-15	13
2188	Genetic and Epigenetic Effects of Nanoparticles. 2013 , 07,	2
2187	Rapamycin extends life- and health span because it slows aging. 2013 , 5, 592-8	63
2186	Defective mitochondrial function in vivo in skeletal muscle in adults with Down's syndrome: a 31P-MRS study. 2013 , 8, e84031	18
2185	Preface: aging and oncogenesis. 2013 , 18, 485-7	
2184	M(o)TOR of aging: MTOR as a universal molecular hypothalamus. 2013 , 5, 490-4	23
2183	Sirtuins in hematological aging and malignancy. 2013 , 18, 531-47	21
2182	THE PHYSIOLOGICAL BASIS OF DORIAN GRAY'S PORTRAIT. 2013 , 5, 41	
2181	Amelioration of reproduction-associated oxidative stress in a viviparous insect is critical to prevent reproductive senescence. 2014 , 9, e87554	15
2180	Promoter polymorphism in the serotonin transporter (5-HTT) gene is significantly associated with leukocyte telomere length in Han Chinese. 2014 , 9, e94442	3
2179	Methionine restriction activates the retrograde response and confers both stress tolerance and lifespan extension to yeast, mouse and human cells. 2014 , 9, e97729	94
2178	Palladium and platinum nanoparticles attenuate aging-like skin atrophy via antioxidant activity in mice. 2014 , 9, e109288	74
2177	Evaluation of traditional medicines for neurodegenerative diseases using Drosophila models. 2014 , 2014, 967462	17

2176	Autophagy in Drosophila: from historical studies to current knowledge. 2014 , 2014, 273473	47
2175	Tumor promoter-induced cellular senescence: cell cycle arrest followed by geroconversion. 2014 , 5, 12715-27	29
2174	Mechanisms underlying the anti-aging and anti-tumor effects of lithocholic bile acid. 2014 , 15, 16522-43	25
2173	Epigenetic alterations in hippocampus of SAMP8 senescent mice and modulation by voluntary physical exercise. 2014 , 6, 51	45
2172	Studying variability in human brain aging in a population-based German cohort-rationale and design of 1000BRAINS. 2014 , 6, 149	60
2171	Lithium suppresses A β pathology by inhibiting translation in an adult Drosophila model of Alzheimer's disease. 2014 , 6, 190	46
2170	Methylene blue promotes quiescence of rat neural progenitor cells. 2014 , 8, 315	5
2169	Effects of vitamin E on cognitive performance during ageing and in Alzheimer's disease. 2014 , 6, 5453-72	86
2168	Long noncoding RNAs(lncRNAs) and the molecular hallmarks of aging. 2014 , 6, 992-1009	137
2167	MicroRNAs as Mediators of the Ageing Process. 2014 , 5, 656-70	71
2166	The Mechanistic Links Between Proteasome Activity, Aging and Age-related Diseases. 2014 , 15, 38-51	177
2165	Systems Biology and Systems Medicine: The Technological Tools of the System Approaches to Complexity. 2014 , 4,	
2164	Proteome-wide analysis reveals an age-associated cellular phenotype of in situ aged human fibroblasts. 2014 , 6, 856-78	46
2163	Sphingolipids and mitochondrial function, lessons learned from yeast. 2014 , 1, 210-224	15
2162	Longevity pathways and maintenance of the proteome: the role of autophagy and mitophagy during yeast ageing. 2014 , 1, 118-127	25
2161	Correction. 2014 , 511, 407-407	
2160	Accelerated aging among cancer survivors: from pediatrics to geriatrics. 2014 , e423-30	68
2159	The aggregation and inheritance of damaged proteins determines cell fate during mitosis. 2014 , 13, 1201-7	11

2158	The fine line between lifespan extension and shortening in response to caloric restriction. 2014 , 5, 56-65	22
2157	Trial Watch: Radioimmunotherapy for oncological indications. 2014 , 3, e954929	36
2156	Mediterranean diet and healthy ageing: a Sicilian perspective. 2014 , 60, 508-18	61
2155	Targeted protein degradation as a tumor suppressor. 2014 , 13, 3473	2
2154	Resistance exercise and testosterone treatment alters the proportion of numerical density of capillaries of the left ventricle of aging Wistar rats. 2014 , 17, 243-7	12
2153	Smoking accelerates aging of the small airway epithelium. 2014 , 15, 94	50
2152	Shorter telomeres with high telomerase activity are associated with raised allostatic load and impoverished psychosocial resources. 2014 , 111, 4519-24	121
2151	Wnt signaling regulates homeostasis of the periodontal ligament. 2014 , 49, 751-9	48
2150	Proteostasis in pediatric pulmonary pathology. 2014 , 1, 11	8
2149	Wound repair and regeneration: mechanisms, signaling, and translation. 2014 , 6, 265sr6	1319
2148	Clinicopathological and prognostic significance of interleukin-8 expression and its relationship to KRAS mutation in lung adenocarcinoma. 2014 , 110, 2047-53	25
2147	Sequential logic of polarity determination during the haploid-to-diploid transition in <i>Saccharomyces cerevisiae</i> . 2014 , 13, 1393-402	4
2146	Changes in transcription and metabolism during the early stage of replicative cellular senescence in budding yeast. 2014 , 289, 32081-32093	32
2145	ShaPINg Cell Fate Upon DNA Damage: Role of Pin1 Isomerase in DNA Damage-Induced Cell Death and Repair. 2014 , 4, 148	12
2144	Msp1/ATAD1 maintains mitochondrial function by facilitating the degradation of mislocalized tail-anchored proteins. 2014 , 33, 1548-64	113
2143	Network medicine, multimorbidity and the lung in the elderly. 2014 , 44, 775-88	44
2142	Cell-autonomous progeroid changes in conditional mouse models for repair endonuclease XPG deficiency. 2014 , 10, e1004686	38
2141	Enhanced longevity by ibuprofen, conserved in multiple species, occurs in yeast through inhibition of tryptophan import. 2014 , 10, e1004860	64

2140	Natural compounds and aging: between autophagy and inflammasome. 2014 , 2014, 297293	38
2139	Superoxide dismutase 1 loss disturbs intracellular redox signaling, resulting in global age-related pathological changes. 2014 , 2014, 140165	28
2138	Rate of telomere shortening and cardiovascular damage: a longitudinal study in the 1946 British Birth Cohort. 2014 , 35, 3296-303	44
2137	Aging, Disease, and Longevity in Mice. 2014 , 34, 93-138	8
2136	Independent stem cell lineages regulate adipose organogenesis and adipose homeostasis. 2014 , 9, 1007-22	119
2135	Lon protease: A key enzyme controlling mitochondrial bioenergetics in cancer. 2014 , 1, e968505	10
2134	FoxO proteins restrain osteoclastogenesis and bone resorption by attenuating H ₂ O ₂ accumulation. 2014 , 5, 3773	153
2133	Epigenetic regulation of Atrophia1 by lysine-specific demethylase 1 is required for cortical progenitor maintenance. 2014 , 5, 5815	32
2132	Impact of senescence on bone quality: lessons from animal models of aging. 2014 , 13, 17-22	
2131	DNA Damage and Checkpoint Responses in Adult Stem Cells. 2014 , 74-82	
2130	Spartan deficiency causes genomic instability and progeroid phenotypes. 2014 , 5, 5744	67
2129	New genetic and epigenetic approaches in gerontology. 2014 , 4, 238-246	4
2128	Coffee induces autophagy in vivo. 2014 , 13, 1987-94	34
2127	Telomerase expression confers cardioprotection in the adult mouse heart after acute myocardial infarction. 2014 , 5, 5863	91
2126	A stress-induced cellular aging model with postnatal neural stem cells. 2014 , 5, e1116	41
2125	Cellular senescence and aging: the role of B-MYB. 2014 , 13, 773-9	49
2124	Epigenetic modifiers of islet function and mass. 2014 , 25, 628-36	23
2123	Aging-related changes in inflammatory and LKB1/AMPK gene expression in fibromyalgia patients. 2014 , 20, 476-8	0

2122	Impaired geranylgeranyltransferase-I regulation reduces membrane-associated Rho protein levels in aged mouse brain. 2014 , 129, 732-42	20
2121	O-GlcNAc transferase and O-GlcNAcase: achieving target substrate specificity. 2014 , 46, 2305-16	48
2120	From experimental design to functional gene networks: DNA microarray contribution to skin ageing research. 2014 , 36, 516-26	5
2119	Shared signatures of social stress and aging in peripheral blood mononuclear cell gene expression profiles. 2014 , 13, 954-7	11
2118	Energy metabolism and metabolic sensors in stem cells: the metabostem crossroads of aging and cancer. 2014 , 824, 117-40	22
2117	Daumone fed late in life improves survival and reduces hepatic inflammation and fibrosis in mice. 2014 , 13, 709-18	14
2116	The role of protein clearance mechanisms in organismal ageing and age-related diseases. 2014 , 5, 5659	401
2115	Characterization of novel markers of senescence and their prognostic potential in cancer. 2014 , 5, e1528	127
2114	Age-related diseases: common or diverse pathways?. 2014 , 15, 543-5	3
2113	Polysaccharides from medicinal herbs as potential therapeutics for aging and age-related neurodegeneration. 2014 , 17, 201-4	15
2112	Cell Aging: Molecular Mechanisms and Implications for Disease. 2014 ,	4
2111	Recent developments in cardiovascular stem cells. 2014 , 115, e71-8	25
2110	Epidermal Cells. 2014 ,	
2109	Metabolic Effects of Caloric Restriction. 2014 ,	6
2108	Metabolic dysfunction consistent with premature aging results from deletion of Pim kinases. 2014 , 115, 376-87	34
2107	Reprint of "accumulation of modified proteins and aggregate formation in aging". 2014 , 59, 3-12	12
2106	Subcellular distribution and activity of mechanistic target of rapamycin in aged retinal pigment epithelium. 2014 , 55, 8638-50	24
2105	Standard laboratory tests to identify older adults at increased risk of death. 2014 , 12, 171	137

2104	Aneuploidy: implications for protein homeostasis and disease. 2014 , 7, 15-20	83
2103	Emerging clinical issues related to management of multiorgan comorbidities and polypharmacy. 2014 , 9, 371-8	7
2102	Exosomes and autophagy: coordinated mechanisms for the maintenance of cellular fitness. 2014 , 5, 403	275
2101	Nutritional Approaches for Healthy Aging of the Brain and the Prevention of Neurodegenerative Diseases. 2014 , 457-479	4
2100	Resveratrol and Alzheimer's disease: message in a bottle on red wine and cognition. 2014 , 6, 95	65
2099	Epigenomic programming: a future way to health?. 2014 , 25,	35
2098	MicroRNAs expression profiles in cardiovascular diseases. 2014 , 2014, 985408	121
2097	Up-regulating telomerase and tumor suppressors: focusing on anti-aging interventions at the population level. 2014 , 5, 17-26	3
2096	Aging is not a disease: implications for intervention. 2014 , 5, 196-202	72
2095	Possible role of ABO system in age-related diseases and longevity: a narrative review. 2014 , 11, 16	15
2094	The effect of coenzyme Q10 on age-related changes of the distal colon mucosa of male albino rats. 2014 , 37, 729-740	
2093	Biologic aging, frailty, and age-related disease in chronic HIV infection. 2014 , 9, 412-8	37
2092	Contesting the dogma of an age-related heat shock response impairment: implications for cardiac-specific age-related disorders. 2014 , 23, 3641-56	26
2091	Mitochondrial ultrastructure and markers of dynamics in hepatocytes from aged, calorie restricted mice fed with different dietary fats. 2014 , 56, 77-88	25
2090	TERT promoter mutations in cancer development. 2014 , 24, 30-7	167
2089	Response to the letter from Xue And Varadhan: "What is missing in the validation of frailty instruments?". 2014 , 15, 144-5	1
2088	RTEL1: functions of a disease-associated helicase. 2014 , 24, 416-25	80
2087	The imbalanced redox status in senescent endothelial cells is due to dysregulated Thioredoxin-1 and NADPH oxidase 4. 2014 , 56, 45-52	17

2086 Response to the letter to the editor: "Frailty consensus: a call to action". **2014**, 15, 145-7

2085 Revisiting an age-old question regarding oxidative stress. **2014**, 71, 368-378

52

2084 The hallmarks of fibroblast ageing. **2014**, 138, 26-44

126

2083 Proteasome activation delays aging in vitro and in vivo. **2014**, 71, 303-320

57

2082 Telomerase activation: a potential key modulator for human healthspan and longevity. **2014**, 15, 1-5

33

2081 Progeria: a paradigm for translational medicine. *Cell*, **2014**, 156, 400-7

56.2 165

2080 The senescence-associated secretory phenotype promotes benign prostatic hyperplasia. **2014**, 184, 721-31

28

2079 Ageing: Genetic rejuvenation of old muscle. **2014**, 506, 304-5

10

2078 Mitochondrial homeostasis: the interplay between mitophagy and mitochondrial biogenesis. **2014**, 56, 182-8

232

2077 Proteostasis and aging of stem cells. **2014**, 24, 161-70

103

2076 FOXO transcription factors: key regulators of cellular quality control. **2014**, 39, 159-69

329

2075 Regulation of autophagy by cytosolic acetyl-coenzyme A. **2014**, 53, 710-25

331

2074 Telomere regulation in pluripotent stem cells. **2014**, 5, 194-202

43

2073 Genetics and epigenetics of aging and longevity. **2014**, 13, 1063-77

111

2072 Bone cell senescence: mechanisms and perspectives. **2014**, 29, 1311-21

50

2071 WITHDRAWN: Nuclear matrix, nuclear envelope and premature aging syndromes in a translational research perspective. **2014**,

6

2070 Telomere dysfunction in peripheral blood mononuclear cells from patients with primary biliary cirrhosis. **2014**, 46, 363-8

11

2069 miRNAs in lung cancer: a link to aging. **2014**, 17, 54-67

30

2068	Cellular and molecular longevity pathways: the old and the new. 2014 , 25, 212-23	12
2067	Select aging biomarkers based on telomere length and chronological age to build a biological age equation. 2014 , 36, 9639	44
2066	Microglial dysfunction in brain aging and Alzheimer's disease. 2014 , 88, 594-604	352
2065	The paradigm of mutant p53-expressing cancer stem cells and drug resistance. 2014 , 35, 1196-208	76
2064	Molecular mechanisms of ageing and related diseases. 2014 , 41, 445-58	30
2063	Effects of polymorphisms in immunity-related genes on the immune system and successful aging. 2014 , 29, 49-55	16
2062	The role of senescent cells in ageing. 2014 , 509, 439-46	1332
2061	Studying aging in <i>Drosophila</i> . 2014 , 68, 129-33	77
2060	Inadequate mito-biogenesis in primary dermal fibroblasts from old humans is associated with impairment of PGC1A-independent stimulation. 2014 , 56, 59-68	23
2059	Stress and aging at the nuclear gateway. 2014 , 135, 24-32	11
2058	MicroRNA expression altered by diet: can food be medicinal?. 2014 , 17, 16-24	57
2057	A critical role of Fas-associated protein with death domain phosphorylation in intracellular reactive oxygen species homeostasis and aging. 2014 , 21, 33-45	7
2056	Self-consumption: the interplay of autophagy and apoptosis. 2014 , 15, 81-94	1421
2055	The interplay between mitochondrial protein and iron homeostasis and its possible role in ageing. 2014 , 56, 123-34	15
2054	Geroscience: linking aging to chronic disease. <i>Cell</i> , 2014 , 159, 709-13	56.2 1068
2053	Perinatal complications and aging indicators by midlife. 2014 , 134, e1315-23	48
2052	Fibrosis and renal aging. 2014 , 4, 75-78	36
2051	A chaperome subnetwork safeguards proteostasis in aging and neurodegenerative disease. 2014 , 9, 1135-50	317

2050	Aging and regeneration in vertebrates. 2014 , 108, 217-46	63
2049	Is chronic asthma associated with shorter leukocyte telomere length at midlife?. 2014 , 190, 384-91	42
2048	In vivo role of checkpoint kinase 2 in signaling telomere dysfunction. 2014 , 13, 810-6	5
2047	Immunomodulatory role of high-density lipoproteins: impact on immunosenescence. 2014 , 36, 9712	23
2046	Rebels with a cause: molecular features and physiological consequences of yeast prions. 2014 , 14, 136-47	33
2045	DNA damage response and metabolic disease. 2014 , 20, 967-77	139
2044	Alive and well? Exploring disease by studying lifespan. 2014 , 26, 33-40	8
2043	How stem cells get "turned on". 2014 , 33, 2743-4	2
2042	Royalactin extends lifespan of <i>Caenorhabditis elegans</i> through epidermal growth factor signaling. 2014 , 60, 129-35	27
2041	Systems biology of cisplatin resistance: past, present and future. 2014 , 5, e1257	476
2040	Aging and cardiovascular diseases: the role of gene-diet interactions. 2014 , 18, 53-73	53
2039	Ageing and the border between health and disease. 2014 , 44, 1332-52	67
2038	Geroconversion: irreversible step to cellular senescence. 2014 , 13, 3628-35	92
2037	New therapeutic targets in idiopathic pulmonary fibrosis. Aiming to rein in runaway wound-healing responses. 2014 , 190, 867-78	175
2036	The epigenetic tracks of aging. 2014 , 395, 1307-14	46
2035	Impact of Energy Balance on Cancer Disparities. 2014 ,	
2034	A resourceful genome: updating the functional repertoire and evolutionary role of animal mitochondrial DNAs. 2014 , 30, 555-64	74
2033	Role of asymmetric cell division in lifespan control in <i>Saccharomyces cerevisiae</i> . 2014 , 14, 1133-46	46

2032	Epigenetics of hematopoietic stem cell aging and disease. 2014 , 100, 326-34	29
2031	Stress biology and aging mechanisms: toward understanding the deep connection between adaptation to stress and longevity. 2014 , 69 Suppl 1, S10-6	111
2030	Peroxisome proliferator-activated receptor γ coactivator 1 β and FoxO3A mediate chondroprotection by AMP-activated protein kinase. 2014 , 66, 3073-82	56
2029	Defining aging in cyborgs: a bio-techno-social definition of aging. 2014 , 31, 104-9	1
2028	The scientific quest for lasting youth: prospects for curing aging. 2014 , 17, 458-67	31
2027	Proteome analysis in the assessment of ageing. 2014 , 18, 74-85	15
2026	Sox4 links tumor suppression to accelerated aging in mice by modulating stem cell activation. 2014 , 8, 487-500	33
2025	Replication stress is a potent driver of functional decline in ageing haematopoietic stem cells. 2014 , 512, 198-202	399
2024	Accelerated telomere reduction and hepatocyte senescence in tolerated human liver allografts. 2014 , 31, 55-9	11
2023	ATP-dependent Lon protease controls tumor bioenergetics by reprogramming mitochondrial activity. 2014 , 8, 542-56	133
2022	Common features of chromatin in aging and cancer: cause or coincidence?. 2014 , 24, 686-94	48
2021	Aging and age-related diseases--from endocrine therapy to target therapy. 2014 , 394, 115-8	33
2020	Wnt4 signaling prevents skeletal aging and inflammation by inhibiting nuclear factor- κ B. 2014 , 20, 1009-17	142
2019	Human stem cell models of dementia. 2014 , 23, R35-9	20
2018	Internalizing disorders and leukocyte telomere erosion: a prospective study of depression, generalized anxiety disorder and post-traumatic stress disorder. 2014 , 19, 1163-70	124
2017	Involvement of oxysterols in age-related diseases and ageing processes. 2014 , 18, 148-62	111
2016	Caloric restriction mimetics: towards a molecular definition. 2014 , 13, 727-40	156
2015	Growth phase-dependent roles of Sir2 in oxidative stress resistance and chronological lifespan in yeast. 2014 , 52, 652-8	5

2014	Cellular senescence: from physiology to pathology. 2014 , 15, 482-96	1323
2013	Aging: not all DNA damage is equal. 2014 , 26, 124-30	46
2012	Heat shock proteins in neurodegenerative disorders and aging. 2014 , 8, 293-310	113
2011	Immunoproteasomes shape the transcriptome and regulate the function of dendritic cells. 2014 , 193, 1121-32	22
2010	American association for cancer research [AACR congress 2014]. 2014 , 16, 341-366	
2009	Mitochondrial function and mitochondrial DNA maintenance with advancing age. 2014 , 15, 417-38	53
2008	Let-7 coordinately suppresses components of the amino acid sensing pathway to repress mTORC1 and induce autophagy. 2014 , 20, 626-38	52
2007	Ageing as developmental decay: insights from p16(INK4a.). 2014 , 20, 667-74	37
2006	Aging research-where do we stand and where are we going?. <i>Cell</i> , 2014 , 159, 15-19	56.2 48
2005	Inside and out: the activities of senescence in cancer. 2014 , 14, 547-58	320
2004	Glial development: the crossroads of regeneration and repair in the CNS. 2014 , 83, 283-308	134
2003	Quantitative proteomics of synaptic and nonsynaptic mitochondria: insights for synaptic mitochondrial vulnerability. 2014 , 13, 2620-36	59
2002	Non-coding RNAs in cardiovascular ageing. 2014 , 17, 79-85	30
2001	Uncovering the geroprotective potential of medicinal plants from the Judea region of Israel. 2014 , 17, 134-9	10
2000	Telomere dynamics and aging. 2014 , 125, 89-111	36
1999	Pharma-Nutrition. 2014 ,	
1998	Is amyloid- β an innocent bystander and marker in Alzheimer's disease? Is the liability of multivalent cation homeostasis and its influence on amyloid- β function the real mechanism?. 2014 , 42, 69-85	11
1997	Repair of endogenous DNA base lesions modulate lifespan in mice. 2014 , 21, 78-86	8

1996	Telomerase as a "stemness" enzyme. 2014 , 57, 564-70	33
1995	Exome sequencing identifies a novel mutation in PIK3R1 as the cause of SHORT syndrome. 2014 , 15, 51	26
1994	Genomic profiling of type-1 adult diabetic and aged normoglycemic mouse liver. 2014 , 14, 19	5
1993	Telomere shortening: a diagnostic tool and therapeutic target for cardiovascular disease?. 2014 , 35, 3245-7	8
1992	Microglia in Health and Disease. 2014 ,	9
1991	Aging mesenchymal stem cells fail to protect because of impaired migration and antiinflammatory response. 2014 , 189, 787-98	133
1990	Intervening in ageing to prevent the diseases of ageing. 2014 , 25, 555-7	43
1989	How T follicular helper cells and the germinal centre response change with age. 2014 , 92, 72-9	47
1988	Optimal body weight for health and longevity: bridging basic, clinical, and population research. 2014 , 13, 391-400	96
1987	Senescent cells: SASPected drivers of age-related pathologies. 2014 , 15, 627-42	129
1986	Proteasome-mediated quality control of S-nitrosylated mitochondrial proteins. 2014 , 17, 182-6	13
1985	Joint inhibition of TOR and JNK pathways interacts to extend the lifespan of Brachionus manjavacas (Rotifera). 2014 , 52, 55-69	30
1984	The C. elegans healthspan and stress-resistance assay toolkit. 2014 , 68, 476-86	50
1983	The C. elegans lifespan assay toolkit. 2014 , 68, 465-75	69
1982	Epigenomic profiling of young and aged HSCs reveals concerted changes during aging that reinforce self-renewal. 2014 , 14, 673-88	399
1981	Wnt signaling and osteoporosis. 2014 , 78, 233-7	60
1980	A mitochondrially targeted compound delays aging in yeast through a mechanism linking mitochondrial membrane lipid metabolism to mitochondrial redox biology. 2014 , 2, 305-7	25
1979	The hMTH1 paradox: antioxidants recommended in cancer?. 2014 , 21, 163-4	3

1978	Impact of bacterial infections on aging and cancer: impairment of DNA repair and mitochondrial function of host cells. 2014 , 56, 164-74	9
1977	Translational research on aging: clinical epidemiology as a bridge between the sciences. 2014 , 163, 439-45	6
1976	Approaches to in vitro tissue regeneration with application for human disease modeling and drug development. 2014 , 19, 754-62	33
1975	Role of microRNAs in the age-related changes in skeletal muscle and diet or exercise interventions to promote healthy aging in humans. 2014 , 17, 25-33	40
1974	Lipid Replacement Therapy: a natural medicine approach to replacing damaged lipids in cellular membranes and organelles and restoring function. 2014 , 1838, 1657-79	71
1973	The interplay between mitochondria and autophagy and its role in the aging process. 2014 , 56, 147-53	48
1972	Nuclear matrix, nuclear envelope and premature aging syndromes in a translational research perspective. 2014 , 29, 125-47	52
1971	Age and cancer risk: a potentially modifiable relationship. 2014 , 46, S7-15	288
1970	The two-faced progeria gene and its implications in aging and metabolism. 2014 , 15, 470-1	
1969	Revealing the pathogenic and aging-related mechanisms of the enigmatic idiopathic pulmonary fibrosis. an integral model. 2014 , 189, 1161-72	264
1968	Colorectal cancer surgery remains effective with rising patient age. 2014 , 29, 971-9	24
1967	Antagonistic functions of LMNA isoforms in energy expenditure and lifespan. 2014 , 15, 529-39	40
1966	New insights into skin stem cell aging and cancer. 2014 , 42, 663-9	10
1965	Aging and longevity in the simplest animals and the quest for immortality. 2014 , 16, 66-82	75
1964	Sirtuins: guardians of mammalian healthspan. 2014 , 30, 271-86	209
1963	Proteostasis impairment in protein-misfolding and -aggregation diseases. 2014 , 24, 506-14	418
1962	Cellular signaling in the aging immune system. 2014 , 29, 105-11	114
1961	Histone methylation and aging: lessons learned from model systems. 2014 , 1839, 1454-62	50

1960	Accumulation of modified proteins and aggregate formation in aging. 2014 , 57, 122-31	53
1959	Multifocal epithelial tumors and field cancerization: stroma as a primary determinant. 2014 , 124, 1446-53	87
1958	Fibrosis: ultimate and proximate causes. 2014 , 124, 4673-7	146
1957	Isolating intestinal stem cells from adult <i>Drosophila</i> midguts by FACS to study stem cell behavior during aging. 2014 ,	9
1956	Adult Stem Cells and Diseases of Aging. 2014 , 3, 88-134	72
1955	Medical research: treat ageing. 2014 , 511, 405-7	170
1954	Aging of the brain, dementias, role of infectious proteins: facts and theories. 2014 , 39, 177-86	1
1953	Correction. 2014 , 506, 305-305	
1952	?????????????????. 2014 , 11, 25-26	
1951	[Lung cancer: progress in diagnosis and treatments. Topics: III. Treatment; 7. Lung cancer treatment in elderly and/or high risk patients]. 2014 , 103, 1346-54	
1950	<i>Cordyceps sinensis</i> oral liquid prolongs the lifespan of the fruit fly, <i>Drosophila melanogaster</i> , by inhibiting oxidative stress. 2015 , 36, 939-46	16
1949	Long-term omega-3 fatty acid supplementation prevents expression changes in cochlear homocysteine metabolism and ameliorates progressive hearing loss in C57BL/6J mice. 2015 , 26, 1424-33	19
1948	Profiling of Sox4-dependent transcriptome in skin links tumour suppression and adult stem cell activation. 2015 , 6, 21-4	1
1947	extract exhibits antioxidative and anti-aging effects via modulation of the AMPK-SIRT1 pathway. 2015 , 9, 1819-1826	33
1946	The crossroads between cancer stem cells and aging. 2015 , 15 Suppl 1, S1	8
1945	Comparative gene expression study of the vestibular organ of the Igf1 deficient mouse using whole-transcript arrays. 2015 , 330, 62-77	10
1944	Images of Aging: Outside and Inside Perspectives. 2015 , 35, 187-209	37
1943	BACK MATTER. 2015 , 289-320	

1942	The effect of developmental nutrition on life span and fecundity depends on the adult reproductive environment in <i>Drosophila melanogaster</i> . 2015 , 5, 1156-68	45
1941	The anti-aging properties of a human placental hydrolysate combined with dieckol isolated from <i>Ecklonia cava</i> . 2015 , 15, 345	9
1940	Effects of donor age and proliferative aging on the phenotype stability of rat aortic smooth muscle cells. 2015 , 3, e12626	5
1939	Towards Truly Interdisciplinary Research on Human Development. 2015 , 12, 335-341	3
1938	Human ageing, a biological view. 2015 , 1-31	
1937	Nutritional interventions in age-related genetic and epigenetic instability and cancer. 2015 , 155-181	
1936	Mitochondrial biogenesis is impaired in osteoarthritis chondrocytes but reversible via peroxisome proliferator-activated receptor α activator 1 2015 , 67, 2141-53	127
1935	Genetic evidence for common pathways in human age-related diseases. 2015 , 14, 809-17	59
1934	Age-dependent decline in fin regenerative capacity in the short-lived fish <i>Nothobranchius furzeri</i> . 2015 , 14, 857-66	43
1933	Integration of 'omics' data in aging research: from biomarkers to systems biology. 2015 , 14, 933-44	79
1932	The mitochondrial-derived peptide MOTS-c: a player in exceptional longevity?. 2015 , 14, 921-3	59
1931	Epigenome rejuvenation: HP1 mobility as a measure of pluripotent and senescent chromatin ground states. 2014 , 4, 4789	21
1930	Functional role of Calstabin2 in age-related cardiac alterations. 2014 , 4, 7425	46
1929	Identification of potential mitochondrial CLPX protease interactors and substrates suggests its central role in energy metabolism. 2015 , 5, 18375	45
1928	Targeting mitochondrial energy metabolism with TSPO ligands. 2015 , 43, 537-42	18
1927	Apocynin suppression of NADPH oxidase reverses the aging process in mesenchymal stem cells to promote osteogenesis and increase bone mass. 2015 , 5, 18572	35
1926	Protein profiling reveals consequences of lifestyle choices on predicted biological aging. 2015 , 5, 17282	28
1925	Fibroblast biology in idiopathic pulmonary fibrosis. 2015 , 98-117	

1924 Aging and idiopathic pulmonary fibrosis. **2015**, 64-81

1923 Epithelial biology in idiopathic pulmonary fibrosis. **2015**, 82-96

1922 Contemporary approaches to idiopathic pulmonary fibrosis. **2015**, 2-4

1921 Interaction between microRNA expression and classical risk factors in the risk of coronary heart disease. **2015**, 5, 14925 30

1920 Synchronized age-related gene expression changes across multiple tissues in human and the link to complex diseases. **2015**, 5, 15145 128

1919 Mediation of organismal aging and somatic proteostasis by the germline. **2015**, 2, 3 14

1918 Assembly of Slx4 signaling complexes behind DNA replication forks. **2015**, 34, 2182-97 30

1917 Tools for diagnosis, clinical phenotypes and follow-up. **2015**, 118-136

1916 Determinants of Frailty and Longevity: Are They the Same Ones?. **2015**, 83, 29-39 13

1915 A Summary of the Biological Basis of Frailty. **2015**, 83, 41-4 10

1914 High-throughput sequencing insights into T-cell receptor repertoire diversity in aging. **2015**, 7, 117 23

1913 Acute Myeloid Leukemia in the Elderly Patient: New Strategies. **2015**, 3, 1-11 5

1912 Effect of obesity on telomere length: Systematic review and meta-analysis. **2015**, 23, 2165-74 120

1911 The African Turquoise Killifish: A Model for Exploring Vertebrate Aging and Diseases in the Fast Lane. **2015**, 80, 275-9 20

1910 A proposed panel of biomarkers of healthy ageing. **2015**, 13, 222 130

1909 NT-020 treatment reduces inflammation and augments Nrf-2 and Wnt signaling in aged rats. **2015**, 12, 174 18

1908 Gene expression in the liver of female, but not male mice treated with rapamycin resembles changes observed under dietary restriction. **2015**, 4, 174 4

1907 Management of elderly patients with chronic lymphocytic leukemia in the era of targeted therapies. **2015**, 27, 365-70 3

1906	Emerging roles of frailty and inflammaging in risk assessment of age-related chronic diseases in older adults: the intersection between aging biology and personalized medicine. 2015 , 5, 1	46
1905	The Impact of Age and Sex in DLBCL: Systems Biology Analyses Identify Distinct Molecular Changes and Signaling Networks. 2015 , 14, 141-8	15
1904	Systemic sclerosis-associated fibrosis: an accelerated aging phenotype?. 2015 , 27, 571-6	28
1903	Premature aging in chronic kidney disease and chronic obstructive pulmonary disease: similarities and differences. 2015 , 18, 528-34	7
1902	Telomerase Therapy to Reverse Cardiovascular Senescence. 2015 , 11, 172-5	13
1901	Senescence is involved in the pathogenesis of chronic obstructive pulmonary disease through effects on telomeres and the anti-aging molecule fibroblast growth factor 23. 2015 , 15, 827-33	1
1900	Aging and liver disease. 2015 , 31, 184-91	184
1899	Physical Activity, Physical Fitness, and Leukocyte Telomere Length: The Cardiovascular Health Study. 2015 , 47, 2525-34	31
1898	Strengthening the role of convergence science in medicine. 2015 , 1, 026001	4
1897	Movement-Based Behaviors and Leukocyte Telomere Length among US Adults. 2015 , 47, 2347-52	24
1896	Ear manipulations reveal a critical period for survival and dendritic development at the single-cell level in Mauthner neurons. 2015 , 75, 1339-51	19
1895	Positive Psychological Functioning and the Biology of Health. 2015 , 9, 645-660	25
1894	Association between Maturation and Aging and Pulmonary Responses in Animal Models of Lung Injury: A Systematic Review. 2015 , 123, 389-408	26
1893	Ending AIDS and challenges for Asia. 2015 , 10, 341-345	
1892	Tissue-Specific Ageing of Rat Tendon-Derived Progenitor Cells. 2015 , 5,	3
1891	Antioxidant Potential of Phycobiliproteins: Role in Anti-Aging Research. 2015 , 04,	28
1890	HIV Drug Therapy in the Americas 16-18 April 2015, Mexico City, Mexico. 2015 , 18, 20177	
1889	Autophagy in colorectal cancer: An important switch from physiology to pathology. 2015 , 7, 271-84	93

1888	DNA methylation age of blood predicts future onset of lung cancer in the women's health initiative. 2015 , 7, 690-700	189
1887	Commentary: What is Aging? Can it be Eliminated?. 2015 , 8, 216-9	
1886	Aging is Neither a Failure nor an Achievement of Natural Selection. 2015 , 8, 4-10	7
1885	Genética do envelhecimento e seu impacto sobre a longevidade humana: teorias e evidências para prevenção das doenças do envelhecimento. 2015 , 2, 3	
1884	Quantification of Oxygen Consumption in Retina Ex Vivo Demonstrates Limited Reserve Capacity of Photoreceptor Mitochondria. 2015 , 56, 8428-36	78
1883	WIPI-Mediated Autophagy and Longevity. 2015 , 4, 202-17	31
1882	The National Institute on Aging Health Disparities Research Framework. 2015 , 25, 245-54	104
1881	Rheumatoid Arthritis, Immunosenescence and the Hallmarks of Aging. 2015 , 8, 131-46	48
1880	Towards an Evidence-based Model of Aging. 2015 , 8, 46-55	3
1879	mTOR, AMPK, and Sirt1: Key Players in Metabolic Stress Management. 2015 , 25, 59-75	57
1878	Breakdown of Epithelial Barrier Integrity and Overdrive Activation of Alveolar Epithelial Cells in the Pathogenesis of Acute Respiratory Distress Syndrome and Lung Fibrosis. 2015 , 2015, 573210	45
1877	Hormetins as Novel Components of Cosmeceuticals and Aging Interventions. 2015 , 2, 11-20	5
1876	Mitochondrial and Ubiquitin Proteasome System Dysfunction in Ageing and Disease: Two Sides of the Same Coin?. 2015 , 16, 19458-76	71
1875	The Role of Mitochondrial DNA in Mediating Alveolar Epithelial Cell Apoptosis and Pulmonary Fibrosis. 2015 , 16, 21486-519	67
1874	Changes in Regenerative Capacity through Lifespan. 2015 , 16, 25392-432	95
1873	Quasi-Steady-State Analysis based on Structural Modules and Timed Petri Net Predict System's Dynamics: The Life Cycle of the Insulin Receptor. 2015 , 5, 766-93	8
1872	Nutrient Status Assessment in Individuals and Populations for Healthy Aging-Statement from an Expert Workshop. 2015 , 7, 10491-500	23
1871	It is time to classify biological aging as a disease. 2015 , 6, 205	63

1870	The aging-disease false dichotomy: understanding senescence as pathology. 2015 , 6, 212	53
1869	Classifying aging as a disease in the context of ICD-11. 2015 , 6, 326	33
1868	Inner ear hair cells deteriorate in mice engineered to have no or diminished innervation. 2015 , 7, 33	42
1867	Muscle wasting in myotonic dystrophies: a model of premature aging. 2015 , 7, 125	54
1866	Lifespan Extension Induced by Caffeine in <i>Caenorhabditis elegans</i> is Partially Dependent on Adenosine Signaling. 2015 , 7, 220	26
1865	Impact of the circadian clock on the aging process. 2015 , 6, 43	28
1864	Drug synergy drives conserved pathways to increase fission yeast lifespan. 2015 , 10, e0121877	6
1863	Excess costs of comorbidities in chronic obstructive pulmonary disease: a systematic review. 2015 , 10, e0123292	33
1862	Alpha-synuclein levels in blood plasma decline with healthy aging. 2015 , 10, e0123444	24
1861	Trehalose Accumulation Triggers Autophagy during Plant Desiccation. 2015 , 11, e1005705	65
1860	Decline of Phosphotransfer and Substrate Supply Metabolic Circuits Hinders ATP Cycling in Aging Myocardium. 2015 , 10, e0136556	10
1859	A New, Discontinuous 2 Phases of Aging Model: Lessons from <i>Drosophila melanogaster</i> . 2015 , 10, e0141920	18
1858	Change in N-Glycosylation of Plasma Proteins in Japanese Semisupercentenarians. 2015 , 10, e0142645	18
1857	Periplasmic Acid Stress Increases Cell Division Asymmetry (Polar Aging) of <i>Escherichia coli</i> . 2015 , 10, e0144650	9
1856	The Insulin-Like Growth Factor System in the Long-Lived Naked Mole-Rat. 2015 , 10, e0145587	11
1855	Hypothesis on Skeletal Muscle Aging: Mitochondrial Adenine Nucleotide Translocator Decreases Reactive Oxygen Species Production While Preserving Coupling Efficiency. 2015 , 6, 369	3
1854	Regenerative medicine in the treatment of idiopathic pulmonary fibrosis: current position. 2015 , 8, 61-5	21
1853	Pathological role of adipose tissue dysfunction in cardio-metabolic disorders. 2015 , 56, 255-9	8

1852	The pleiotropic effect of physical exercise on mitochondrial dynamics in aging skeletal muscle. 2015 , 2015, 917085	51
1851	Resveratrol: A Focus on Several Neurodegenerative Diseases. 2015 , 2015, 392169	100
1850	The Impact of Immunosenescence on Pulmonary Disease. 2015 , 2015, 692546	59
1849	Vitamin E Supplementation Delays Cellular Senescence In Vitro. 2015 , 2015, 563247	8
1848	Genome-Wide Gene Expression in relation to Age in Large Laboratory Cohorts of <i>Drosophila melanogaster</i> . 2015 , 2015, 835624	19
1847	Comparative Meta-Analysis of Transcriptomics Data during Cellular Senescence and In Vivo Tissue Ageing. 2015 , 2015, 732914	11
1846	. 2015 ,	3
1845	Proteomic identification of prognostic tumour biomarkers, using chemotherapy-induced cancer-associated fibroblasts. 2015 , 7, 816-38	25
1844	Prelamin A and Oct-1: a puzzle of aging. 2015 , 6, 3475-6	1
1843	Influence of non-steroidal anti-inflammatory drugs on <i>Drosophila melanogaster</i> longevity. 2015 , 6, 19428-44	39
1842	Why is Qi-Invigorating Therapy in Chinese Medicine Suitable for Mitochondrial Diseases? A Bioenergetic Perspective. 2015 ,	2
1841	Somatic expression of <i>unc-54</i> and <i>vha-6</i> mRNAs declines but not pan-neuronal <i>rgef-1</i> and <i>unc-119</i> expression in aging <i>Caenorhabditis elegans</i> . 2015 , 5, 10692	8
1840	Altering nuclear pore complex function impacts longevity and mitochondrial function in <i>S. cerevisiae</i> . 2015 , 208, 729-44	43
1839	Medicine. Progeria accelerates adult stem cell aging. 2015 , 348, 1093-4	14
1838	Loss of MT1-MMP causes cell senescence and nuclear defects which can be reversed by retinoic acid. 2015 , 34, 1875-88	54
1837	Arginase I expression is upregulated by dietary restriction in the liver of mice as a function of age. 2015 , 407, 1-7	8
1836	Silver oncologic tsunami: quality issues in the senior adult oncology population. 2015 , 11, 190-2	6
1835	Combinatorial strategies for the induction of immunogenic cell death. 2015 , 6, 187	228

1834	Promoting healthy brain aging. 2015 , 72, 619-20	1
1833	Naive T cell maintenance and function in human aging. 2015 , 194, 4073-80	193
1832	Whole-genome fingerprint of the DNA methylome during human B cell differentiation. 2015 , 47, 746-56	209
1831	Functional Effect of Pim1 Depends upon Intracellular Localization in Human Cardiac Progenitor Cells. 2015 , 290, 13935-47	23
1830	Pharmacological diversity among drugs that inhibit bone resorption. 2015 , 22, 115-30	24
1829	Potential Anti-aging Role of Taurine via Proper Protein Folding: A Study from Taurine Transporter Knockout Mouse. 2015 , 803, 481-7	12
1828	The functional and pathologic relevance of autophagy proteases. 2015 , 125, 33-41	70
1827	The master switchers in the aging of cardiovascular system, reverse senescence by microRNA signatures; as highly conserved molecules. 2015 , 119, 111-28	14
1826	p53-Induced inflammation exacerbates cardiac dysfunction during pressure overload. 2015 , 85, 183-98	42
1825	Tensile properties of craniofacial tendons in the mature and aged zebrafish. 2015 , 33, 867-73	12
1824	The P5 disulfide switch: taming the aging unfolded protein response. 2015 , 20, 743-51	1
1823	The systemic milieu as a mediator of dietary influence on stem cell function during ageing. 2015 , 19, 53-64	20
1822	Vitamin D cell signalling in health and disease. 2015 , 460, 53-71	101
1821	Pleiotropic effects of spongean alkaloids on mechanisms of cell death, cell cycle progression and DNA damage response (DDR) of acute myeloid leukemia (AML) cells. 2015 , 361, 39-48	15
1820	Programming and Reprogramming Cellular Age in the Era of Induced Pluripotency. 2015 , 16, 591-600	119
1819	Essential role for autophagy in life span extension. 2015 , 125, 85-93	293
1818	Blue journal conference. Aging and susceptibility to lung disease. 2015 , 191, 261-9	123
1817	Measurement of mitochondrial NADH and FAD autofluorescence in live cells. 2015 , 1264, 263-70	67

1816	Cellular and molecular mechanisms of negligible senescence: insight from the sea urchin. 2015 , 59, 23-27	15
1815	Reconsidering the Role of Mitochondria in Aging. 2015 , 70, 1334-42	142
1814	Autophagy: a druggable process that is deregulated in aging and human disease. 2015 , 125, 1-4	215
1813	On the apparent rarity of epithelial cancers in captive chimpanzees. 2015 , 370,	22
1812	The Intricate Interplay between Mechanisms Underlying Aging and Cancer. 2015 , 6, 56-75	22
1811	The Critical Need to Promote Research of Aging and Aging-related Diseases to Improve Health and Longevity of the Elderly Population. 2015 , 6, 1-5	103
1810	The role of telomeres and vitamin D in cellular aging and age-related diseases. 2015 , 53, 1661-78	28
1809	Comprehensive transcriptional landscape of aging mouse liver. 2015 , 16, 899	66
1808	DNA methylation and healthy human aging. 2015 , 14, 924-32	454
1807	Retinoblastoma protein promotes oxidative phosphorylation through upregulation of glycolytic genes in oncogene-induced senescent cells. 2015 , 14, 689-97	38
1806	From stem cells to the law courts: DNA methylation, the forensic epigenome and the possibility of a biosocial archive. 2015 , 44, 1083-93	28
1805	microRNA: Basic Science. 2015 ,	1
1804	JAK inhibition alleviates the cellular senescence-associated secretory phenotype and frailty in old age. 2015 , 112, E6301-10	357
1803	Proton irradiation impacts age-driven modulations of cancer progression influenced by immune system transcriptome modifications from splenic tissue. 2015 , 56, 792-803	7
1802	Longitudinal epigenetic and gene expression profiles analyzed by three-component analysis reveal down-regulation of genes involved in protein translation in human aging. 2015 , 43, e100	26
1801	The Mechanobiology of Aging. 2015 , 17, 113-141	120
1800	Aging and malignant hemopathies. 2015 , 100, 571-4	5
1799	Aging and blood disorders: new perspectives, new challenges. 2015 , 100, 415-7	18

1798	Genome Sequencing Fishes out Longevity Genes. <i>Cell</i> , 2015 , 163, 1312-3	56.2	4
1797	NAD+ in aging, metabolism, and neurodegeneration. 2015 , 350, 1208-13		595
1796	The African Turquoise Killifish Genome Provides Insights into Evolution and Genetic Architecture of Lifespan. <i>Cell</i> , 2015 , 163, 1539-54	56.2	121
1795	The Role of the Microenvironmental Niche in Declining Stem-Cell Functions Associated with Biological Aging. 2015 , 5,		31
1794	Inflammation and intracellular metabolism: new targets in OA. 2015 , 23, 1835-42		58
1793	Can aging be 'drugged'?. 2015 , 21, 1400-5		38
1792	Thioredoxin Reductase 2 (Txnrd2) Regulates Mitochondrial Integrity in the Progression of Age-Related Heart Failure. 2015 , 4,		19
1791	Reply to Newman: Quantification of biological aging in young adults is not the same thing as the onset of obesity. 2015 , 112, E7164-5		9
1790	The zebrafish as a gerontology model in nervous system aging, disease, and repair. 2015 , 24, 358-68		29
1789	Measuring In Vivo Mitophagy. 2015 , 60, 685-96		379
1788	Neuropeptide Y: An Anti-Aging Player?. 2015 , 38, 701-711		24
1787	iTRAQ-based analysis of progerin expression reveals mitochondrial dysfunction, reactive oxygen species accumulation and altered proteostasis. 2015 , 6, 119		18
1786	Regulatory Roles of miRNAs in Aging. 2015 , 887, 213-30		10
1785	Age-Associated Methylation Suppresses SPRY1, Leading to a Failure of Re-quiescence and Loss of the Reserve Stem Cell Pool in Elderly Muscle. 2015 , 13, 1172-1182		71
1784	Aging-related inflammation in osteoarthritis. 2015 , 23, 1966-71		239
1783	Repurposing metformin: an old drug with new tricks in its binding pockets. 2015 , 471, 307-22		178
1782	DAF-18/PTEN locally antagonizes insulin signalling to couple germline stem cell proliferation to oocyte needs in <i>C. elegans</i> . 2015 , 142, 4230-41		18
1781	Effects of sex steroids on bones and muscles: Similarities, parallels, and putative interactions in health and disease. 2015 , 80, 67-78		83

1780	Persistent H2AX: A promising molecular marker of DNA damage and aging. 2015 , 766, 1-19		110
1779	Antagonistic roles of Nibbler and Hen1 in modulating piRNA 3' ends in <i>Drosophila</i> . 2016 , 143, 530-9		43
1778	When rejuvenation is a problem: challenges of modeling late-onset neurodegenerative disease. 2015 , 142, 3085-9		31
1777	The NR4A nuclear receptors as potential targets for anti-aging interventions. 2015 , 84, 135-40		18
1776	The GSK-3 family as therapeutic target for myocardial diseases. 2015 , 116, 138-49		127
1775	The unfolded protein response and cellular senescence. A review in the theme: cellular mechanisms of endoplasmic reticulum stress signaling in health and disease. 2015 , 308, C415-25		171
1774	Hallmarks of the ageing lung. 2015 , 45, 807-27		172
1773	A platform for rapid exploration of aging and diseases in a naturally short-lived vertebrate. <i>Cell</i> , 2015 , 160, 1013-1026	56.2	133
1772	Serum copper to zinc ratio: Relationship with aging and health status. 2015 , 151, 93-100		99
1771	Weaning triggers a maturation step of pancreatic β cells. 2015 , 32, 535-45		89
1770	Chondrosenescence: definition, hallmarks and potential role in the pathogenesis of osteoarthritis. 2015 , 80, 237-44		122
1769	Ageing and inflammation - A central role for mitochondria in brain health and disease. 2015 , 21, 30-42		59
1768	RecQ helicases and PARP1 team up in maintaining genome integrity. 2015 , 23, 12-28		30
1767	Mechanisms of development of multimorbidity in the elderly. 2015 , 45, 790-806		109
1766	Age-related changes in resting energy expenditure in normal weight, overweight and obese men and women. 2015 , 80, 406-13		18
1765	mESC-based in vitro differentiation models to study vascular response and functionality following genotoxic insults. 2015 , 144, 138-50		9
1764	Global reorganization of the nuclear landscape in senescent cells. 2015 , 10, 471-83		191
1763	Transient delivery of modified mRNA encoding TERT rapidly extends telomeres in human cells. 2015 , 29, 1930-9		66

1762	Parallel profiling of fission yeast deletion mutants for proliferation and for lifespan during long-term quiescence. 2014 , 5, 145-55	23
1761	Mechanisms of maladaptive repair after AKI leading to accelerated kidney ageing and CKD. 2015 , 11, 264-76	378
1760	Discovering novel microRNAs and age-related nonlinear changes in rat brains using deep sequencing. 2015 , 36, 1037-44	18
1759	Cognitive frailty, a novel target for the prevention of elderly dependency. 2015 , 20, 1-10	140
1758	Sirtuin function in aging heart and vessels. 2015 , 83, 55-61	67
1757	Protein synthesis as an integral quality control mechanism during ageing. 2015 , 23, 75-89	13
1756	Insights into the evolution of longevity from the bowhead whale genome. 2015 , 10, 112-22	203
1755	Concise review: hematopoietic stem cell aging and the prospects for rejuvenation. 2015 , 4, 186-94	24
1754	Elimination of unfit cells maintains tissue health and prolongs lifespan. <i>Cell</i> , 2015 , 160, 461-76	56.2 98
1753	Telomere length differences between subcutaneous and visceral adipose tissue in humans. 2015 , 457, 426-32	38
1752	Autophagy in malignant transformation and cancer progression. 2015 , 34, 856-80	801
1751	Tipping the metabolic scales towards increased longevity in mammals. 2015 , 17, 196-203	90
1750	SIRT6 rescues the age related decline in base excision repair in a PARP1-dependent manner. 2015 , 14, 269-76	74
1749	Curcumin induces senescence of primary human cells building the vasculature in a DNA damage and ATM-independent manner. 2015 , 37, 9744	29
1748	Accelerating aging research: how can we measure the rate of biologic aging?. 2015 , 64, 78-80	36
1747	Bioactive silica nanoparticles reverse age-associated bone loss in mice. 2015 , 11, 959-967	28
1746	Comparison of senescence-associated miRNAs in primary skin and lung fibroblasts. 2015 , 16, 423-34	11
1745	Stem Cell Senescence as the Memory of Past Injuries. 2015 , 3, 17-26	3

1744	Aging and DNA methylation. 2015 , 13, 7	282
1743	Chromatin methylation and cardiovascular aging. 2015 , 83, 21-31	16
1742	Invertebrates as model organisms for research on aging biology. 2015 , 59, 1-4	16
1741	PARK2-mediated mitophagy is involved in regulation of HBEC senescence in COPD pathogenesis. 2015 , 11, 547-59	150
1740	Impact of nutrition on the ageing process. 2015 , 113 Suppl, S18-22	36
1739	Mitochondrial function and lifespan of mice with controlled ubiquinone biosynthesis. 2015 , 6, 6393	68
1738	Host age is a systemic regulator of gene expression impacting cancer progression. 2015 , 75, 1134-43	25
1737	Editorial overview: Musculoskeletal: Are there common targets to prevent age-related changes in muscle, cartilage and bone?. 2015 , 22, v-viii	1
1736	A Periodic Diet that Mimics Fasting Promotes Multi-System Regeneration, Enhanced Cognitive Performance, and Healthspan. 2015 , 22, 86-99	418
1735	DNA repair defects and genome instability in Hutchinson-Gilford Progeria Syndrome. 2015 , 34, 75-83	79
1734	Mechanisms by which different functional states of mitochondria define yeast longevity. 2015 , 16, 5528-54	24
1733	Cellular Mechanisms of Age-Related Hearing Loss. 2015 , 305-333	3
1732	Proteomic analysis reveals novel common genes modulated in both replicative and stress-induced senescence. 2015 , 128, 18-29	8
1731	High-throughput analysis of yeast replicative aging using a microfluidic system. 2015 , 112, 9364-9	101
1730	Interfacing mitochondrial biogenesis and elimination to enhance host pathogen defense and longevity. 2015 , 4, e1071763	5
1729	Pharmacotherapy in the ageing patient: The impact of age per se (A review). 2015 , 24, 99-110	10
1728	Intrinsic and extrinsic mortality reunited. 2015 , 67, 48-53	15
1727	Noncoding Transcriptional Landscape in Human Aging. 2016 , 394, 177-202	5

1726	NF- κ B activation impairs somatic cell reprogramming in ageing. 2015 , 17, 1004-13	80
1725	Genetics and pharmacology of longevity: the road to therapeutics for healthy aging. 2015 , 90, 1-101	31
1724	The Ras-Erk-ETS-Signaling Pathway Is a Drug Target for Longevity. <i>Cell</i> , 2015 , 162, 72-83	56.2 115
1723	SIRT3 regulates progression and development of diseases of aging. 2015 , 26, 486-492	124
1722	Ablation of the p16(INK4a) tumour suppressor reverses ageing phenotypes of klotho mice. 2015 , 6, 7035	47
1721	Stem Cell Aging: Mechanisms, Consequences, Rejuvenation. 2015 ,	
1720	Sirtuins, aging, and cardiovascular risks. 2015 , 37, 9804	21
1719	Metabolomic analyses reveal that anti-aging metabolites are depleted by palmitate but increased by oleate in vivo. 2015 , 14, 2399-407	22
1718	Mice with Pulmonary Fibrosis Driven by Telomere Dysfunction. 2015 , 12, 286-99	126
1717	Mitochondrial decline precedes phenotype development in the complement factor H mouse model of retinal degeneration but can be corrected by near infrared light. 2015 , 36, 2869-76	34
1716	High-fat diet and FGF21 cooperatively promote aerobic thermogenesis in mtDNA mutator mice. 2015 , 112, 8714-9	37
1715	2-Oxoglutarate-dependent dioxygenases are sensors of energy metabolism, oxygen availability, and iron homeostasis: potential role in the regulation of aging process. 2015 , 72, 3897-914	57
1714	Extended in vitro maturation affects gene expression and DNA methylation in bovine oocytes. 2015 , 21, 770-82	15
1713	Aging Research - Methodological Issues. 2015 ,	1
1712	Cellular Senescence in Type 2 Diabetes: A Therapeutic Opportunity. 2015 , 64, 2289-98	211
1711	Advanced therapy medicinal products: Gene therapy. 2015 , 17, 253-264	
1710	Maintenance of homeostasis in the aging hypothalamus: the central and peripheral roles of succinate. 2015 , 6, 7	19
1709	DDR-mediated crosstalk between DNA-damaged cells and their microenvironment. 2015 , 6, 94	67

1708	Current research in aging: a report from the 2015 Ageing Summit. 2015 , 5, 187-90	2
1707	Mechanisms and functions of Nrf2 signaling in Drosophila. 2015 , 88, 302-313	55
1706	Replicating through telomeres: a means to an end. 2015 , 40, 504-15	91
1705	Cardiorespiratory Capacity and Leukocyte Telomere Length Among Adults in the United States. 2015 , 182, 198-201	29
1704	Multitasking Roles for Poly(ADP-ribosyl)ation in Aging and Longevity. 2015 , 125-179	1
1703	Aging without Apolipoprotein D: Molecular and cellular modifications in the hippocampus and cortex. 2015 , 67, 19-47	24
1702	Reversal of mitochondrial defects with CSB-dependent serine protease inhibitors in patient cells of the progeroid Cockayne syndrome. 2015 , 112, E2910-9	42
1701	Oxidative stress, mitochondrial and proteostasis malfunction in adrenoleukodystrophy: A paradigm for axonal degeneration. 2015 , 88, 18-29	39
1700	Inhibition of telomere recombination by inactivation of KEOPS subunit Cgi121 promotes cell longevity. 2015 , 11, e1005071	11
1699	Effects of increased paternal age on sperm quality, reproductive outcome and associated epigenetic risks to offspring. 2015 , 13, 35	179
1698	Tumor-promoting/progressing role of additional chromosome instability in hepatic carcinogenesis in Sgo1 (Shugoshin 1) haploinsufficient mice. 2015 , 36, 429-40	14
1697	Farnesol-like endogenous sesquiterpenoids in vertebrates: the probable but overlooked functional "inbrome" anti-aging counterpart of juvenile hormone of insects?. 2014 , 5, 222	10
1696	Defining the General Principles of Stem Cell Aging: Lessons from Organismal Models. 2015 , 1, 162-169	2
1695	Longevity Sticker Shock: The One Remaining Obstacle to Widespread Credentialed Support for Rejuvenation Biotechnology. 2015 , 18, 201-2	
1694	Analytical approaches to the diagnosis and treatment of aging and aging-related disease: redox status and proteomics. 2015 , 49, 511-24	27
1693	The Redox Code. 2015 , 23, 734-46	354
1692	Essential role for the ATG4B protease and autophagy in bleomycin-induced pulmonary fibrosis. 2015 , 11, 670-84	95
1691	Aging stem cells. A Werner syndrome stem cell model unveils heterochromatin alterations as a driver of human aging. 2015 , 348, 1160-3	320

1690	UPR(mt)-mediated cytoprotection and organismal aging. 2015 , 1847, 1448-56	77
1689	Imaging of cellular aging in human retinal blood vessels. 2015 , 135, 14-25	16
1688	Caloric restriction and the adipokine leptin alter the SDF-1 signaling axis in bone marrow and in bone marrow derived mesenchymal stem cells. 2015 , 410, 64-72	10
1687	Human aging in the post-GWAS era: further insights reveal potential regulatory variants. 2015 , 16, 529-41	3
1686	Predicting the Pro-Longevity or Anti-Longevity Effect of Model Organism Genes with New Hierarchical Feature Selection Methods. 2015 , 12, 262-75	22
1685	Molecular mechanisms of dietary restriction in aging-insights from <i>Caenorhabditis elegans</i> research. 2015 , 58, 352-8	6
1684	Autophagic activity as an indicator for selecting good quality embryos. 2015 , 14, 57-64	6
1683	Current aging research in China. 2015 , 6, 314-21	25
1682	Asthma in the Elderly. 2015 , 4, 174-182	1
1681	When Anti-Aging Studies Meet Cancer Chemoprevention: Can Anti-Aging Agent Kill Two Birds with One Blow?. 2015 , 1, 420-433	7
1680	The hallmarks of cancer: relevance to the pathogenesis of polycystic kidney disease. 2015 , 11, 515-34	79
1679	From inflammaging to healthy aging by dietary lifestyle choices: is epigenetics the key to personalized nutrition?. 2015 , 7, 33	125
1678	Cardiac aging - Getting to the stem of the problem. 2015 , 83, 32-6	34
1677	Longevity, Rejuvenation, and Rasayana. 2015 , 259-291	1
1676	The mechanism of ageing: primary role of transposable elements in genome disintegration. 2015 , 72, 1839-47	40
1675	An automated phenotype-based microscopy screen to identify pro-longevity interventions acting through mitochondria in <i>C. elegans</i> . 2015 , 1847, 1469-78	14
1674	A Frailty Index Based on Common Laboratory Tests in Comparison With a Clinical Frailty Index for Older Adults in Long-Term Care Facilities. 2015 , 16, 842-7	67
1673	Why is aging conserved and what can we do about it?. 2015 , 13, e1002131	49

1672	Longevity extension by phytochemicals. 2015 , 20, 6544-72	65
1671	Single Cell Sequencing and Systems Immunology. 2015 ,	2
1670	Ageing and Multimorbidity: New Tasks, Priorities, and Frontiers for Integrated Gerontological and Clinical Research. 2015 , 16, 640-7	217
1669	Longevity Genes. 2015 ,	2
1668	The renin-angiotensin system and its involvement in vascular disease. 2015 , 763, 3-14	72
1667	iPSCs as a major opportunity to understand and cure age-related diseases. 2015 , 16, 399-410	5
1666	Ageing-associated changes in the human DNA methylome: genomic locations and effects on gene expression. 2015 , 16, 179	82
1665	Evolutionary genetic bases of longevity and senescence. 2015 , 847, 1-44	9
1664	Candidate genes that affect aging through protein homeostasis. 2015 , 847, 45-72	5
1663	Exome and whole genome sequencing in aging and longevity. 2015 , 847, 127-39	5
1662	New roles for mitochondrial proteases in health, ageing and disease. 2015 , 16, 345-59	333
1661	Control of Autophagy in Parkinson's Disease. 2015 , 91-122	
1660	MAD2L2 controls DNA repair at telomeres and DNA breaks by inhibiting 5' end resection. 2015 , 521, 537-540	194
1659	Stress Responses. 2015 ,	4
1658	Genomic instability: Crossing pathways at the origin of structural and numerical chromosome changes. 2015 , 56, 563-80	22
1657	Mitochondrial Medicine. 2015 ,	2
1656	Stem cells. Holding your breath for longevity. 2015 , 347, 1319-20	10
1655	Stem cell aging. A mitochondrial UPR-mediated metabolic checkpoint regulates hematopoietic stem cell aging. 2015 , 347, 1374-7	301

1654	Toxicity and Autophagy in Neurodegenerative Disorders. 2015 ,	1
1653	Single-cell telomere-length quantification couples telomere length to meristem activity and stem cell development in Arabidopsis. 2015 , 11, 977-989	16
1652	MARK-AGE biomarkers of ageing. 2015 , 151, 2-12	145
1651	Gender- and region-dependent changes of redox biomarkers in the brain of successfully aging LOU/C rats. 2015 , 149, 19-30	7
1650	Inflammaging and cancer: a challenge for the Mediterranean diet. 2015 , 7, 2589-621	117
1649	Redox theory of aging. 2015 , 5, 71-79	121
1648	A nuclear role for the respiratory enzyme CLK-1 in regulating mitochondrial stress responses and longevity. 2015 , 17, 782-92	61
1647	Mitochondria, muscle health, and exercise with advancing age. 2015 , 30, 208-23	94
1646	The role of mitochondrial DNA mutation on neurodegenerative diseases. 2015 , 47, e150	84
1645	Folates and aging: Role in mild cognitive impairment, dementia and depression. 2015 , 22, 9-19	94
1644	Meeting current musculoskeletal health demand through deeper insights into tissue homeostasis and regeneration. 2015 , 15, 767-71	6
1643	Three-dimensional human facial morphologies as robust aging markers. 2015 , 25, 574-87	56
1642	Caloric restriction, resveratrol and melatonin: Role of SIRT1 and implications for aging and related-diseases. 2015 , 146-148, 28-41	114
1641	Understanding and reducing disability in older adults following critical illness. 2015 , 43, 1265-75	78
1640	Ablation of insulin-producing cells prevents obesity but not premature mortality caused by a high-sugar diet in Drosophila. 2015 , 282, 20141720	9
1639	Near-infrared light increases ATP, extends lifespan and improves mobility in aged Drosophila melanogaster. 2015 , 11,	25
1638	Investigating the regulation of stem and progenitor cell mitotic progression by in situ imaging. 2015 , 25, 1123-34	25
1637	Myc mouse and anti-ageing therapy. 2015 , 26, 163-4	1

1636	Accelerated ageing of the lung in COPD: new concepts. 2015 , 70, 482-9	187
1635	Analysis of lifespan-promoting effect of garlic extract by an integrated metabolo-proteomics approach. 2015 , 26, 808-17	15
1634	Biomolecular bases of the senescence process and cancer. A new approach to oncological treatment linked to ageing. 2015 , 23, 125-38	17
1633	Distinct metabolomic signatures are associated with longevity in humans. 2015 , 6, 6791	81
1632	Emerging targets in osteoarthritis therapy. 2015 , 22, 51-63	112
1631	Translational Research in the Fastest-Growing Population. 2015 , 299-311	2
1630	Muscle stem cell aging: regulation and rejuvenation. 2015 , 26, 287-96	95
1629	The influence of dietary fat source on liver and skeletal muscle mitochondrial modifications and lifespan changes in calorie-restricted mice. 2015 , 16, 655-70	13
1628	CINcere Modelling: What Have Mouse Models for Chromosome Instability Taught Us?. 2015 , 200, 39-60	18
1627	The DNA damage response induces inflammation and senescence by inhibiting autophagy of GATA4. 2015 , 349, aaa5612	478
1626	Genetics and genomics of psychiatric disease. 2015 , 349, 1489-94	249
1625	Somatic mutation in cancer and normal cells. 2015 , 349, 1483-9	608
1624	, a powerful model for aging studies. 2015 , 59, 11-16	34
1623	Frailty for Surgeons: Review of a National Institute on Aging Conference on Frailty for Specialists. 2015 , 221, 1083-92	161
1622	Closing the Circle: Stem Cell Rejuvenation and Longevity. 2015 , 343-354	
1621	The Neural Progenitor Cell (NPC) Niche in the Adult Brain Provides a Target for Neurotoxicity: A Putative Adverse Outcome Pathway for ROS-Induced NPC Dysfunction with Higher Sensitivity During Aging. 2015 , 413-425	
1620	Smoking and interstitial lung diseases. 2015 , 24, 428-35	33
1619	Regenerative biology of tendon: mechanisms for renewal and repair. 2015 , 1, 124-131	34

1618	Integrated Transcriptome and Proteome Analyses Reveal Organ-Specific Proteome Deterioration in Old Rats. 2015 , 1, 224-37	120
1617	Oxidative Stress in the Aging Process: Fundamental Aspects and New Insights. 2015 , 177-219	4
1616	Understanding the susceptibility of dopamine neurons to mitochondrial stressors in Parkinson's disease. 2015 , 589, 3702-13	65
1615	[Hematopoietic stem cell exhaustion and advanced glycation end-products in the unexplained anemia of the elderly]. 2015 , 50, 223-31	3
1614	SIMply Better Resolution in Live Cells. 2015 , 25, 636-638	4
1613	Age-related proteostasis and metabolic alterations in Caspase-2-deficient mice. 2015 , 6, e1615	28
1612	Frailty: a tale of two concepts. 2015 , 13, 185	79
1611	Increased abundance of translation machinery in stem cell-derived neural progenitor cells from four schizophrenia patients. 2015 , 5, e662	34
1610	The InflammTORy Powers of Senescence. 2015 , 25, 634-636	9
1609	Age-regulated function of autophagy in the mouse inner ear. 2015 , 330, 39-50	29
1608	Mir-23a induces telomere dysfunction and cellular senescence by inhibiting TRF2 expression. 2015 , 14, 391-9	41
1607	Aging and radiation: bad companions. 2015 , 14, 153-61	40
1606	Cell-based screen for altered nuclear phenotypes reveals senescence progression in polyploid cells after Aurora kinase B inhibition. 2015 , 26, 2971-85	31
1605	Ribose-5-phosphate isomerase A regulates hepatocarcinogenesis via PP2A and ERK signaling. 2015 , 137, 104-15	27
1604	Random monoallelic expression of autosomal genes: stochastic transcription and allele-level regulation. 2015 , 16, 653-64	101
1603	A respiratory chain controlled signal transduction cascade in the mitochondrial intermembrane space mediates hydrogen peroxide signaling. 2015 , 112, E5679-88	47
1602	[Stress and optimal ageing]. 2015 , 48, 524-8	
1601	Reprogramming aging through DOT1L inhibition. 2015 , 14, 3345-6	13

1600	Mitochondrial Respiration Controls Lysosomal Function during Inflammatory T Cell Responses. 2015 , 22, 485-98	154
1599	Combined CSL and p53 downregulation promotes cancer-associated fibroblast activation. 2015 , 17, 1193-204	131
1598	SKN-1/Nrf, stress responses, and aging in <i>Caenorhabditis elegans</i> . 2015 , 88, 290-301	269
1597	Transcription errors induce proteotoxic stress and shorten cellular lifespan. 2015 , 6, 8065	46
1596	Basic mechanisms of longevity: A case study of <i>Drosophila</i> pro-longevity genes. 2015 , 24, 218-31	23
1595	Clinical Advances in Geriatric Psychiatry: A Focus on Prevention of Mood and Cognitive Disorders. 2015 , 38, 495-514	13
1594	Frailty: Scaling from Cellular Deficit Accumulation?. 2015 , 41, 1-14	17
1593	Frailty and Social Vulnerability. 2015 , 41, 186-95	31
1592	Stem Cell Depletion by Global Disorganization of the H3K9me3 Epigenetic Marker in Aging. 2015 , 18, 371-5	15
1591	Chronic obstructive pulmonary disease and cerebrovascular disease: A comprehensive review. 2015 , 109, 1371-80	70
1590	Of mice, pigs and humans: An analysis of mitochondrial phospholipids from mammals with very different maximal lifespans. 2015 , 70, 135-43	16
1589	Epigenetic mechanisms of dietary restriction induced aging in <i>Drosophila</i> . 2015 , 72, 38-44	13
1588	Preventing clonal evolutionary processes in cancer: Insights from mathematical models. 2015 , 112, 8843-50	14
1587	Red blood cells open promising avenues for longitudinal studies of ageing in laboratory, non-model and wild animals. 2015 , 71, 118-34	57
1586	Transcriptomic and epigenetic analyses reveal a gender difference in aging-associated inflammation: the Vitality 90+ study. 2015 , 37, 9814	28
1585	Questioning causal involvement of telomeres in aging. 2015 , 24, 191-6	69
1584	Micronucleus frequency in peripheral blood lymphocytes and frailty status in elderly. A lack of association with clinical features. 2015 , 780, 47-54	5
1583	Janus-faced Sestrin2 controls ROS and mTOR signalling through two separate functional domains. 2015 , 6, 10025	93

1582	Telomeres shorten more slowly in slow-aging wild animals than in fast-aging ones. 2015 , 71, 38-47	55
1581	Hexapeptide-11 is a novel modulator of the proteostasis network in human diploid fibroblasts. 2015 , 5, 205-215	20
1580	Cell Therapy Strategies to Combat Immunosenescence. 2015 , 11, 159-72	33
1579	Proteasome activation: An innovative promising approach for delaying aging and retarding age-related diseases. 2015 , 23, 37-55	73
1578	Epigenetic mechanisms regulate NADPH oxidase-4 expression in cellular senescence. 2015 , 79, 197-205	57
1577	Dissection of the cord blood stromal component reveals predictive parameters for culture outcome. 2015 , 24, 104-14	19
1576	Endocannabinoid signalling and the deteriorating brain. 2015 , 16, 30-42	221
1575	The amazing ubiquitin-proteasome system: structural components and implication in aging. 2015 , 314, 171-237	50
1574	Dauer-independent insulin/IGF-1-signalling implicates collagen remodelling in longevity. 2015 , 519, 97-101	168
1573	Spermidine induces autophagy by inhibiting the acetyltransferase EP300. 2015 , 22, 509-16	168
1572	Exercise attenuates the major hallmarks of aging. 2015 , 18, 57-89	181
1571	Proteolysis mediated by cysteine cathepsins and legumain-recent advances and cell biological challenges. 2015 , 252, 755-74	30
1570	A neuronal DNA damage response is detected at the earliest stages of Alzheimer's neuropathology and correlates with cognitive impairment in the Medical Research Council's Cognitive Function and Ageing Study ageing brain cohort. 2015 , 41, 483-96	27
1569	Characterization of bone marrow-derived mesenchymal stem cells in aging. 2015 , 70, 37-47	163
1568	Role of Cigarette Smoke-Induced Aggresome Formation in Chronic Obstructive Pulmonary Disease-Emphysema Pathogenesis. 2015 , 53, 159-73	77
1567	Aging and brain rejuvenation as systemic events. 2015 , 132, 5-19	53
1566	Omega-3 polyunsaturated fatty acids improve mitochondrial dysfunction in brain aging--impact of Bcl-2 and NPD-1 like metabolites. 2015 , 92, 23-31	67
1565	A prospective epigenetic paradigm between cellular senescence and epithelial-mesenchymal transition in organismal development and aging. 2015 , 165, 241-9	11

1564	Mechanisms and biological functions of autophagy in diseased and ageing kidneys. 2015 , 11, 34-45	68
1563	DAMPs, ageing, and cancer: The 'DAMP Hypothesis'. 2015 , 24, 3-16	89
1562	GDF15 is a novel biomarker to evaluate efficacy of pyruvate therapy for mitochondrial diseases. 2015 , 20, 34-42	74
1561	Multisystem physiologic impairments and changes in gait speed of older adults. 2015 , 70, 319-24	39
1560	20S proteasome activation promotes life span extension and resistance to proteotoxicity in <i>Caenorhabditis elegans</i> . 2015 , 29, 611-22	101
1559	Emerging regulators of the inflammatory process in osteoarthritis. 2015 , 11, 35-44	352
1558	<i>Cryptomphalus aspersa</i> mollusc eggs extract promotes migration and prevents cutaneous ageing in keratinocytes and dermal fibroblasts in vitro. 2015 , 37, 41-55	14
1557	Hitting the High Notes: Healthy Aging in Professional Orchestral Musicians. 2016 , 355-376	2
1556	The Impact of the Eye in Dementia: The Eye and its Role in Diagnosis and Follow-up. 2016 ,	5
1555	Aldehyde dehydrogenase 2 activation in aged heart improves the autophagy by reducing the carbonyl modification on SIRT1. 2016 , 7, 2175-88	36
1554	Unraveling Stochastic Aging Processes in Mouse Liver: Dissecting Biological from Chronological Age. 2016 , 11-19	0
1553	Loss of p53-mediated cell-cycle arrest, senescence and apoptosis promotes genomic instability and premature aging. 2016 , 7, 11838-49	44
1552	Induction of Nuclear Enlargement and Senescence by Sirtuin Inhibitors in Glioblastoma Cells. 2016 , 16, 183-8	11
1551	Molecular and Cellular Basis of Aging. 2016 , 3-9	3
1550	A Mitochondrial Perspective of Chronic Obstructive Pulmonary Disease Pathogenesis. 2016 , 79, 207-213	29
1549	Early Life Origins of Adult Health and Aging. 2016 , 101-122	2
1548	Comparative Large-Scale Mitogenomics Evidences Clade-Specific Evolutionary Trends in Mitochondrial DNAs of <i>Bivalvia</i> . 2016 , 8, 2544-64	40
1547	Extracellular Vesicles as New Players in Cellular Senescence. 2016 , 17,	72

1546	Candidate genes of idiopathic pulmonary fibrosis: current evidence and research. 2016 , 9, 5-13	9
1545	Stage dependent nutritional regulation of transgenerational longevity. 2016 , 4, 47-54	5
1544	Normal Aging and Dementia. 2016 ,	5
1543	Nutrition in the Elderly: General Aspects. 2016 , 41-55	0
1542	Aging. 2016 , 145-176	
1541	Beyond Diabetes: Does Obesity-Induced Oxidative Stress Drive the Aging Process?. 2016 , 5,	26
1540	Molecular Diagnosis and Precision Therapeutic Approaches for Telomere Biology Disorders. 2016 ,	2
1539	Effects of Ageing in Physical Fitness. 2016 , 4,	1
1538	Involvement of <i>Daphnia pulex</i> Sir2 in regulating stress response and lifespan. 2016 , 8, 402-17	11
1537	The Aging Workforce Handbook. 2016 ,	2
1536	Nutrition and lifestyle in healthy aging: the telomerase challenge. 2016 , 8, 12-5	38
1535	Finding Ponce de Leon's Pill: Challenges in Screening for Anti-Aging Molecules. 2016 , 5,	16
1534	Caloric restriction stimulates autophagy in rat cortical neurons through neuropeptide Y and ghrelin receptors activation. 2016 , 8, 1470-84	37
1533	Rejuvenation on the Road to Pluripotency. 2016 ,	
1532	Longevity of animals under reactive oxygen species stress and disease susceptibility due to global warming. 2016 , 7, 110-27	31
1531	Telomeres and telomerase as therapeutic targets to prevent and treat age-related diseases. 2016 , 5,	51
1530	Inflammaging increases susceptibility to cigarette smoke-induced COPD. 2016 , 7, 30068-83	33
1529	The Molecular Basis of the Immune Response to Stressed Cells and Tissues. 2016 , 53-79	

1528	Systematic and Cell Type-Specific Telomere Length Changes in Subsets of Lymphocytes. 2016 , 2016, 5371050	64
1527	Hypoxic mitophagy regulates mitochondrial quality and platelet activation and determines severity of I/R heart injury. 2016 , 5,	112
1526	Differential Proteomic Analysis of Human Placenta-Derived Mesenchymal Stem Cells Cultured on Normal Tissue Culture Surface and Hyaluronan-Coated Surface. 2016 , 2016, 2809192	6
1525	Ultraviolet Radiation-Induced Skin Aging: The Role of DNA Damage and Oxidative Stress in Epidermal Stem Cell Damage Mediated Skin Aging. 2016 , 2016, 7370642	145
1524	"Inflammaging" as a Druggable Target: A Senescence-Associated Secretory Phenotype-Centered View of Type 2 Diabetes. 2016 , 2016, 1810327	68
1523	ROS, Cell Senescence, and Novel Molecular Mechanisms in Aging and Age-Related Diseases. 2016 , 2016, 3565127	395
1522	Cross Talk of Proteostasis and Mitostasis in Cellular Homeodynamics, Ageing, and Disease. 2016 , 2016, 4587691	28
1521	Epithelial magnesium transport by TRPM6 is essential for prenatal development and adult survival. 2016 , 5,	69
1520	Current Evidence for Developmental, Structural, and Functional Brain Defects following Prenatal Radiation Exposure. 2016 , 2016, 1243527	22
1519	SPRTN is a mammalian DNA-binding metalloprotease that resolves DNA-protein crosslinks. 2016 , 5,	84
1518	Evidence for the hallmarks of human aging in replicatively aging yeast. 2016 , 3, 263-274	42
1517	Six plant extracts delay yeast chronological aging through different signaling pathways. 2016 , 7, 50845-50863	12
1516	Discovery of plant extracts that greatly delay yeast chronological aging and have different effects on longevity-defining cellular processes. 2016 , 7, 16542-66	17
1515	DNA Damage: A Main Determinant of Vascular Aging. 2016 , 17,	47
1514	TGF- β and NF- κ B signaling pathway crosstalk potentiates corneal epithelial senescence through an RNA stress response. 2016 , 8, 2337-2354	20
1513	Mechanisms of Action of Curcumin on Aging: Nutritional and Pharmacological Applications. 2016 , 491-511	6
1512	Prostate Cancer: Is It a Battle Lost to Age?. 2016 , 1,	6
1511	Maintenance of age in human neurons generated by microRNA-based neuronal conversion of fibroblasts. 2016 , 5,	106

1510	The Role of Autophagy, Mitophagy and Lysosomal Functions in Modulating Bioenergetics and Survival in the Context of Redox and Proteotoxic Damage: Implications for Neurodegenerative Diseases. 2016 , 7, 150-62	62
1509	Amniotic Epithelial Cells: A New Tool to Combat Aging and Age-Related Diseases?. 2016 , 4, 135	16
1508	Vitamin C, Antioxidant Status, and Cardiovascular Aging. 2016 , 609-619	6
1507	Role of lncRNAs in Cellular Aging. 2016 , 7, 151	27
1506	Simplified Assay for Epigenetic Age Estimation in Whole Blood of Adults. 2016 , 7, 126	38
1505	Exploring the Homeostatic and Sensory Roles of the Immune System. 2016 , 7, 125	22
1504	Supplementation with WCFS1 Prevents Decline of Mucus Barrier in Colon of Accelerated Aging Mice. 2016 , 7, 408	34
1503	Editorial: Role of Stem Cells in Skeletal Muscle Development, Regeneration, Repair, Aging, and Disease. 2016 , 8, 95	3
1502	Mechanosensory Neuron Aging: Differential Trajectories with Lifespan-Extending Alaskan Berry and Fungal Treatments in <i>Caenorhabditis elegans</i> . 2016 , 8, 173	13
1501	Commentary: XBP-1 Is a Cell-Nonautonomous Regulator of Stress Resistance and Longevity. 2016 , 8, 182	3
1500	Environmental Enrichment Modified Epigenetic Mechanisms in SAMP8 Mouse Hippocampus by Reducing Oxidative Stress and Inflammation and Achieving Neuroprotection. 2016 , 8, 241	44
1499	Evidence of Tau Hyperphosphorylation and Dystrophic Microglia in the Common Marmoset. 2016 , 8, 315	36
1498	Role of Telomerase in the Cardiovascular System. 2016 , 7,	19
1497	EQ-5D-5L in the General German Population: Comparison and Evaluation of Three Yearly Cross-Section Surveys. 2016 , 13,	25
1496	Connecting the Dots: From DNA Damage and Repair to Aging. 2016 , 17,	34
1495	Extracellular Vesicles in Chronic Obstructive Pulmonary Disease. 2016 , 17,	43
1494	A Joint Less Ordinary: Intriguing Roles for Hedgehog Signalling in the Development of the Temporomandibular Synovial Joint. 2016 , 4,	6
1493	Olive Oil and the Hallmarks of Aging. 2016 , 21, 163	39

1492	Phylloquinone and Menaquinone-4 Tissue Distribution at Different Life Stages in Male and Female Sprague-Dawley Rats Fed Different VK Levels Since Weaning or Subjected to a 40% Calorie Restriction since Adulthood. 2016 , 8, 141	9
1491	Validation and comparison of instruments to identify frail patientes in primary care settings: Study protocol. 2016 , 16, 354	8
1490	Genes Related to Fatty Acid β Oxidation Play a Role in the Functional Decline of the Drosophila Brain with Age. 2016 , 11, e0161143	6
1489	Mtu1-Mediated Thiouridine Formation of Mitochondrial tRNAs Is Required for Mitochondrial Translation and Is Involved in Reversible Infantile Liver Injury. 2016 , 12, e1006355	21
1488	Excess of Yra1 RNA-Binding Factor Causes Transcription-Dependent Genome Instability, Replication Impairment and Telomere Shortening. 2016 , 12, e1005966	16
1487	Water-Transfer Slows Aging in <i>Saccharomyces cerevisiae</i> . 2016 , 11, e0148650	7
1486	Method Specific Calibration Corrects for DNA Extraction Method Effects on Relative Telomere Length Measurements by Quantitative PCR. 2016 , 11, e0164046	23
1485	Improving Mitochondrial Function Protects Bumblebees from Neonicotinoid Pesticides. 2016 , 11, e0166531	19
1484	Physiological and Pathological Aging Affects Chromatin Dynamics, Structure and Function at the Nuclear Edge. 2016 , 7, 153	22
1483	Mammalian Target of Rapamycin (mTOR), Aging, Neuroscience, and Their Association with Aging-Related Diseases. 2016 , 185-203	
1482	: A Neuropharmacology Review. 2016 , 7, 289	30
1481	Mitochondrial Quality Control and Muscle Mass Maintenance. 2015 , 6, 422	218
1480	Classification for Longevity Potential: The Use of Novel Biomarkers. 2016 , 4, 233	7
1479	Protective Effect of Ginsenoside Rg1 on Hematopoietic Stem/Progenitor Cells through Attenuating Oxidative Stress and the Wnt/ β Catenin Signaling Pathway in a Mouse Model of d-Galactose-induced Aging. 2016 , 17,	43
1478	XIAP-associating factor 1, a transcriptional target of BRD7, contributes to endothelial cell senescence. 2016 , 7, 5118-30	23
1477	Amyloid β Protein Aggravates Neuronal Senescence and Cognitive Deficits in 5XFAD Mouse Model of Alzheimer's Disease. 2016 , 129, 1835-44	36
1476	Interaction of Age at Diagnosis with Transcriptional Profiling in Papillary Thyroid Cancer. 2016 , 40, 2922-2929	14
1475	Uncoupling protein 2 protects mice from aging. 2016 , 30, 42-50	13

1474	The Hallmarks of Cancer from a Redox Perspective. 2016 , 25, 300-25	61
1473	Advanced glycation end products and their receptor in age-related, non-communicable chronic inflammatory diseases; Overview of clinical evidence and potential contributions to disease. 2016 , 81, 403-418	56
1472	TNF- α inhibits FoxO1 by Upregulating miR-705 to Aggravate Oxidative Damage in Bone Marrow-Derived Mesenchymal Stem Cells during Osteoporosis. 2016 , 34, 1054-67	84
1471	Pathways for salvage and protection of the heart under stress: novel routes for cardiac rejuvenation. 2016 , 111, 142-53	17
1470	Nutrients and ageing: what can we learn about ageing interactions from animal biology?. 2016 , 19, 19-25	13
1469	Mitochondria and senescence: new actors for an old play. 2016 , 35, 701-2	10
1468	DNA-methylation changes in replicative senescence and aging: two sides of the same coin?. 2016 , 8, 1-3	9
1467	GAMDB: a web resource to connect microRNAs with autophagy in gerontology. 2016 , 49, 246-51	8
1466	Evolutionary ecology of aging: time to reconcile field and laboratory research. 2016 , 6, 2988-3000	14
1465	'Adipaging': ageing and obesity share biological hallmarks related to a dysfunctional adipose tissue. 2016 , 594, 3187-207	93
1464	Skeletal inflammation and attenuation of Wnt signaling, Wnt ligand expression, and bone formation in atherosclerotic ApoE-null mice. 2016 , 310, E762-73	23
1463	The pathophysiology of defective proteostasis in the hypothalamus - from obesity to ageing. 2016 , 12, 723-733	59
1462	Age-dependent modulation of fasting and long-term dietary restriction on acetylcholinesterase in non-neuronal tissues of mice. 2016 , 419, 135-45	1
1461	Andrographolide recovers cognitive impairment in a natural model of Alzheimer's disease (Octodon degus). 2016 , 46, 204-20	47
1460	Impaired DNA double-strand break repair contributes to the age-associated rise of genomic instability in humans. 2016 , 23, 1765-1777	47
1459	Molecular mechanisms of biological aging in intervertebral discs. 2016 , 34, 1289-306	195
1458	Mitochondrial and nuclear DNA matching shapes metabolism and healthy ageing. 2016 , 535, 561-5	248
1457	miR-186 is decreased in aged brain and suppresses BACE1 expression. 2016 , 137, 436-45	57

1456	Exercise: the lifelong supplement for healthy ageing and slowing down the onset of frailty. 2016 , 594, 1989-99	51
1455	Ageing, metabolism and cardiovascular disease. 2016 , 594, 2061-73	164
1454	Ageing induced vascular smooth muscle cell senescence in atherosclerosis. 2016 , 594, 2115-24	80
1453	Reverse geroscience: how does exposure to early diseases accelerate the age-related decline in health?. 2016 , 1386, 30-44	18
1452	A role for Mfb1p in region-specific anchorage of high-functioning mitochondria and lifespan in <i>Saccharomyces cerevisiae</i> . 2016 , 7, 10595	32
1451	Gerontology versus Geriatrics: Different Ways of Understanding Ageing and Old Age. 2016 , 31-48	3
1450	Ageing in the musculoskeletal system. 2016 , 87, 15-25	46
1449	Novel mutations cause an aggressive atypical neonatal progeria without progerin accumulation. 2016 , 53, 776-785	14
1448	Forkhead-box A1 induces cell senescence in endometrial cancer by regulating p16INK4a. 2016 , 36, 795-802	2
1447	Altered brain energetics induces mitochondrial fission arrest in Alzheimer's Disease. 2016 , 6, 18725	108
1446	Changes in Frailty Predict Changes in Cognition in Older Men: The Honolulu-Asia Aging Study. 2016 , 53, 1003-13	27
1445	Is Chronic Obstructive Pulmonary Disease an Accelerated Aging Disease?. 2016 , 13 Suppl 5, S429-S437	43
1444	Life span extension by targeting a link between metabolism and histone acetylation in <i>Drosophila</i> . 2016 , 17, 455-69	93
1443	Defective DNA single-strand break repair is responsible for senescence and neoplastic escape of epithelial cells. 2016 , 7, 10399	68
1442	Uncovering the mechanisms of <i>Caenorhabditis elegans</i> ageing from global quantification of the underlying landscape. 2016 , 13,	7
1441	Lung Fibroblasts, Aging, and Idiopathic Pulmonary Fibrosis. 2016 , 13 Suppl 5, S417-S421	97
1440	Mammalian Target of Rapamycin: A Target for (Lung) Diseases and Aging. 2016 , 13 Suppl 5, S398-S401	12
1439	Cellular Senescence and Lung Function during Aging. Yin and Yang. 2016 , 13 Suppl 5, S402-S406	44

1438	WNT Signaling in Lung Aging and Disease. 2016 , 13 Suppl 5, S411-S416	41
1437	A Hidden Epithelial Barrier in the Brain with a Central Role in Regulating Brain Homeostasis. Implications for Aging. 2016 , 13 Suppl 5, S407-S410	17
1436	Contextual adversity, telomere erosion, pubertal development, and health: Two models of accelerated aging, or one?. 2016 , 28, 1367-1383	35
1435	Modifiable Factors Influencing Telomere Length and Aging. 2016 , 67-80	4
1434	Exosomes in the Preservation of Cellular Homeostasis. 2016 , 17-45	
1433	Longer telomeres in chronic, moderate, unconjugated hyperbilirubinaemia: insights from a human study on Gilbert's Syndrome. 2016 , 6, 22300	14
1432	SIRT7 promotes genome integrity and modulates non-homologous end joining DNA repair. 2016 , 35, 1488-503	150
1431	In Vivo Amelioration of Age-Associated Hallmarks by Partial Reprogramming. <i>Cell</i> , 2016 , 167, 1719-1733	343
1430	Epigenomics-Based Identification of Major Cell Identity Regulators within Heterogeneous Cell Populations. 2016 , 17, 3062-3076	18
1429	Disease drivers of aging. 2016 , 1386, 45-68	72
1428	Inflammation, Aging, and Oxidative Stress. 2016 ,	8
1427	Variation of global DNA methylation levels with age and in autistic children. 2016 , 10, 31	18
1426	Non-Thermal Atmospheric Pressure Plasma Efficiently Promotes the Proliferation of Adipose Tissue-Derived Stem Cells by Activating NO-Response Pathways. 2016 , 6, 39298	27
1425	Sirtuins and Aging. 2016 , 213-227	2
1424	Senescence: novel insight into DLX3 mutations leading to enhanced bone formation in Tricho-Dento-Osseous syndrome. 2016 , 6, 38680	7
1423	Nutrition, Epigenetics and Aging. 2016 , 103-131	
1422	The NAD World 2.0: the importance of the inter-tissue communication mediated by NAMPT/NAD/SIRT1 in mammalian aging and longevity control. 2016 , 2, 16018	44
1421	Regulation of Stem Cells in Their Niche. 2016 , 2, 282-289	1

1420 Cancer in the elderly. **2016**, 537-563

1419 Crosstalk between cellular compartments protects against proteotoxicity and extends lifespan. **2016**, 6, 28751 20

1418 Yeast longevity promoted by reversing aging-associated decline in heavy isotope content. **2016**, 2, 16004 16

1417 Gene expression signatures of human cell and tissue longevity. **2016**, 2, 16014 28

1416 What We Know About the Pathogenesis of Idiopathic Pulmonary Fibrosis. **2016**, 37, 358-67 26

1415 Genetics and Idiopathic Interstitial Pneumonias. **2016**, 37, 321-30 4

1414 Protein damage, radiation sensitivity and aging. **2016**, 44, 186-192 49

1413 Keeping the senescence secretome under control: Molecular reins on the senescence-associated secretory phenotype. **2016**, 82, 39-49 136

1412 The association of serum cathepsin B concentration with age-related cardiovascular-renal subclinical state in a healthy Chinese population. **2016**, 65, 146-55 9

1411 Anti-Aging Effect of *Siraitia grosvenorii* by Enhancement of Hematopoietic Stem Cell Function. **2016**, 44, 803-15 5

1410 DNA Damage Response in Hematopoietic Stem Cell Ageing. **2016**, 14, 147-154 25

1409 Proteostasis alterations in myeloproliferative neoplasms: Oncogenic relevance and therapeutic opportunities. **2016**, 44, 574-7 3

1408 Hematopoiesis during development, aging, and disease. **2016**, 44, 689-95 4

1407 Common SIRT1 variants modify the effect of abdominal adipose tissue on aging-related lung function decline. **2016**, 38, 52 9

1406 Critical role of lysosomes in the dysfunction of human Cardiac Stem Cells obtained from failing hearts. **2016**, 216, 140-50 14

1405 Erythrocyte encapsulated l-asparaginase (GRASPA) in acute leukemia. **2016**, 5, 11-25 14

1404 The Effect of Aging on Mitochondrial Complex I and the Extent of Oxidative Stress in the Rat Brain Cortex. **2016**, 41, 2160-72 20

1403 Screening for Frailty in Canada's Health Care System: A Time for Action. **2016**, 35, 281-97 60

1402	Ageing and the pathogenesis of osteoarthritis. 2016 , 12, 412-20	446
1401	MOTS-c: A novel mitochondrial-derived peptide regulating muscle and fat metabolism. 2016 , 100, 182-187	86
1400	The germline/soma dichotomy: implications for aging and degenerative disease. 2016 , 11, 331-4	2
1399	Changes in Drosophila mitochondrial proteins following chaperone-mediated lifespan extension confirm a role of Hsp22 in mitochondrial UPR and reveal a mitochondrial localization for cathepsin D. 2016 , 155, 36-47	14
1398	Species-specific lifespans: Can it be a lottery based on the mode of mitochondrial DNA replication?. 2016 , 155, 1-6	4
1397	The Mitochondrial Basis of Aging. 2016 , 61, 654-666	657
1396	Metabolism and the UPR(mt). 2016 , 61, 677-682	81
1395	A short leucocyte telomere length is associated with development of insulin resistance. 2016 , 59, 1258-65	59
1394	Age-related changes in AMPK activation: Role for AMPK phosphatases and inhibitory phosphorylation by upstream signaling pathways. 2016 , 28, 15-26	95
1393	Long Non-coding RNAs in Human Disease. 2016 ,	3
1392	Mitochondrial generation of superoxide and hydrogen peroxide as the source of mitochondrial redox signaling. 2016 , 100, 14-31	510
1391	Mechanisms of mitophagy: putting the powerhouse into the doghouse. 2016 , 397, 617-35	8
1390	Mitochondrial ROS Produced via Reverse Electron Transport Extend Animal Lifespan. 2016 , 23, 725-34	220
1389	Systematic correlation of environmental exposure and physiological and self-reported behaviour factors with leukocyte telomere length. 2017 , 46, 44-56	39
1388	A frailty index based on laboratory deficits in community-dwelling men predicted their risk of adverse health outcomes. 2016 , 45, 463-8	63
1387	The Role of Vitamin K in Chronic Aging Diseases: Inflammation, Cardiovascular Disease, and Osteoarthritis. 2016 , 5, 90-98	45
1386	Calorie restriction as an intervention in ageing. 2016 , 594, 2043-60	160
1385	Behaviour and cognitive changes correlated with hippocampal neuroinflammation and neuronal markers in female SAMP8, a model of accelerated senescence. 2016 , 80, 57-69	42

1384	Interventions for Human Frailty: Physical Activity as a Model. 2016 , 6,	53
1383	Autophagy at the Cell, Tissue and Organismal Level. 2016 ,	1
1382	Physiological Role of Autophagy and Implications in Disease. 2016 , 51-80	
1381	Two Conserved Histone Demethylases Regulate Mitochondrial Stress-Induced Longevity. <i>Cell</i> , 2016 , 165, 1209-1223	56.2 204
1380	NAD ⁺ repletion improves mitochondrial and stem cell function and enhances life span in mice. 2016 , 352, 1436-43	645
1379	Age-Dependent Pancreatic Gene Regulation Reveals Mechanisms Governing Human β Cell Function. 2016 , 23, 909-20	153
1378	Dietary Protein, Metabolism, and Aging. 2016 , 85, 5-34	83
1377	Lysosomal cathepsins and their regulation in aging and neurodegeneration. 2016 , 32, 22-37	193
1376	Suppression of REDD1 in osteoarthritis cartilage, a novel mechanism for dysregulated mTOR signaling and defective autophagy. 2016 , 24, 1639-47	29
1375	The effect of aging on brain barriers and the consequences for Alzheimer's disease development. 2016 , 27, 407-20	33
1374	Current advances in the functional studies of fatty acids and fatty acid-derived lipids in. 2016 , 5, e1184814	3
1373	Reflections on the role of senescence during development and aging. 2016 , 598, 40-9	13
1372	Cellular Senescence and Vascular Disease: Novel Routes to Better Understanding and Therapy. 2016 , 32, 612-23	47
1371	Mammalian telomeres and their partnership with lamins. 2016 , 7, 187-202	25
1370	Frailty in Pulmonary and Critical Care Medicine. 2016 , 13, 1394-404	46
1369	Ursolic acid regulates aging process through enhancing of metabolic sensor proteins level. 2016 , 82, 8-14	17
1368	Pharmacological Strategies to Retard Cardiovascular Aging. 2016 , 118, 1626-42	43
1367	Cellular Ageing and Replicative Senescence. 2016 ,	7

1366	Targeting Senescent Cells to Improve Human Health. 2016 , 313-343	
1365	Human Neural Stem Cell Aging Is Counteracted by β -Glycerylphosphorylethanolamine. 2016 , 7, 952-63	15
1364	Chromothripsis and epigenomics complete causality criteria for cannabis- and addiction-connected carcinogenicity, congenital toxicity and heritable genotoxicity. 2016 , 789, 15-25	31
1363	Telomere Shortening in Middle-Aged Men with Sleep-disordered Breathing. 2016 , 13, 1136-43	16
1362	Child Poverty and the Promise of Human Capacity: Childhood as a Foundation for Healthy Aging. 2016 , 16, S37-45	24
1361	Biochemical Basis of Sestrin Physiological Activities. 2016 , 41, 621-632	68
1360	UPS Activation in the Battle Against Aging and Aggregation-Related Diseases: An Extended Review. 2016 , 1449, 1-70	14
1359	Strategies and Challenges in Clinical Trials Targeting Human Aging. 2016 , 71, 1424-1434	80
1358	A genetic interaction between RAP1 and telomerase reveals an unanticipated role for RAP1 in telomere maintenance. 2016 , 15, 1113-1125	29
1357	Epigenetic Responses to Diet in Aging. 2016 , 213-226	
1356	Moving Geroscience Into Uncharted Waters. 2016 , 71, 1385-1387	21
1355	Systematic analysis of the gerontome reveals links between aging and age-related diseases. 2016 , 25, 4804-4818	53
1354	Aging of the immune system: Focus on inflammation and vaccination. 2016 , 46, 2286-2301	219
1353	Prevention of Chronic Conditions and Cancer. 2016 , 203-239	
1352	Emerging role of metabolic signaling in synovial joint remodeling and osteoarthritis. 2016 , 34, 2048-2058	47
1351	NADPH oxidases: key modulators in aging and age-related cardiovascular diseases?. 2016 , 130, 317-35	95
1350	Cofactor deficiency in mitochondrial diseases. 2016 , 1857, e97	
1349	The evolution of lifespan and age-dependent cancer risk. 2016 , 2, 552-560	57

1348	Flavin-sensitive variant FAD synthases underlying riboflavin responsive Multiple Acyl-CoA Dehydrogenation Deficiency. 2016 , 1857, e97	
1347	Redox mechanisms in age-related lung fibrosis. 2016 , 9, 67-76	47
1346	Microfluidic Platforms for Yeast-Based Aging Studies. 2016 , 12, 5787-5801	9
1345	Optical monitoring of retinal respiration in real time: 670 nm light increases the redox state of mitochondria. 2016 , 152, 88-93	15
1344	Age-related accrual of methylomic variability is linked to fundamental ageing mechanisms. 2016 , 17, 191	80
1343	Glutathione maintenance mitigates age-related susceptibility to redox cycling agents. 2016 , 10, 45-52	10
1342	The Chromatin Landscape of Cellular Senescence. 2016 , 32, 751-761	65
1341	Interventions for age-related diseases: Shifting the paradigm. 2016 , 160, 69-92	41
1340	Mitochondrial form, function and signalling in aging. 2016 , 473, 3421-3449	23
1339	Living Long and Well: Prospects for a Personalized Approach to the Medicine of Ageing. 2016 , 62, 409-16	10
1338	Understanding Long-Term Outcomes Following Sepsis: Implications and Challenges. 2016 , 18, 37	80
1337	Aging. 2016 , 323-343	
1336	Genomic Instability and Aging: Causes and Consequences. 2016 , 511-525	1
1335	Glial Cells in Health and Disease of the CNS. 2016 ,	6
1334	Age-Dependent Changes in the Activation and Regulation of Microglia. 2016 , 949, 205-226	35
1333	Accelerated Accumulation of Multimorbidity After Bilateral Oophorectomy: A Population-Based Cohort Study. 2016 , 91, 1577-1589	113
1332	Human blood cell levels of 5-hydroxymethylcytosine (5hmC) decline with age, partly related to acquired mutations in TET2. 2016 , 44, 1072-1084	32
1331	On the interplay between chronic pain and age with regard to neurocognitive integrity: Two interacting conditions?. 2016 , 69, 174-92	4

1330	rs2802292 polymorphism in the FOXO3A gene and exceptional longevity in two ethnically distinct cohorts. 2016 , 92, 110-114	2
1329	Optimization of Reference Genes for Normalization of Reverse Transcription Quantitative Real-Time Polymerase Chain Reaction Results in Senescence Study of Mesenchymal Stem Cells. 2016 , 25, 1355-65	13
1328	The aging population: demographics and the biology of aging. 2016 , 72, 13-8	136
1327	The aging mouth: differentiating normal aging from disease. 2016 , 72, 96-107	87
1326	Aging, inflammation, immunity and periodontal disease. 2016 , 72, 54-75	82
1325	Metabolic Control of Longevity. <i>Cell</i> , 2016 , 166, 802-821	56.2 429
1324	The insulin-like growth factor I receptor regulates glucose transport by astrocytes. 2016 , 64, 1962-71	37
1323	Mitochondria and oxidative stress in heart aging. 2016 , 38, 225-238	93
1322	Deciphering hallmark processes of aging from interaction networks. 2016 , 1860, 2706-15	7
1321	Molecular and biological hallmarks of ageing. 2016 , 103, e29-46	138
1320	Improvement of skeletal muscle performance in ageing by the metabolic modulator Trimetazidine. 2016 , 7, 449-57	31
1319	Cellular senescence and autophagy in the pathogenesis of chronic obstructive pulmonary disease (COPD) and idiopathic pulmonary fibrosis (IPF). 2016 , 54, 397-406	82
1318	Effects and mechanisms of prolongevity induced by <i>Lactobacillus gasseri</i> SBT2055 in <i>Caenorhabditis elegans</i> . 2016 , 15, 227-36	67
1317	Characterization of the direct targets of FOXO transcription factors throughout evolution. 2016 , 15, 673-85	116
1316	Microglia communication: Parallels between aging and Alzheimer's disease. 2016 , 7, 114-125	50
1315	The implications of small stem cell niche sizes and the distribution of fitness effects of new mutations in aging and tumorigenesis. 2016 , 9, 565-82	12
1314	SNEV(Prp19/PSO4) deficiency increases PUVA-induced senescence in mouse skin. 2016 , 25, 212-7	5
1313	Secreted growth differentiation factor 15 as a potential biomarker for mitochondrial dysfunctions in aging and age-related disorders. 2016 , 16 Suppl 1, 17-29	103

1312	Pax8 plays a pivotal role in regulation of cardiomyocyte growth and senescence. 2016 , 20, 644-54	7
1311	BTK Modulates p53 Activity to Enhance Apoptotic and Senescent Responses. 2016 , 76, 5405-14	37
1310	Using measures of single-cell physiology and physiological state to understand organismic aging. 2016 , 15, 4-13	8
1309	Dietary fat composition influences glomerular and proximal convoluted tubule cell structure and autophagic processes in kidneys from calorie-restricted mice. 2016 , 15, 477-87	18
1308	Developing criteria for evaluation of geroprotectors as a key stage toward translation to the clinic. 2016 , 15, 407-15	63
1307	Acute systemic DNA damage in youth does not impair immune defense with aging. 2016 , 15, 686-93	5
1306	Increased levels of hyper-stable protein aggregates in plasma of older adults. 2016 , 38, 56	9
1305	Restoring Pharmacologic Preconditioning in the Aging Heart: Role of Mitophagy/Autophagy. 2017 , 72, 489-498	11
1304	mTORC1 activation decreases autophagy in aging and idiopathic pulmonary fibrosis and contributes to apoptosis resistance in IPF fibroblasts. 2016 , 15, 1103-1112	95
1303	Influence of Ageing on Tendon Homeostasis. 2016 , 920, 247-60	20
1302	Non-transcriptional Function of FOXO1/DAF-16 Contributes to Translesion DNA Synthesis. 2016 , 36, 2755-2766	4
1301	DNA methylation and mRNA expression of developmentally important genes in bovine oocytes collected from donors of different age categories. 2016 , 83, 802-814	6
1300	Aging increases the susceptibility of hepatic inflammation, liver fibrosis and aging in response to high-fat diet in mice. 2016 , 38, 291-302	49
1299	Do DNA Double-Strand Breaks Drive Aging?. 2016 , 63, 729-38	113
1298	Selective disappearance of individuals with high levels of glycated haemoglobin in a free-living bird. 2016 , 12,	6
1297	p53 and the Carcinogenicity of Chronic Inflammation. 2016 , 6,	60
1296	Associations between long-term serum platinum and neurotoxicity and ototoxicity, endocrine gonadal function, and cardiovascular disease in testicular cancer survivors. 2016 , 34, 487.e13-487.e20	13
1295	An update on the pathophysiology of osteoarthritis. 2016 , 59, 333-339	134

1294	The reverse control of irreversible biological processes. 2016 , 8, 366-77	14
1293	Restricted diet delays accelerated ageing and genomic stress in DNA-repair-deficient mice. 2016 , 537, 427-431	149
1292	Can heavy isotopes increase lifespan? Studies of relative abundance in various organisms reveal chemical perspectives on aging. 2016 , 38, 1093-1101	7
1291	Are aberrant phase transitions a driver of cellular aging?. 2016 , 38, 959-68	160
1290	Missing heritability of complex diseases: Enlightenment by genetic variants from intermediate phenotypes. 2016 , 38, 664-73	29
1289	Slowing ageing by design: the rise of NAD and sirtuin-activating compounds. 2016 , 17, 679-690	410
1288	Microglia: Senescence Impairs Clearance of Myelin Debris. 2016 , 26, R772-5	17
1287	SIRT6 Overexpression Improves Various Aspects of Mouse Healthspan. 2017 , 72, 603-615	19
1286	Growth differentiation factor 11 (GDF11) - a promising anti-ageing factor - is highly concentrated in platelets. 2016 , 111, 434-436	19
1285	TNFA gene variants related to the inflammatory status and its association with cellular aging: From the CORDIOPREV study. 2016 , 83, 56-62	9
1284	Longitudinal imaging of the ageing mouse. 2016 , 160, 93-116	31
1283	Menopause: Genome stability as new paradigm. 2016 , 92, 15-23	43
1282	Age-Related Changes in Locomotor Performance Reveal a Similar Pattern for <i>Caenorhabditis elegans</i> , <i>Mus domesticus</i> , <i>Canis familiaris</i> , <i>Equus caballus</i> , and <i>Homo sapiens</i> . 2017 , 72, 455-463	19
1281	Autophagy Networks in Inflammation. 2016 ,	1
1280	Metabolic Influences on Risk for Tendon Disorders. 2016 ,	9
1279	Age-related epigenetic drift and phenotypic plasticity loss: implications in prevention of age-related human diseases. 2016 , 8, 1637-1651	30
1278	Proteome-wide alterations on adipose tissue from obese patients as age-, diabetes- and gender-specific hallmarks. 2016 , 6, 25756	37
1277	Combined associations of body weight and lifestyle factors with all cause and cause specific mortality in men and women: prospective cohort study. 2016 , 355, i5855	58

1276	Therapeutic Manipulation of Ageing: Repurposing Old Dogs and Discovering New Tricks. 2016 , 14, 24-31	10
1275	Somatic increase of CCT8 mimics proteostasis of human pluripotent stem cells and extends <i>C. elegans</i> lifespan. 2016 , 7, 13649	53
1274	Agonist-stimulated phosphatidylinositol-3,4,5-trisphosphate generation by scaffolded phosphoinositide kinases. 2016 , 18, 1324-1335	66
1273	Tissue damage and senescence provide critical signals for cellular reprogramming in vivo. 2016 , 354,	321
1272	AUTEN-67 (Autophagy Enhancer-67) Hampers the Progression of Neurodegenerative Symptoms in a <i>Drosophila</i> model of Huntington's Disease. 2016 , 5, 133-47	16
1271	Changes in the Lethality of Frailty Over 30 Years: Evidence From Two Cohorts of 70-Year-Olds in Gothenburg Sweden. 2017 , 72, 945-950	10
1270	Enhancer Remodeling During Early Mammalian Embryogenesis: Lessons for Somatic Reprogramming, Rejuvenation, and Aging. 2016 , 2, 263-272	
1269	Proteome-wide Changes in Protein Turnover Rates in <i>C. elegans</i> Models of Longevity and Age-Related Disease. 2016 , 16, 3041-3051	39
1268	Role of Mitochondrial Complex IV in Age-Dependent Obesity. 2016 , 16, 2991-3002	36
1267	Epigallocatechin-3-gallate prevents oxidative stress-induced cellular senescence in human mesenchymal stem cells via Nrf2. 2016 , 38, 1075-82	40
1266	A comprehensive approach to the molecular determinants of lifespan using a Boolean model of geroconversion. 2016 , 15, 1018-1026	10
1265	Early injury of the neonatal lung contributes to premature lung aging: a hypothesis. 2016 , 3, 24	13
1264	Potential therapeutic effects of the MTOR inhibitors for preventing ageing and progeria-related disorders. 2016 , 82, 1229-1244	37
1263	Shared Biologic Pathways Between Alzheimer Disease and Major Depression: A Systematic Review of MicroRNA Expression Studies. 2016 , 24, 903-12	36
1262	Ageing: progressive decline in fitness due to the rising deleteriome adjusted by genetic, environmental, and stochastic processes. 2016 , 15, 594-602	115
1261	<i>Nothobranchius furzeri</i> : A Model for Aging Research and More. 2016 , 32, 543-552	40
1260	Dynamical network model for age-related health deficits and mortality. 2016 , 93, 022309	28
1259	Role of Sirtuins in Maintenance of Genomic Stability: Relevance to Cancer and Healthy Aging. 2016 , 35, 542-575	21

1258	Age-driven developmental drift in the pathogenesis of idiopathic pulmonary fibrosis. 2016 , 48, 538-52	74
1257	Editorial overview: Social insects: aging and the re-shaping of the fecundity/longevity trade-off with sociality. 2016 , 16, vii-x	16
1256	Ultra-weak photon emission of hands in aging prediction. 2016 , 162, 529-534	10
1255	Hallmarks of progeroid syndromes: lessons from mice and reprogrammed cells. 2016 , 9, 719-35	76
1254	The Proteasome and Oxidative Stress in Alzheimer's Disease. 2016 , 25, 886-901	54
1253	Anti-Aging Strategies Based on Cellular Reprogramming. 2016 , 22, 725-738	42
1252	Absence of genomic hypomethylation or regulation of cytosine-modifying enzymes with aging in male and female mice. 2016 , 9, 30	38
1251	A diphenyl diselenide-supplemented diet and swimming exercise promote neuroprotection, reduced cell apoptosis and glial cell activation in the hypothalamus of old rats. 2016 , 82, 1-7	20
1250	Metabolic regulation of stem cell function in tissue homeostasis and organismal ageing. 2016 , 18, 823-32	150
1249	The Functional Nucleus. 2016 ,	1
1248	Epigenetic Modifications upon Senescence of Mesenchymal Stem Cells. 2016 , 2, 248-254	5
1247	Deficient Activity of the Nuclease MRE11A Induces T Cell Aging and Promotes Arthritogenic Effector Functions in Patients with Rheumatoid Arthritis. 2016 , 45, 903-916	52
1246	Discover the network underlying the connections between aging and age-related diseases. 2016 , 6, 32566	28
1245	Impaired Epidermal to Dendritic T Cell Signaling Slows Wound Repair in Aged Skin. <i>Cell</i> , 2016 , 167, 1323-38.e14	14
1244	Sirtuins. 2016 ,	
1243	Quantitative proteomic analysis of age-related subventricular zone proteins associated with neurodegenerative disease. 2016 , 6, 37443	12
1242	Immunoshescence : vieillissement « et » ou « du » système immunitaire. 2016 , 2016, 55-63	
1241	Ageing, neurodegeneration and brain rejuvenation. 2016 , 539, 180-186	499

1240	Absence of Non-histone Protein Complexes at Natural Chromosomal Pause Sites Results in Reduced Replication Pausing in Aging Yeast Cells. 2016 , 17, 1747-1754	6
1239	Biomarkers of skin aging. 2016 , 17, 433-442	22
1238	Cardioprotection and lifespan extension by the natural polyamine spermidine. 2016 , 22, 1428-1438	532
1237	Senescence Associated Heterochromatic Foci: SAHF. 2016 , 205-218	1
1236	Epigenetics and aging. 2016 , 2, e1600584	365
1235	Commentary: Life course epidemiology embraces geroscience. 2016 , 45, 1015-1019	4
1234	Replication-Independent Histone Variant H3.3 Controls Animal Lifespan through the Regulation of Pro-longevity Transcriptional Programs. 2016 , 17, 987-996	41
1233	Influence of DNA extraction methods on relative telomere length measurements and its impact on epidemiological studies. 2016 , 6, 25398	32
1232	HIV and aging. 2016 , 53, 61-68	128
1231	The Utility of Preoperative Frailty Assessment. 2016 , 4, 1	1
1230	Characterization of mammary epithelial stem/progenitor cells and their changes with aging in common marmosets. 2016 , 6, 32190	9
1229	AMP-activated Protein Kinase. 2016 ,	7
1228	AMPK as a Pro-longevity Target. 2016 , 107, 227-256	24
1227	Nutrigenomics and Nutrigenetics: The Basis of Molecular Nutrition. 2016 , 21-29	1
1226	Induction of renal senescence marker protein-30 (SMP30) expression by testosterone and its contribution to urinary calcium absorption in male rats. 2016 , 6, 32085	9
1225	Reduced mitochondrial mass and function add to age-related susceptibility toward diet-induced fatty liver in C57BL/6J mice. 2016 , 4, e12988	22
1224	The Evolution of Epigenetics: From Prokaryotes to Humans and Its Biological Consequences. 2016 , 8, 25-36	32
1223	Interaction of mouse splenocytes and macrophages with bacterial strains in vitro: the effect of age in the immune response. 2016 , 7, 275-87	6

1222	Histone H3 and TORC1 prevent organelle dysfunction and cell death by promoting nuclear retention of HMGB proteins. 2016 , 9, 34	6
1221	The influence of pro-longevity gene Gclc overexpression on the age-dependent changes in Drosophila transcriptome and biological functions. 2016 , 17, 1046	14
1220	Towards a multidimensional healthy ageing phenotype. 2016 , 19, 418-426	6
1219	HIV and ageing: improving quantity and quality of life. 2016 , 11, 527-536	80
1218	From paediatrics to geriatrics: a life course perspective on the MRC National Survey of Health and Development. 2016 , 31, 1069-1079	8
1217	Effects of senescent lens epithelial cells on the severity of age-related cortical cataract in humans: A case-control study. 2016 , 95, e3869	20
1216	Profiling IgG N-glycans as potential biomarker of chronological and biological ages: A community-based study in a Han Chinese population. 2016 , 95, e4112	68
1215	Pharmaceutical inhibition of mTOR in the common marmoset: effect of rapamycin on regulators of proteostasis in a non-human primate. 2016 , 6, 31793	21
1214	Genome engineering: Drosophila melanogaster and beyond. 2016 , 5, 233-67	27
1213	Phenotypic and functional changes in dermal primary fibroblasts isolated from intrinsically aged human skin. 2016 , 25, 113-9	26
1212	Modifiers of Neural Stem Cells and Aging: Pulling the Trigger of a Neurogenic Decline. 2016 , 2, 273-281	1
1211	Weight Loss Upregulates the Small GTPase DIRAS3 in Human White Adipose Progenitor Cells, Which Negatively Regulates Adipogenesis and Activates Autophagy via Akt-mTOR Inhibition. 2016 , 6, 149-161	31
1210	On cognitive ecology and the environmental factors that promote Alzheimer disease: lessons from Octodon degus (Rodentia: Octodontidae). 2016 , 49, 10	18
1209	Energetic interventions for healthspan and resiliency with aging. 2016 , 86, 73-83	29
1208	The Metabolic Impact on Histone Acetylation and Transcription in Ageing. 2016 , 41, 700-711	103
1207	Genetic control of circadian rhythms and aging. 2016 , 52, 343-361	8
1206	Inside out: the role of nucleocytoplasmic transport in ALS and FTL. 2016 , 132, 159-173	81
1205	NF- κ B signaling as a driver of ageing. 2016 , 326, 133-74	45

1204	Tissue-specific down-regulation of S-adenosyl-homocysteine via suppression of dAhcyL1/dAhcyL2 extends health span and life span in <i>Drosophila</i> . 2016 , 30, 1409-22	51
1203	Nutritional Signaling and Aging. 2016 , 105-120	
1202	The protective role of protein L-isoaspartyl (D-aspartate) O-methyltransferase for maintenance of mitochondrial morphology in A549 cell. 2016 , 42, 245-62	2
1201	Telomere Attrition: A Window Into Common Mental Disorders and Cellular Aging. 2016 , 173, 556-8	2
1200	From DNA damage to functional changes of the trabecular meshwork in aging and glaucoma. 2016 , 29, 26-41	67
1199	[Wound healing in the elderly]. 2016 , 67, 112-6	2
1198	The Aging Epigenome. 2016 , 62, 728-44	238
1197	Diastolic dysfunction and cardiac troponin I decrease in aging hearts. 2016 , 603, 20-8	14
1196	Effects of low-dose ibuprofen supplementation and resistance training on bone and muscle in postmenopausal women: A randomized controlled trial. 2016 , 5, 96-103	16
1195	Derailed Proteostasis as a Determinant of Cardiac Aging. 2016 , 32, 1166.e11-20	13
1194	Signaling Networks Determining Life Span. 2016 , 85, 35-64	109
1193	Stem Cells: A Renaissance in Human Biology Research. <i>Cell</i> , 2016 , 165, 1572-1585	56.2 67
1192	Covalently bonded single-molecule junctions with stable and reversible photoswitched conductivity. 2016 , 352, 1443-5	529
1191	Epigenetic perturbations in aging stem cells. 2016 , 27, 396-406	6
1190	Vitamin C alleviates aging defects in a stem cell model for Werner syndrome. 2016 , 7, 478-88	43
1189	Animal and human models to understand ageing. 2016 , 93, 18-27	27
1188	Pervasive Effects of Aging on Gene Expression in Wild Wolves. 2016 , 33, 1967-78	17
1187	MMP-25 Metalloprotease Regulates Innate Immune Response through NF- κ B Signaling. 2016 , 197, 296-302	24

1186	iPSCs: On the Road to Reprogramming Aging. 2016 , 22, 713-724	36
1185	Double strand breaks may be a missing link between entropy and aging. 2016 , 157, 1-6	9
1184	Developmental aspects of a life course approach to healthy ageing. 2016 , 594, 2147-60	34
1183	Non-canonical roles for caveolin in regulation of membrane repair and mitochondria: implications for stress adaptation with age. 2016 , 594, 4581-9	5
1182	A synopsis on aging-Theories, mechanisms and future prospects. 2016 , 29, 90-112	165
1181	Mitophagy plays a central role in mitochondrial ageing. 2016 , 27, 381-95	83
1180	Understanding why we age and how: Evolutionary biology meets different model organisms and multi-level omics: Meeting report on "Comparative Biology of Aging," Roscoff, October 12-16, 2015. 2016 , 38, 494-7	1
1179	Physiological geroscience: targeting function to increase healthspan and achieve optimal longevity. 2016 , 594, 2001-24	131
1178	Alterations of Mitochondrial DNA Copy Number and Telomere Length With Early Adversity and Psychopathology. 2016 , 79, 78-86	151
1177	Long-term Neuroglial Cocultures as a Brain Aging Model: Hallmarks of Senescence, MicroRNA Expression Profiles, and Comparison With In Vivo Models. 2016 , 71, 50-60	31
1176	Early-Life Intelligence Predicts Midlife Biological Age. 2016 , 71, 968-977	25
1175	Orchestrating the network of molecular pathways affecting aging: Role of nonselective autophagy and mitophagy. 2016 , 153, 30-40	37
1174	Nuclear hormone receptor DHR96 mediates the resistance to xenobiotics but not the increased lifespan of insulin-mutant <i>Drosophila</i> . 2016 , 113, 1321-6	34
1173	Stem Cell Therapies for Cardiac Regeneration: Current BurdenFuture Directions. 2016 , 191-196	
1172	Autophagy and Metabolism. 2016 , 473-509	
1171	Various Mechanistic Pathways Representing the Aging Process Are Altered in COPD. 2016 , 149, 53-61	60
1170	Are invertebrates relevant models in ageing research? Focus on the effects of rapamycin on TOR. 2016 , 153, 22-9	5
1169	Glycomics and glycoproteomics focused on aging and age-related diseases--Glycans as a potential biomarker for physiological alterations. 2016 , 1860, 1608-14	60

1168	Oxidative Stress Promotes Peroxiredoxin Hyperoxidation and Attenuates Pro-survival Signaling in Aging Chondrocytes. 2016 , 291, 6641-54	62
1167	Genomic stability during cellular reprogramming: Mission impossible?. 2016 , 788, 12-6	12
1166	Systemic DNA damage responses in aging and diseases. 2016 , 37-38, 26-35	70
1165	Mode-specific physical activity and leukocyte telomere length among U.S. adults: Implications of running on cellular aging. 2016 , 85, 17-19	21
1164	SIRT6 safeguards human mesenchymal stem cells from oxidative stress by coactivating NRF2. 2016 , 26, 190-205	192
1163	Targeted Therapy for Idiopathic Pulmonary Fibrosis: Where To Now?. 2016 , 76, 291-300	31
1162	Sirtuins, Healthspan, and Longevity in Mammals. 2016 , 83-132	5
1161	Integrative Genomics of Aging. 2016 , 263-285	5
1160	Comparative Biology of Aging. 2016 , 305-324	2
1159	Calculating the Rate of Senescence From Mortality Data: An Analysis of Data From the ERA-EDTA Registry. 2016 , 71, 468-74	4
1158	Measuring Biological Age via Metabonomics: The Metabolic Age Score. 2016 , 15, 400-10	58
1157	Site-specific proteasome phosphorylation controls cell proliferation and tumorigenesis. 2016 , 18, 202-12	99
1156	Nutrients, foods, dietary patterns and telomere length: Update of epidemiological studies and randomized trials. 2016 , 65, 406-15	77
1155	Reciprocal Changes in Phosphoenolpyruvate Carboxykinase and Pyruvate Kinase with Age Are a Determinant of Aging in <i>Caenorhabditis elegans</i> . 2016 , 291, 1307-19	17
1154	Time-dependent dysregulation of autophagy: Implications in aging and mitochondrial homeostasis in the kidney proximal tubule. 2016 , 12, 801-13	64
1153	AMPK/Snf1 signaling regulates histone acetylation: Impact on gene expression and epigenetic functions. 2016 , 28, 887-95	59
1152	Early-life stress and reproductive cost: A two-hit developmental model of accelerated aging?. 2016 , 90, 41-7	38
1151	The Emergence of Geroscience as an Interdisciplinary Approach to the Enhancement of Health Span and Life Span. 2016 , 6, a025163	66

1150	Secondary Progression in Multiple Sclerosis: Neuronal Exhaustion or Distinct Pathology?. 2016 , 39, 325-339	58
1149	Structure and Function of the Mitochondrial Ribosome. 2016 , 85, 103-32	134
1148	Mitochondrial reactive oxygen species: Do they extend or shorten animal lifespan?. 2016 , 1857, 1116-1126	69
1147	Lifelong leukocyte telomere dynamics and survival in a free-living mammal. 2016 , 15, 140-8	83
1146	Long live FOXO: unraveling the role of FOXO proteins in aging and longevity. 2016 , 15, 196-207	374
1145	Mechanisms of Lung Fibrosis Resolution. 2016 , 186, 1066-77	70
1144	Effect of hyperglycemia on the number of CD117 progenitor cells and their differentiation toward endothelial progenitor cells in young and old ages. 2016 , 159, 31-36	3
1143	Pathology of Mouse Models of Accelerated Aging. 2016 , 53, 366-89	46
1142	The Neuronal Kinesin UNC-104/KIF1A Is a Key Regulator of Synaptic Aging and Insulin Signaling-Regulated Memory. 2016 , 26, 605-15	31
1141	Effects of aging on the male reproductive system. 2016 , 33, 441-54	90
1140	Stem Cells and Aging. 2016 , 776-784	
1139	18EGlycyrrhetic Acid Proteasome Activator Decelerates Aging and Alzheimer's Disease Progression in <i>Caenorhabditis elegans</i> and Neuronal Cultures. 2016 , 25, 855-869	40
1138	Senescence associated secretory phenotype profile from primary lung mice fibroblasts depends on the senescence induction stimuli. 2016 , 38, 26	56
1137	Mitochondrial Dysfunction Meets Senescence. 2016 , 41, 207-209	25
1136	Antisenescence effect of mouse embryonic stem cell conditioned medium through a PDGF/FGF pathway. 2016 , 30, 1276-86	19
1135	Reorganization of chromosome architecture in replicative cellular senescence. 2016 , 2, e1500882	82
1134	Inorganic Phosphate Activates the AKT/mTORC1 Pathway and Shortens the Life Span of an <i>l</i> kloto-Deficient Model. 2016 , 27, 2810-24	29
1133	Understanding the physiology of the ageing individual: computational modelling of changes in metabolism and endurance. 2016 , 6, 20150079	27

1132	Mitochondria-Targeting Ceria Nanoparticles as Antioxidants for Alzheimer's Disease. 2016 , 10, 2860-70	334
1131	Genome-Wide DNA Methylation Changes During Aging. 2016 , 127-144	0
1130	Cellular senescence and tumor promotion: Is aging the key?. 2016 , 1865, 155-67	48
1129	Hair follicle aging is driven by transepidermal elimination of stem cells via COL17A1 proteolysis. 2016 , 351, aad4395	173
1128	Rice bran extract improves mitochondrial dysfunction in brains of aged NMRI mice. 2016 , 19, 1-10	40
1127	Molecular insights into the premature aging disease progeria. 2016 , 145, 401-17	74
1126	Age-associated changes in DNA methylation across multiple tissues in an inbred mouse model. 2016 , 154, 20-3	27
1125	Cell-Nonautonomous Mechanisms Underlying Cellular and Organismal Aging. 2016 , 321, 259-97	14
1124	Coenzyme Q biosynthesis and its role in the respiratory chain structure. 2016 , 1857, 1073-1078	67
1123	The Role of Osteocytes in Age-Related Bone Loss. 2016 , 14, 16-25	85
1122	The novel tumor suppressor AIRAPL regulates IGF1R proteostasis. 2016 , 15, 873-4	1
1121	Longitudinal RNA-Seq Analysis of Vertebrate Aging Identifies Mitochondrial Complex I as a Small-Molecule-Sensitive Modifier of Lifespan. 2016 , 2, 122-32	88
1120	Human mesenchymal stromal cells reduce influenza A H5N1-associated acute lung injury in vitro and in vivo. 2016 , 113, 3621-6	123
1119	Change in Epigenome-Wide DNA Methylation Over 9 Years and Subsequent Mortality: Results From the InCHIANTI Study. 2016 , 71, 1029-35	28
1118	Relative Leukocyte Telomere Length, Hematological Parameters and Anemia - Data from the Berlin Aging Study II (BASE-II). 2016 , 62, 330-6	14
1117	Periodic acid-Schiff granules in the brain of aged mice: From amyloid aggregates to degenerative structures containing neo-epitopes. 2016 , 27, 42-55	19
1116	The short-lived African turquoise killifish: an emerging experimental model for ageing. 2016 , 9, 115-29	64
1115	Regenerative decline of stem cells in sarcopenia. 2016 , 50, 109-17	67

1114	iPSCs-based anti-aging therapies: Recent discoveries and future challenges. 2016 , 27, 37-41	4
1113	Shortened telomere length in patients with depression: A meta-analytic study. 2016 , 76, 84-93	61
1112	Effects of aerobic training on markers of autophagy in the elderly. 2016 , 38, 33	32
1111	Histone Modifications in Ageing and Lifespan Regulation. 2016 , 2, 26-35	22
1110	Deconstructing Dietary Restriction: A Case for Systems Approaches in Aging. 2016 , 23, 395-6	2
1109	MitoAge: a database for comparative analysis of mitochondrial DNA, with a special focus on animal longevity. 2016 , 44, D1262-5	19
1108	[Harmonisation of databases for the study of frailty in older people: INTAFRADE study]. 2016 , 51, 29-36	
1107	Nuclear DNA damage signalling to mitochondria in ageing. 2016 , 17, 308-21	222
1106	The safety of treatment options for elderly people with acute myeloid leukemia. 2016 , 15, 635-45	2
1105	Absence of AMPK β accelerates cellular senescence via p16 induction in mouse embryonic fibroblasts. 2016 , 71, 72-80	15
1104	Mitonuclear communication in homeostasis and stress. 2016 , 17, 213-26	378
1103	Oxidative stress, autophagy, epigenetic changes and regulation by miRNAs as potential therapeutic targets in osteoarthritis. 2016 , 108, 1-10	82
1102	The redundancy of the mammalian heterochromatic compartment. 2016 , 37, 1-8	20
1101	Loss of the proteostasis factor AIRAPL causes myeloid transformation by deregulating IGF-1 signaling. 2016 , 22, 91-6	24
1100	Controlled DNA double-strand break induction in mice reveals post-damage transcriptome stability. 2016 , 44, e64	32
1099	Epigenetic targets in cancer and aging: dietary and therapeutic interventions. 2016 , 20, 689-703	15
1098	Systematic review of the association between chronic social stress and telomere length: A life course perspective. 2016 , 26, 37-52	81
1097	Nrf2 signaling and redox homeostasis in the aging heart: A potential target to prevent cardiovascular diseases?. 2016 , 26, 81-95	62

1096	Plasmon-Enhanced Autofluorescence Imaging of Organelles in Label-Free Cells by Deep-Ultraviolet Excitation. 2016 , 88, 1407-11	10
1095	The impact of low-protein high-carbohydrate diets on aging and lifespan. 2016 , 73, 1237-52	136
1094	Autophagy maintains stemness by preventing senescence. 2016 , 529, 37-42	745
1093	Understanding age-related diseases: report of the 2015 Ageing Summit. 2016 , 47, 5-9	1
1092	Highly Charged Proteins: The Achilles' Heel of Aging Proteomes. 2016 , 24, 329-36	44
1091	Unraveling the links between cancer and aging. 2016 , 37, 107	21
1090	Osteoarthritis year in review 2015: biology. 2016 , 24, 21-6	96
1089	The Biology of Aging: Citizen Scientists and Their Pets as a Bridge Between Research on Model Organisms and Human Subjects. 2016 , 53, 291-8	37
1088	What might retrotransposons teach us about aging?. 2016 , 62, 277-82	23
1087	Ageing and the telomere connection: An intimate relationship with inflammation. 2016 , 25, 55-69	212
1086	Chronic alpha-linolenic acid treatment alleviates age-associated neuropathology: Roles of PERK/eIF2 β signaling pathway. 2016 , 57, 314-325	20
1085	Emotions and family interactions in childhood: Associations with leukocyte telomere length emotions, family interactions, and telomere length. 2016 , 63, 343-50	27
1084	Genome Integrity in Aging: Human Syndromes, Mouse Models, and Therapeutic Options. 2016 , 56, 427-45	68
1083	Alzheimer's as a Systems-Level Disease Involving the Interplay of Multiple Cellular Networks. 2016 , 1303, 3-48	24
1082	Hutchinson-Gilford progeria syndrome as a model for vascular aging. 2016 , 17, 129-45	20
1081	Using Medicine in Science Fiction. 2016 ,	1
1080	Navigating yeast genome maintenance with functional genomics. 2016 , 15, 119-29	3
1079	Long-Term Dietary Alpha-Linolenic Acid Supplement Alleviates Cognitive Impairment Correlate with Activating Hippocampal CREB Signaling in Natural Aging Rats. 2016 , 53, 4772-86	23

1078	Partial sleep deprivation activates the DNA damage response (DDR) and the senescence-associated secretory phenotype (SASP) in aged adult humans. 2016 , 51, 223-229	48
1077	The Biology of Immortality. 2016 , 281-320	
1076	Aging and Vision. 2016 , 854, 393-9	7
1075	DNA Damage and Repair in Vascular Disease. 2016 , 78, 45-66	36
1074	Unabridged Analysis of Human Histone H3 by Differential Top-Down Mass Spectrometry Reveals Hypermethylated Proteoforms from MMSET/NSD2 Overexpression. 2016 , 15, 776-90	49
1073	Long noncoding RNAs in diseases of aging. 2016 , 1859, 209-21	58
1072	Age-related changes in basal substrate oxidation and visceral adiposity and their association with metabolic syndrome. 2016 , 55, 1755-67	15
1071	Mechanisms and consequences of aneuploidy and chromosome instability in the aging brain. 2017 , 161, 19-36	33
1070	Back and forth in time: Directing age in iPSC-derived lineages. 2017 , 1656, 14-26	23
1069	Food supplementation with rice bran enzymatic extract prevents vascular apoptosis and atherogenesis in ApoE ^{-/-} mice. 2017 , 56, 225-236	11
1068	Life stress, glucocorticoid signaling, and the aging epigenome: Implications for aging-related diseases. 2017 , 74, 356-365	67
1067	DNA damage in protective and adverse inflammatory responses: Friend of foe?. 2017 , 165, 47-53	7
1066	Aging in Rothmund-Thomson syndrome and related RECQL4 genetic disorders. 2017 , 33, 30-35	27
1065	Anesthetic Isoflurane Induces DNA Damage Through Oxidative Stress and p53 Pathway. 2017 , 54, 3591-3605	34
1064	Bloom's syndrome: Why not premature aging?: A comparison of the BLM and WRN helicases. 2017 , 33, 36-51	43
1063	Ataxia-telangiectasia (A-T): An emerging dimension of premature ageing. 2017 , 33, 76-88	62
1062	Assessment of health status by molecular measures in adults ranging from middle-aged to old: Ready for clinical use?. 2017 , 87, 175-181	8
1061	Genome instability: Linking ageing and brain degeneration. 2017 , 161, 4-18	11

1060	Circulating markers of ageing and allostatic load: A slow train coming. 2017 , 7, 49-54	31
1059	Caloric restriction improves health and survival of rhesus monkeys. 2017 , 8, 14063	424
1058	Osteoarthritis: toward a comprehensive understanding of pathological mechanism. 2017 , 5, 16044	422
1057	Environmental Chemicals and Aging. 2017 , 4, 38-43	4
1056	Role of Mitochondrial Metabolism in the Control of Early Lineage Progression and Aging Phenotypes in Adult Hippocampal Neurogenesis. 2017 , 93, 560-573.e6	137
1055	Increased Arf/p53 activity in stem cells, aging and cancer. 2017 , 16, 219-225	31
1054	Idiopathic pulmonary fibrosis. 2017 , 148, 170-175	15
1053	Metabolic effects of fasting on human and mouse blood in vivo. 2017 , 13, 567-578	51
1052	MicroRNAs and the metabolic hallmarks of aging. 2017 , 455, 131-147	37
1051	Mechanisms of oncogene-induced genomic instability. 2017 , 225, 49-57	9
1050	How Can Aging Be Thought of as Anything Other Than a Disease?. 2017 , 233-240	2
1049	Environmental stresses induce transgenerationally inheritable survival advantages via germline-to-soma communication in <i>Caenorhabditis elegans</i> . 2017 , 8, 14031	95
1048	TP53 Modulates Oxidative Stress in Gata1 Erythroid Cells. 2017 , 8, 360-372	3
1047	Antagonistic pleiotropy and mutation accumulation influence human senescence and disease. 2017 , 1, 55	48
1046	Visualization of aging-associated chromatin alterations with an engineered TALE system. 2017 , 27, 483-504	36
1045	Changing mutational and adaptive landscapes and the genesis of cancer. 2017 , 1867, 84-94	16
1044	Pleiotropic responses to methionine restriction. 2017 , 94, 83-88	61
1043	Exposure to Concentrated Ambient PM2.5 Shortens Lifespan and Induces Inflammation-Associated Signaling and Oxidative Stress in <i>Drosophila</i> . 2017 , 156, 199-207	22

1042	Small heat shock proteins in ageing and age-related diseases. 2017 , 22, 481-492	20
1041	Modest overexpression of FOXO maintains cardiac proteostasis and ameliorates age-associated functional decline. 2017 , 16, 93-103	24
1040	Nicotinamide Ameliorates Disease Phenotypes in a Human iPSC Model of Age-Related Macular Degeneration. 2017 , 20, 635-647.e7	90
1039	Impact of genetic background and experimental reproducibility on identifying chemical compounds with robust longevity effects. 2017 , 8, 14256	68
1038	A novel single-cell method provides direct evidence of persistent DNA damage in senescent cells and aged mammalian tissues. 2017 , 16, 422-427	41
1037	Clonal reversal of ageing-associated stem cell lineage bias via a pluripotent intermediate. 2017 , 8, 14533	26
1036	Effects of testosterone administration on liver structure and function in aging rats. 2017 , 20, 134-137	4
1035	An integrative metabolomics and transcriptomics study to identify metabolic alterations in aged skin of humans in vivo. 2017 , 18, 169	27
1034	Inactivation of Lsd1 triggers senescence in trophoblast stem cells by induction of Sirt4. 2017 , 8, e2631	22
1033	Oxidative status predicts quality in human mesenchymal stem cells. 2017 , 8, 3	21
1032	Mitophagy in neurodegeneration and aging. 2017 , 109, 202-209	179
1031	Will you still need me (Ca, TnT, and DHPR), will you still cleave me (calpain), when I'm 64?. 2017 , 16, 202-204	11
1030	Biomechanical Strain Exacerbates Inflammation on a Progeria-on-a-Chip Model. 2017 , 13, 1603737	48
1029	Nutrient sensing pathways as therapeutic targets for healthy ageing. 2017 , 21, 371-380	24
1028	Ageing and ocular surface immunity. 2017 , 101, 1-5	22
1027	Mitochondria. 2017 ,	1
1026	A review of supervised machine learning applied to ageing research. 2017 , 18, 171-188	62
1025	The Role of the Immune System in Metabolic Health and Disease. 2017 , 25, 506-521	134

1024	miR-377 induces senescence in human skin fibroblasts by targeting DNA methyltransferase 1. 2017 , 8, e2663	29
1023	¹ H NMR-based metabolic investigation of the effect of Lentinula edodes-derived polysaccharides on aged mice. 2017 , 41, e12371	5
1022	MECHANISMS IN ENDOCRINOLOGY: Aging and anti-aging: a Combo-Endocrinology overview. 2017 , 176, R283-R308	55
1021	Assessing Mitochondrial Selective Autophagy in the Nematode <i>Caenorhabditis elegans</i> . 2017 , 1567, 349-361	8
1020	Association Between Telomere Length and Risk of Cancer and Non-Neoplastic Diseases: A Mendelian Randomization Study. 2017 , 3, 636-651	236
1019	Age-associated molecular changes are deleterious and may modulate life span through diet. 2017 , 3, e1601833	9
1018	ZRF1 is a novel S6 kinase substrate that drives the senescence programme. 2017 , 36, 736-750	20
1017	Tat-Mediated Induction of miRs-34a & -138 Promotes Astrocytic Activation via Downregulation of SIRT1: Implications for Aging in HAND. 2017 , 12, 420-432	19
1016	Autophagy maintains the metabolism and function of young and old stem cells. 2017 , 543, 205-210	438
1015	Cytosolic proteostasis through importing of misfolded proteins into mitochondria. 2017 , 543, 443-446	244
1014	Muscle Stem Cells: A Model System for Adult Stem Cell Biology. 2017 , 1556, 3-19	6
1013	Maintained memory in aging is associated with young epigenetic age. 2017 , 55, 167-171	39
1012	Aging and caloric restriction impact adipose tissue, adiponectin, and circulating lipids. 2017 , 16, 497-507	59
1011	Targeting mitochondrial dysfunction can restore antiviral activity of exhausted HBV-specific CD8 T cells in chronic hepatitis B. 2017 , 23, 327-336	162
1010	Mitochondria, Cybrids, Aging, and Alzheimer's Disease. 2017 , 146, 259-302	55
1009	The concept of ageing in evolutionary algorithms: Discussion and inspirations for human ageing. 2017 , 163, 8-14	2
1008	Physiological links of circadian clock and biological clock of aging. 2017 , 8, 477-488	31
1007	Mitochondrial Dynamics: Coupling Mitochondrial Fitness with Healthy Aging. 2017 , 23, 201-215	159

1006	Physiology: An atypical switch for metabolism and ageing. 2017 , 542, 299-300	0
1005	The Hippocampus from Cells to Systems. 2017 ,	7
1004	Differential decrease in soluble and DNA-bound telomerase in senescent human fibroblasts. 2017 , 18, 525-533	7
1003	Telomere-driven diseases and telomere-targeting therapies. 2017 , 216, 875-887	136
1002	SIRT3 deficiency promotes lung fibrosis by augmenting alveolar epithelial cell mitochondrial DNA damage and apoptosis. 2017 , 31, 2520-2532	67
1001	Jujube (<i>Ziziphus Jujuba</i> Mill.) fruit feeding extends lifespan and increases tolerance to environmental stresses by regulating aging-associated gene expression in <i>Drosophila</i> . 2017 , 18, 263-273	11
1000	The Indirubin Derivative 6-Bromoindirubin-3'-Oxime Activates Proteostatic Modules, Reprograms Cellular Bioenergetic Pathways, and Exerts Antiaging Effects. 2017 , 27, 1027-1047	19
999	Epigenomics of human CD8 T cell differentiation and aging. 2017 , 2,	110
998	Mutation and catastrophe in the aging genome. 2017 , 94, 34-40	16
997	Mitochondria and Epigenetics - Crosstalk in Homeostasis and Stress. 2017 , 27, 453-463	150
996	Integrin Beta 3 Regulates Cellular Senescence by Activating the TGF- β Pathway. 2017 , 18, 2480-2493	80
995	Effect of age on pro-inflammatory miRNAs contained in mesenchymal stem cell-derived extracellular vesicles. 2017 , 7, 43923	44
994	High Volume Exercise Training in Older Athletes Influences Inflammatory and Redox Responses to Acute Exercise. 2017 , 25, 559-569	3
993	Neurodegeneration Enhances the Development of Arthritis. 2017 , 198, 2394-2402	8
992	Acute exercise activates p38 MAPK and increases the expression of telomere-protective genes in cardiac muscle. 2017 , 102, 397-410	24
991	The Aging Cardiovascular System: Understanding It at the Cellular and Clinical Levels. 2017 , 69, 1952-1967	262
990	Regulation of stem cell aging by SIRT1 - Linking metabolic signaling to epigenetic modifications. 2017 , 455, 75-82	16
989	From lymphopoiesis to plasma cells differentiation, the age-related modifications of B cell compartment are influenced by "inflamm-ageing". 2017 , 36, 125-136	38

988	Alpha-Ketoglutarate Curbs Differentiation and Induces Cell Death in Mesenchymal Stromal Precursors with Mitochondrial Dysfunction. 2017 , 35, 1704-1718	15
987	Tomatidine enhances lifespan and healthspan in <i>C. elegans</i> through mitophagy induction via the SKN-1/Nrf2 pathway. 2017 , 7, 46208	78
986	Long-term calorie restriction in humans is not associated with indices of delayed immunologic aging: A descriptive study. 2017 , 4, 147-156	14
985	DNA damage and senescence in osteoprogenitors expressing <i>Osx1</i> may cause their decrease with age. 2017 , 16, 693-703	103
984	Multi-tissue DNA methylation age predictor in mouse. 2017 , 18, 68	220
983	Cancer and Aging. 2017 , 1-10	1
982	The impact of cellular senescence in skin ageing: A notion of mosaic and therapeutic strategies. 2017 , 142, 1-12	44
981	The Ubiquitin Ligase CHIP Integrates Proteostasis and Aging by Regulation of Insulin Receptor Turnover. <i>Cell</i> , 2017 , 169, 470-482.e13	56.2 68
980	Trehalose supplementation reduces hepatic endoplasmic reticulum stress and inflammatory signaling in old mice. 2017 , 45, 15-23	29
979	Brain-predicted age in Down syndrome is associated with beta amyloid deposition and cognitive decline. 2017 , 56, 41-49	68
978	Impact of early personal-history characteristics on the Pace of Aging: implications for clinical trials of therapies to slow aging and extend healthspan. 2017 , 16, 644-651	60
977	Cycling our way to fit fat. 2017 , 5, e13247	17
976	Alterations of the translation apparatus during aging and stress response. 2017 , 168, 30-36	81
975	Aging does not alter tendon mechanical properties during homeostasis, but does impair flexor tendon healing. 2017 , 35, 2716-2724	29
974	Lung Homeostasis: Influence of Age, Microbes, and the Immune System. 2017 , 46, 549-561	123
973	Epigenetic aging signatures in mice livers are slowed by dwarfism, calorie restriction and rapamycin treatment. 2017 , 18, 57	176
972	Dysregulated Nox4 ubiquitination contributes to redox imbalance and age-related severity of acute lung injury. 2017 , 312, L297-L308	23
971	The Intersection of Aging Biology and the Pathobiology of Lung Diseases: A Joint NHLBI/NIA Workshop. 2017 , 72, 1492-1500	40

970	The energy sensing LKB1-AMPK pathway regulates IGF1 secretion and consequent activation of the IGF1R-PKB pathway in primary hepatocytes. 2017 , 284, 2096-2109	8
969	The epigenetic landscape of age-related diseases: the geroscience perspective. 2017 , 18, 549-559	46
968	Functional relevance of miRNAs in premature ageing. 2017 , 168, 10-19	7
967	Frailty and anesthesia. 2017 , 30, 409-417	34
966	Influence of anaerobic and aerobic exercise on age-related pathways in skeletal muscle. 2017 , 37, 39-52	11
965	Age-Related Changes in Plasma Extracellular Vesicle Characteristics and Internalization by Leukocytes. 2017 , 7, 1342	129
964	A randomized controlled trial to establish effects of short-term rapamycin treatment in 24 middle-aged companion dogs. 2017 , 39, 117-127	94
963	Proteomic analysis of aged microglia: shifts in transcription, bioenergetics, and nutrient response. 2017 , 14, 96	51
962	Ageing: Fewer Obstacles to DNA Replication?. 2017 , 3, 387-390	
961	Report: NIA Workshop on Measures of Physiologic Resiliencies in Human Aging. 2017 , 72, 980-990	62
960	Basic science and pathogenesis of ageing with HIV: potential mechanisms and biomarkers. 2017 , 31 Suppl 2, S105-S119	59
959	Geriatric syndromes: new frontiers in HIV and sarcopenia. 2017 , 31 Suppl 2, S137-S146	34
958	Oncological challenges for an ageing population living with HIV. 2017 , 31 Suppl 2, S185-S189	1
957	Ageing, exceptional longevity and comparisons of the Hannum and Horvath epigenetic clocks. 2017 , 9, 689-700	46
956	The role of matrix metalloproteinases in aging: Tissue remodeling and beyond. 2017 , 1864, 2015-2025	94
955	Rejuvenation of Cardiac Tissue Developed from Reprogrammed Aged Somatic Cells. 2017 , 20, 389-400	7
954	Long Live Partial Reprogramming. 2017 , 120, 1381-1383	1
953	The effects of aging in the hippocampus and cognitive decline. 2017 , 79, 66-86	186

952	Changing Direction: From Therapeutic Telomerase Inhibition to Activation?. 2017 , 120, 1393-1395	4
951	Chronicle of a Neuronal Death Foretold: Preventing Aging by Keeping MGRN1 at the Nucleus. 2017 , 66, 301-303	
950	Proteostatic and Metabolic Control of Stemness. 2017 , 20, 593-608	79
949	Integrins in senescence and aging. 2017 , 16, 909-910	10
948	Bone Marrow-Derived Mesenchymal Stem Cells From Patients With Systemic Lupus Erythematosus Have a Senescence-Associated Secretory Phenotype Mediated by a Mitochondrial Antiviral Signaling Protein-Interferon- β Feedback Loop. 2017 , 69, 1623-1635	39
947	Isolation and identification of senescent renal tubular epithelial cells using immunomagnetic beads based on DcR2. 2017 , 95, 116-127	11
946	Allogeneic Human Mesenchymal Stem Cell Infusions for Aging Frailty. 2017 , 72, 1505-1512	42
945	Age-related reduction in the expression of FOXO transcription factors and correlations with intervertebral disc degeneration. 2017 , 35, 2682-2691	35
944	Membrane Lipid Replacement for chronic illnesses, aging and cancer using oral glycerolphospholipid formulations with fructooligosaccharides to restore phospholipid function in cellular membranes, organelles, cells and tissues. 2017 , 1859, 1704-1724	34
943	Endoplasmic reticulum proteostasis impairment in aging. 2017 , 16, 615-623	115
942	Age-dependent alterations in osteoblast and osteoclast activity in human cancellous bone. 2017 , 21, 2773-2781	27
941	Starvation signals in yeast are integrated to coordinate metabolic reprogramming and stress response to ensure longevity. 2017 , 63, 839-843	54
940	Splicing regulatory factors, ageing and age-related disease. 2017 , 36, 165-170	30
939	Mitophagy and age-related pathologies: Development of new therapeutics by targeting mitochondrial turnover. 2017 , 178, 157-174	75
938	Left ventricle transcriptomic analysis reveals connective tissue accumulation associates with initial age-dependent decline in V o2peak from its lifetime apex. 2017 , 49, 53-66	1
937	Redox changes in the brains of reproductive female rats during aging. 2017 , 87, 8-15	3
936	The histone methyltransferases Set5 and Set1 have overlapping functions in gene silencing and telomere maintenance. 2017 , 12, 93-104	17
935	Intranasal Cerebrolysin Attenuates Learning and Memory Impairments in D-galactose-Induced Senescence in Mice. 2017 , 87, 16-22	52

934	The UPR: Sensor and Coordinator of Organismal Homeostasis. 2017 , 66, 761-771	138
933	Assessing Health Span in <i>Caenorhabditis elegans</i> : Lessons From Short-Lived Mutants. 2017 , 72, 473-480	26
932	The role of epigenetics in renal ageing. 2017 , 13, 471-482	62
931	Immune and myodegenerative pathomechanisms in inclusion body myositis. 2017 , 4, 422-445	27
930	The emerging role of Wnt signaling dysregulation in the understanding and modification of age-associated diseases. 2017 , 37, 135-145	31
929	Mesenchymal Stem Cell-Based Cartilage Regeneration Approach and Cell Senescence: Can We Manipulate Cell Aging and Function?. 2017 , 23, 529-539	55
928	Similarities and interactions between the ageing process and high chronic intake of added sugars. 2017 , 30, 191-207	9
927	YAP/TAZ link cell mechanics to Notch signalling to control epidermal stem cell fate. 2017 , 8, 15206	141
926	Autophagy in the presynaptic compartment in health and disease. 2017 , 216, 1895-1906	108
925	Synergistic Effect of Rapamycin and Metformin Against Age-Dependent Oxidative Stress in Rat Erythrocytes. 2017 , 20, 420-429	14
924	Optomechanical measurement of the role of lamins in whole cell deformability. 2017 , 10, 1657-1664	3
923	Synthetic mRNA devices that detect endogenous proteins and distinguish mammalian cells. 2017 , 45, e117	27
922	Anticancer effects of the microbiome and its products. 2017 , 15, 465-478	257
921	A reduction in DNA damage in neural tissue and peripheral blood of old mice treated with caffeine. 2017 , 80, 621-629	6
920	The evolutionary trade-off between stem cell niche size, aging, and tumorigenesis. 2017 , 10, 590-602	8
919	Stem Cell Applications in Rejuvenation. 2017 , 289-319	
918	Exploring a Role for Regulatory miRNAs In Wound Healing during Ageing: Involvement of miR-200c in wound repair. 2017 , 7, 3257	30
917	How to get the most bang for your buck: the evolution and physiology of nutrition-dependent resource allocation strategies. 2017 , 284,	13

916	Pancreas, Kidney and Skin Regeneration. 2017,	1
915	State transitions: a major mortality risk for seasonal species. 2017, 20, 883-891	9
914	Impaired activity of adherens junctions contributes to endothelial dilator dysfunction in ageing rat arteries. 2017, 595, 5143-5158	12
913	Cell Division Machinery and Disease. 2017,	2
912	Conserved and species-specific molecular denominators in mammalian skeletal muscle aging. 2017, 3, 8	12
911	Reactive Oxygen Species Signaling from the Perspective of the Stem Cell. 2017, 1-23	
910	GOLDEN anniversary of the acute respiratory distress syndrome: still much work to do!. 2017, 23, 4-9	23
909	Molecular and physiological manifestations and measurement of aging in humans. 2017, 16, 624-633	188
908	Yeast models of Parkinson's disease-associated molecular pathologies. 2017, 44, 74-83	37
907	The NAD ⁺ /PARP1/SIRT1 Axis in Aging. 2017, 20, 244-247	49
906	A sensitive mass spectrometry platform identifies metabolic changes of life history traits in <i>C. elegans</i> . 2017, 7, 2408	41
905	Baicalein Exerts Beneficial Effects in d-Galactose-Induced Aging Rats Through Attenuation of Inflammation and Metabolic Dysfunction. 2017, 20, 506-516	20
904	Evolutionary perspectives on ageing. 2017, 70, 99-107	12
903	Sex-specific lifespan and its evolution in nematodes. 2017, 70, 122-129	5
902	Multi-omics analysis identifies ATF4 as a key regulator of the mitochondrial stress response in mammals. 2017, 216, 2027-2045	349
901	Current Perspective in the Discovery of Anti-aging Agents from Natural Products. 2017, 7, 335-404	49
900	References. 141-170	
899	Persistent mTORC1 signaling in cell senescence results from defects in amino acid and growth factor sensing. 2017, 216, 1949-1957	58

898	Convergent adaptation of cellular machineries in the evolution of large body masses and long life spans. 2017 , 18, 485-497	5
897	Mitotic Dysfunction Associated with Aging Hallmarks. 2017 , 1002, 153-188	21
896	Cross-sectional relations of whole-blood miRNA expression levels and hand grip strength in a community sample. 2017 , 16, 888-894	12
895	Biology of Vascular Smooth Muscle: Vasoconstriction and Dilatation. 2017 ,	2
894	Lung cancer in patients with idiopathic pulmonary fibrosis. 2017 , 45, 1-10	82
893	A Class of Reactive Acyl-CoA Species Reveals the Non-enzymatic Origins of Protein Acylation. 2017 , 25, 823-837.e8	130
892	MOAG-4 promotes the aggregation of β -synuclein by competing with self-protective electrostatic interactions. 2017 , 292, 8269-8278	21
891	Apigenin suppresses the senescence-associated secretory phenotype and paracrine effects on breast cancer cells. 2017 , 39, 161-173	70
890	Polyglutamine-Expanded Huntingtin Exacerbates Age-Related Disruption of Nuclear Integrity and Nucleocytoplasmic Transport. 2017 , 94, 48-57.e4	129
889	Huntington's Disease: Nuclear Gatekeepers Under Attack. 2017 , 94, 1-4	18
888	Targeted Apoptosis of Senescent Cells Restores Tissue Homeostasis in Response to Chemotoxicity and Aging. <i>Cell</i> , 2017 , 169, 132-147.e16	56.2 657
887	Sab mediates mitochondrial dysfunction involved in imatinib mesylate-induced cardiotoxicity. 2017 , 382, 24-35	18
886	Age-dependent obesity and mitochondrial dysfunction. 2017 , 6, 161-166	9
885	Loss Induces Senescence and Stat3 Activation Coinciding with Tubulointerstitial Fibrosis. 2017 , 37,	20
884	Age-associated DNA methylation changes in naive CD4 T cells suggest an evolving autoimmune epigenotype in aging T cells. 2017 , 9, 429-445	30
883	Increased genome instability is not accompanied by sensitivity to DNA damaging agents in aged yeast cells. 2017 , 54, 1-7	12
882	IRE1 signaling exacerbates Alzheimer's disease pathogenesis. 2017 , 134, 489-506	93
881	Skin Aging. 2017 , 711-728	

880	Chemical screening identifies ATM as a target for alleviating senescence. 2017 , 13, 616-623	85
879	Patients with gout have short telomeres compared with healthy participants: association of telomere length with flare frequency and cardiovascular disease in gout. 2017 , 76, 1313-1319	10
878	Interrelations Between Mitochondrial DNA Copy Number and Inflammation in Older Adults. 2017 , 72, 937-944	15
877	Caloric Restriction Extends Yeast Chronological Life Span by Optimizing the Snf1 (AMPK) Signaling Pathway. 2017 , 37,	28
876	Role of p16 and BMI-1 in oxidative stress-induced premature senescence in human dental pulp stem cells. 2017 , 12, 690-698	34
875	Epigallocatechin gallate reverses cTnI-low expression-induced age-related heart diastolic dysfunction through histone acetylation modification. 2017 , 21, 2481-2490	18
874	Sirtuin 7 is decreased in pulmonary fibrosis and regulates the fibrotic phenotype of lung fibroblasts. 2017 , 312, L945-L958	36
873	Cytokine-induced senescence for cancer surveillance. 2017 , 36, 357-365	7
872	Novel insights into systemic autoimmune rheumatic diseases using shared molecular signatures and an integrative analysis. 2017 , 12, 433-440	9
871	From One Syndrome to Many: Incorporating Geriatric Consultation Into HIV Care. 2017 , 65, 501-506	37
870	Mitochondrial-Targeted Catalase: Extended Longevity and the Roles in Various Disease Models. 2017 , 146, 203-241	37
869	Neuroprotective Functions for the Histone Deacetylase SIRT6. 2017 , 18, 3052-3062	86
868	Sirtuins and DNA damage repair: SIRT7 comes to play. 2017 , 8, 107-115	51
867	Physiological Aging: Links Among Adipose Tissue Dysfunction, Diabetes, and Frailty. 2017 , 32, 9-19	103
866	The association between post-traumatic stress disorder and shorter telomere length: A systematic review and meta-analysis. 2017 , 218, 322-326	39
865	Idiopathic pulmonary fibrosis. 2017 , 148, 170-175	2
864	Urinary DcR2 is a novel biomarker for tubulointerstitial injury in patients with diabetic nephropathy. 2017 , 313, F273-F281	10
863	Dietary restriction protects from age-associated DNA methylation and induces epigenetic reprogramming of lipid metabolism. 2017 , 18, 56	117

862	Anti-ageing properties of Khelma Longevity treatment of human fibroblasts increases proteasome levels and decreases the levels of oxidized proteins. 2017 , 38, 36-39	1
861	Aging metabolism: intervention strategies. 2017 , 8, 571-576	1
860	Mitochondrial Sirtuins and Molecular Mechanisms of Aging. 2017 , 23, 320-331	154
859	Modelling the molecular mechanisms of aging. 2017 , 37,	51
858	Changes in the mitochondrial function and in the efficiency of energy transfer pathways during cardiomyocyte aging. 2017 , 432, 141-158	15
857	Retinal, NPY- and 5ht- inputs to the aged suprachiasmatic nucleus in common marmosets (<i>Callithrix jacchus</i>). 2017 , 121, 54-59	2
856	Ochratoxin A induced premature senescence in human renal proximal tubular cells. 2017 , 382, 75-83	12
855	Time-dependent genetic effects on gene expression implicate aging processes. 2017 , 27, 545-552	18
854	Blue light-induced oxidative stress in live skin. 2017 , 108, 300-310	75
853	MicroRNAs miR-203-3p, miR-664-3p and miR-708-5p are associated with median strain lifespan in mice. 2017 , 7, 44620	13
852	Mitochondria in Cell Senescence: Is Mitophagy the Weakest Link?. 2017 , 21, 7-13	162
851	Successful and Maladaptive T Cell Aging. 2017 , 46, 364-378	155
850	Extended Multiplexing of Tandem Mass Tags (TMT) Labeling Reveals Age and High Fat Diet Specific Proteome Changes in Mouse Epididymal Adipose Tissue. 2017 , 16, 873-890	122
849	Rejuvenation by Partial Reprogramming of the Epigenome. 2017 , 20, 146-150	8
848	Ageing: Lessons from <i>C. elegans</i> . 2017 ,	8
847	TERT promoter mutations in telomere biology. 2017 , 771, 15-31	93
846	A Homeostatic Shift Facilitates Endoplasmic Reticulum Proteostasis through Transcriptional Integration of Proteostatic Stress Response Pathways. 2017 , 37,	30
845	Happily (n)ever after: Aging in the context of oxidative stress, proteostasis loss and cellular senescence. 2017 , 11, 482-501	165

844	Keeping up with the Red Queen: the pace of aging as an adaptation. 2017 , 18, 693-709	16
843	Glucose Transporter 1-Dependent Glycolysis Is Increased during Aging-Related Lung Fibrosis, and Phloretin Inhibits Lung Fibrosis. 2017 , 56, 521-531	58
842	Life history evolution, reproduction, and the origins of sex-dependent aging and longevity. 2017 , 1389, 92-107	54
841	Dissecting the molecular mechanisms that impair stress granule formation in aging cells. 2017 , 1864, 475-486	24
840	Using comparative biology to understand how aging affects mitochondrial metabolism. 2017 , 455, 54-61	9
839	Metabolic roles of poly(ADP-ribose) polymerases. 2017 , 63, 135-143	33
838	The Fountain of Youth by Targeting Senescent Cells?. 2017 , 23, 6-17	76
837	HIV-associated cellular senescence: A contributor to accelerated aging. 2017 , 36, 117-124	40
836	Proteasome activation enhances stemness and lifespan of human mesenchymal stem cells. 2017 , 103, 226-235	25
835	2,3-Dehydrosilybin A/B as a pro-longevity and anti-aggregation compound. 2017 , 103, 256-267	23
834	Transcriptional profiling reveals protective mechanisms in brains of long-lived mice. 2017 , 52, 23-31	12
833	The decay of Redox-stress Response Capacity is a substantive characteristic of aging: Revising the redox theory of aging. 2017 , 11, 365-374	50
832	Aging: Somatic Mutations, Epigenetic Drift and Gene Dosage Imbalance. 2017 , 27, 299-310	20
831	Nup100 regulates replicative life span by mediating the nuclear export of specific tRNAs. 2017 , 23, 365-377	15
830	Intraneuronal protein aggregation as a trigger for inflammation and neurodegeneration in the aging brain. 2017 , 31, 5-10	63
829	Mitochondria in complex psychiatric disorders: Lessons from mouse models of 22q11.2 deletion syndrome: Hemizygous deletion of several mitochondrial genes in the 22q11.2 genomic region can lead to symptoms associated with neuropsychiatric disease. 2017 , 39, 1600177	19
828	Mitochondrial activity and dynamics changes regarding metabolism in ageing and obesity. 2017 , 162, 108-121	42
827	Mitochondrial Longevity Pathways. 2017 , 83-108	2

826	Nervous System Ageing. 2017 , 163-189	2
825	Aging modifies daily variation of antioxidant enzymes and oxidative status in the hippocampus. 2017 , 88, 42-50	19
824	Senescence in COPD and Its Comorbidities. 2017 , 79, 517-539	116
823	The addition of a developmental factor, , to already long-lived worms increases lifespan and healthspan. 2017 , 6, 1796-1801	1
822	Circadian Dysregulation and Melatonin Rhythm Suppression in the Context of Aging. 2017 , 1-25	0
821	Pulmonary Diseases, a Matter of Time. 2017 , 27-63	
820	Intercellular competition and the inevitability of multicellular aging. 2017 , 114, 12982-12987	39
819	Developing Circadian Therapeutics Against Age-Related Metabolic Decline. 2017 , 235-268	
818	Circadian Clocks and mTOR Signaling. 2017 , 193-210	
817	DLX3 promotes bone marrow mesenchymal stem cell proliferation through H19/miR-675 axis. 2017 , 131, 2721-2735	14
816	Molecular Chaperones in Neurodegenerative Diseases: A Short Review. 2017 , 987, 219-231	7
815	Circadian Control of Mitochondrial Dynamics and Its Implication in Aging. 2017 , 147-161	1
814	High Plasticity of New Granule Cells in the Aging Hippocampus. 2017 , 21, 1129-1139	52
813	Multigenerational silencing dynamics control cell aging. 2017 , 114, 11253-11258	43
812	Formal Models of Biological Systems. 2017 , 988, 325-338	2
811	Genome instability and aging: Cause or effect?. 2017 , 1, 5-11	14
810	Alternative splicing in aging and age-related diseases. 2017 , 1, 32-40	21
809	Age-associated dysregulation of protein metabolism in the mammalian oocyte. 2017 , 16, 1381-1393	51

808	Blood to Blood: A New Therapeutic Opportunity for Age-Related Diseases. 2017 , 449-470		1
807	Epigenetic Drift Is a Determinant of Mammalian Lifespan. 2017 , 20, 430-436		29
806	Gene therapy with the TRF1 telomere gene rescues decreased TRF1 levels with aging and prolongs mouse health span. 2017 , 16, 1353-1368		16
805	Vitamin D deficiency accelerates ageing and age-related diseases: a novel hypothesis. 2017 , 595, 6825-6836		63
804	Vascular Smooth Muscle Cells and Arterial Stiffening: Relevance in Development, Aging, and Disease. 2017 , 97, 1555-1617		272
803	Single-Cell Analysis of Human Pancreas Reveals Transcriptional Signatures of Aging and Somatic Mutation Patterns. <i>Cell</i> , 2017 , 171, 321-330.e14	56.2	263
802	HDAC6 Suppresses Age-Dependent Ectopic Fat Accumulation by Maintaining the Proteostasis of PLIN2 in <i>Drosophila</i> . 2017 , 43, 99-111.e5		16
801	Sirt1 and Parp1 as epigenome safeguards and microRNAs as SASP-associated signals, in cellular senescence and aging. 2017 , 40, 120-141		33
800	Increased age-adjusted hazard of death associated with a common single nucleotide polymorphism of the human RAD52 gene in a cardiovascular cohort. 2017 , 167, 56-63		
799	Translational geroscience: A new paradigm for 21 century medicine. 2017 , 1, 1-4		26
798	Role of connexin 43 in different forms of intercellular communication - gap junctions, extracellular vesicles and tunnelling nanotubes. 2017 , 130, 3619-3630		92
797	Estimating influenza vaccine effectiveness: Evolution of methods to better understand effects of confounding in older adults. 2017 , 35, 6269-6274		19
796	Physiology of ageing of the musculoskeletal system. 2017 , 31, 203-217		29
795	Reactive oxygen species as signaling molecules in the development of lung fibrosis. 2017 , 190, 61-68		52
794	The role of declining adaptive homeostasis in ageing. 2017 , 595, 7275-7309		85
793	A Genetic Tool to Track Protein Aggregates and Control Prion Inheritance. <i>Cell</i> , 2017 , 171, 966-979.e18	56.2	35
792	Exercise and bone health across the lifespan. 2017 , 18, 931-946		89
791	Pachymic acid promotes induction of autophagy related to IGF-1 signaling pathway in WI-38 cells. 2017 , 36, 82-87		11

790	Ernährungskonzepte für den alternden Menschen. 2017 , 13, 433-441	
789	Polymorphonuclear Neutrophil Functions are Differentially Altered in Amnesic Mild Cognitive Impairment and Mild Alzheimer's Disease Patients. 2017 , 60, 23-42	19
788	Predicting Age Using Neuroimaging: Innovative Brain Ageing Biomarkers. 2017 , 40, 681-690	282
787	Allogeneic Mesenchymal Stem Cells Ameliorate Aging Frailty: A Phase II Randomized, Double-Blind, Placebo-Controlled Clinical Trial. 2017 , 72, 1513-1522	67
786	Stem Cell Transplantation for Frailty. 2017 , 72, 1503-1504	10
785	Hormones in Clock Regulation During Ageing. 2017 , 243-265	1
784	Subunit-dependent oxidative stress sensitivity of LRRC8 volume-regulated anion channels. 2017 , 595, 6719-6733	36
783	RAP80 binds p32 to preserve the functional integrity of mitochondria. 2017 , 492, 441-446	3
782	Regulation of Stem Cell Aging by Metabolism and Epigenetics. 2017 , 26, 460-474	121
781	Nutrition, epigenetics and health through life. 2017 , 42, 254-265	5
780	The system capacity view of aging and longevity. 2017 , 5, 251-259	2
779	Genomic and functional integrity of the hematopoietic system requires tolerance of oxidative DNA lesions. 2017 , 130, 1523-1534	21
778	Aging and immortality in unicellular species. 2017 , 167, 5-15	14
777	miRNAs in stem cell aging and age-related disease. 2017 , 168, 20-29	24
776	Unmasking Transcriptional Heterogeneity in Senescent Cells. 2017 , 27, 2652-2660.e4	296
775	Dynamic proteome profiling of individual proteins in human skeletal muscle after a high-fat diet and resistance exercise. 2017 , 31, 5478-5494	31
774	The relationship between reproductive and biochemical ageing at the time of the menopausal transition. 2017 , 98, 162-168	0
773	Progressing neurobiological strategies against proteostasis failure: Challenges in neurodegeneration. 2017 , 159, 1-38	21

772	Physiological and Pathological Functions of Mitochondrial Proteases. 2017 , 3-25	3
771	Human Immunodeficiency Virus and Aging in the Era of Effective Antiretroviral Therapy. 2017 , 31, 791-810	31
770	6-bromo-indirubin-3'-oxime (6BIO), a Glycogen synthase kinase-3 inhibitor, activates cytoprotective cellular modules and suppresses cellular senescence-mediated biomolecular damage in human fibroblasts. 2017 , 7, 11713	24
769	A proteomic atlas of insulin signalling reveals tissue-specific mechanisms of longevity assurance. 2017 , 13, 939	30
768	A progressive reduction in autophagic capacity contributes to induction of replicative senescence in Hs68 cells. 2017 , 92, 18-25	5
767	Tissue-, sex-, and age-specific DNA methylation of rat glucocorticoid receptor gene promoter and insulin-like growth factor 2 imprinting control region. 2017 , 49, 690-702	9
766	Autophagy, its mechanisms and regulation: Implications in neurodegenerative diseases. 2017 , 40, 64-74	61
765	Rapamycin treatment attenuates age-associated periodontitis in mice. 2017 , 39, 457-463	41
764	Health relevance of the modification of low grade inflammation in ageing (inflammageing) and the role of nutrition. 2017 , 40, 95-119	221
763	NAD in Aging: Molecular Mechanisms and Translational Implications. 2017 , 23, 899-916	217
762	Cell reprogramming: Therapeutic potential and the promise of rejuvenation for the aging brain. 2017 , 40, 168-181	18
761	Determinants and Regulation of Protein Turnover in Yeast. 2017 , 5, 283-294.e5	53
760	The chromatin accessibility signature of human immune aging stems from CD8 T cells. 2017 , 214, 3123-3144	86
759	Caloric Restriction Promotes Structural and Metabolic Changes in the Skin. 2017 , 20, 2678-2692	24
758	4D Analysis of Facial Ageing Using Dynamic Features. 2017 , 112, 790-799	3
757	Chaperone-directed ubiquitylation maintains proteostasis at the expense of longevity. 2017 , 6, e1371403	
756	Lung Diseases of the Elderly: Cellular Mechanisms. 2017 , 33, 473-490	12
755	Improving mitochondrial function significantly reduces metabolic, visual, motor and cognitive decline in aged <i>Drosophila melanogaster</i> . 2017 , 60, 34-43	25

754	IPF lung fibroblasts have a senescent phenotype. 2017 , 313, L1164-L1173	131
753	Nucleolar expansion and elevated protein translation in premature aging. 2017 , 8, 328	120
752	Vascular aging: Molecular mechanisms and potential treatments for vascular rejuvenation. 2017 , 37, 94-116	43
751	Molecular Mechanisms Determining Lifespan in Short- and Long-Lived Species. 2017 , 28, 722-734	45
750	Promoting Drp1-mediated mitochondrial fission in midlife prolongs healthy lifespan of <i>Drosophila melanogaster</i> . 2017 , 8, 448	131
749	Aging: rewiring the circadian clock. 2017 , 24, 687-688	3
748	Inflammaging and the Lung. 2017 , 33, 459-471	25
747	Benzoate and Sorbate Salts: A Systematic Review of the Potential Hazards of These Invaluable Preservatives and the Expanding Spectrum of Clinical Uses for Sodium Benzoate. 2017 , 16, 868-880	59
746	The emerging role of alternative splicing in senescence and aging. 2017 , 16, 918-933	83
745	Inflammation and premature aging in advanced chronic kidney disease. 2017 , 313, F938-F950	121
744	Evaluating aged mice in three touchscreen tests that differ in visual demands: Impaired cognitive function and impaired visual abilities. 2017 , 333, 142-149	8
743	The Biology of Aging and Cancer: Frailty, Inflammation, and Immunity. 2017 , 23, 201-205	43
742	Human T cell immunosenescence and inflammation in aging. 2017 , 102, 977-988	138
741	The Changing Face of Aging: Highly Sulfated Glycosaminoglycans Induce Amyloid Formation in a Lattice Corneal Dystrophy Model Protein. 2017 , 429, 2755-2764	5
740	Obstructive Sleep Apnea and Hallmarks of Aging. 2017 , 23, 675-692	35
739	Immunosenescence Induced by Plasma from Individuals with Obesity Caused Cell Signaling Dysfunction and Inflammation. 2017 , 25, 1523-1531	11
738	Resilient protein co-expression network in male orbitofrontal cortex layer 2/3 during human aging. 2017 , 58, 180-190	5
737	A Tissue Engineered Model of Aging: Interdependence and Cooperative Effects in Failing Tissues. 2017 , 7, 5051	11

736	Sustainable Nutrition in a Changing World. 2017,	4
735	A novel method to quantify base substitution mutations at the 10 per bp level in DNA samples. 2017, 403, 152-158	6
734	Eco-Aging: stem cells and microbes are controlled by aging antagonist FoxO. 2017, 38, 181-187	16
733	NAD Deficits in Age-Related Diseases and Cancer. 2017, 3, 593-610	29
732	Redox homeostasis and age-related deficits in neuromuscular integrity and function. 2017, 8, 881-906	29
731 ¹	Innate immune sensing of cytosolic chromatin fragments through cGAS promotes senescence. 2017, 19, 1061-1070	434
730	Fish oil diet may reduce inflammatory levels in the liver of middle-aged rats. 2017, 7, 6241	11
729	Hearing and vision difficulty and sequential treatment among older adults in India. 2022, 12,	0
728	Oxidative degradation of dihydrofolate reductase increases CD38-mediated ferroptosis susceptibility. 2022, 13,	1
727	Ageing and Low-Level Chronic Inflammation: The Role of the Biological Clock. 2022, 11, 2228	1
726	Expression of retrotransposons contributes to aging in <i>Drosophila</i> .	0
725	A focused natural compound screen reveals senolytic and senostatic effects of <i>Isatis tinctoria</i> . 1-8	0
724	Characterization and Anti-Aging Activity of Polysaccharides from <i>Akebia trifoliata</i> Fruit Separated by an Aqueous Two-Phase System.	0
723	Effects of lifespan-extending interventions on cognitive healthspan. 1-83	0
722	Age-induced prostaglandin E2 impairs mitochondrial fitness and increases mortality to influenza infection. 2022, 13,	0
721	On the Potential Role of the Antioxidant Couple Vitamin E/Selenium Taken by the Oral Route in Skin and Hair Health. 2022, 11, 2270	0
720	Two-CyDye-Based 2D-DIGE Analysis of Aged Human Muscle Biopsy Specimens. 2023, 265-289	1
719	Assessment of Aging-Related Function Variations of P-gp Transporter in Old-Elderly Chinese CHF Patients Based on Modeling and Simulation.	0

718	A potential role of autophagy-mediated vascular senescence in the pathophysiology of HFpEF. 13,	0
717	Targeting NRF2/KEAP1 axis by Omega-3 fatty acids and their derivatives: Emerging opportunities against aging and diseases. 2022,	2
716	Ginsenoside Rb2 suppresses cellular senescence of human dermal fibroblasts by inducing autophagy. 2022,	0
715	Adenovirus-mediated SIRT1 protects cochlear stria marginal cells in a D-gal-induced senescent model in vitro.	0
714	4-phenylbutyric acid Identity crisis; can it act as a translation inhibitor?.	0
713	Integrative analysis of GWAS and co-localisation data suggests novel genes associated with age-related multimorbidity.	0
712	Early cardiac aging linked to impaired stress-resistance and transcriptional control of stress response, quality control and mitochondrial pathways. 2022, 112011	0
711	Quantum Healthy Longevity for healthy people, planet, and growth. 2022,	0
710	The anabolic applications of androgens in older adults with functional limitations.	0
709	Mycobacterium tuberculosis: Implications of Ageing on Infection and Maintaining Protection in the Elderly. 2022, 10, 1892	1
708	Triterpenoids and Polysaccharides from Ganoderma lucidum Improve the Histomorphology and Function of Testes in Middle-Aged Male Mice by Alleviating Oxidative Stress and Cellular Apoptosis. 2022, 14, 4733	0
707	Gut microbial DNA and immune checkpoint gene Vsig4/CRIg are key antagonistic players in healthy aging and age-associated development of hypertension and diabetes. 13,	0
706	A Glb1-2A-mCherry reporter monitors systemic aging and predicts lifespan in middle-aged mice. 2022, 13,	0
705	2-Butoxytetrahydrofuran and Palmitic Acid from Holothuria scabra Enhance C. elegans Lifespan and Healthspan via DAF-16/FOXO and SKN-1/NRF2 Signaling Pathways. 2022, 15, 1374	1
704	Healthspan versus lifespan: new medicines to close the gap.	1
703	HU308 Mitigates Osteoarthritis by Stimulating Sox9-Related Networks of Carbohydrate Metabolism.	0
702	Stratification of companion animal life stages from electronic medical record diagnosis data.	0
701	Krill oil protects dopaminergic neurons from age-related degeneration through temporal transcriptome rewiring and suppression of several hallmarks of aging.	0

700	Gene Therapy Strategies Targeting Aging-Related Diseases. 2022 , 0	0
699	Which Factors Influence Healthy Aging? A Lesson from the Longevity Village of Bama in China. 2022 , 0	0
698	Immunosenescence and ACE2 protein expression: Association with SARS-CoV-2 in older adults. 2022 , 6, 008-017	0
697	Rapamycin not dietary restriction improves resilience against pathogens: a meta-analysis.	0
696	Persistent organic pollutant exposure contributes to Black/White differences in leukocyte telomere length in the National Health and Nutrition Examination Survey. 2022 , 12,	0
695	Post-Translational Modifications Evoked by Reactive Carbonyl Species in Ultraviolet-A-Exposed Skin: Implication in Fibroblast Senescence and Skin Photoaging. 2022 , 11, 2281	1
694	Familial aggregation of the aging process: biological age measured in young adult offspring as a predictor of parental mortality.	0
693	Public Health Need, Molecular Targets, and Opportunities for the Accelerated Development of Function-Promoting Therapies: Proceedings of a National Institute on Aging Workshop.	0
692	Longueur des télomères : de la sénescence cellulaire aux trajectoires du vieillissement humain. 2022 , N° 3, 269-280	0
691	Analysis of Nanomedicine Efficacy for Osteoarthritis. 2200085	0
690	Effects of dietary restriction on genome stability are sex and feeding regimen dependent.	0
689	Comparison of senescence phenotype of short- and long- term cultured rat mesenchymal stem cells in vitro. 2022 , 94,	0
688	Mitochondrial function and immune response-regulating factor-encoding gene promoters. 2023 , 15-31	0
687	Eucommia ulmoides male flower as a remarkable edible floral resource exerts lifespan/healthspan-promoting effects on Caenorhabditis elegans.	0
686	Alternative role of glucagon-like Peptide-1 receptor agonists in neurodegenerative diseases. 2023 , 938, 175439	1
685	Targeting AMPK signaling by polyphenols: a novel strategy for tackling aging.	1
684	Sedentary behavior and the biological hallmarks of aging. 2023 , 83, 101807	0
683	Major depression and the biological hallmarks of aging. 2023 , 83, 101805	0

- 682 Molecular Mechanisms of Vascular Health: Insights From Vascular Aging and Calcification. **2023**, 43, 15-29 2
- 681 Age differences in factors affecting fear of falling among community-dwelling older adults: A cross-sectional study. **2023**, 49, 74-80 0
- 680 Translational research into frailty from bench to bedside: Salivary biomarkers for inflammaging. **2023**, 171, 112040 0
- 679 Dietary selenium excess affected spermatogenesis via DNA damage and telomere-related cell senescence and apoptosis in mice. **2023**, 171, 113556 0
- 678 Emerging role of aging in the progression of NAFLD to HCC. **2023**, 84, 101833 2
- 677 Positive social factors prospectively predict younger epigenetic age: Findings from the Health and Retirement Study. **2023**, 148, 105988 0
- 676 The role of cytokines/chemokines in an aging skin immune microenvironment. **2023**, 210, 111761 0
- 675 Structure characteristics of low molecular weight pectic polysaccharide and its anti-aging capability by modulating the intestinal homeostasis. **2023**, 303, 120467 0
- 674 Age, sex, and frailty modify the expression of common reference genes in skeletal muscle from ageing mice. **2023**, 210, 111762 0
- 673 BMF-AS1/BMF Promotes Diabetic Vascular Calcification and Aging both In Vitro and In Vivo. **2022**, 0 0
- 672 Phosphatidylethanolamine N-methyltransferase: from Functions to Diseases. **2022**, 0 0
- 671 Be Role of Senescence in NASH-Related HCC. **2022**, 0 0
- 670 Resolving Geroplasticity to the Balance of Rejuvenins and Geriatrins. **2022**, 13, 1664 0
- 669 Aging. **2022**, 0 0
- 668 Ageing and Vasoreactivity. **2022**, 401-424 0
- 667 FDA Should Re-evaluate All mRNA Vaccines and Revoke Their Use Authorizations (The Short Version).. **2022**, 4, 16-66 0
- 666 Inflammaging: Implications in Sarcopenia. **2022**, 23, 15039 0
- 665 Circadian clock gene Clock-Bmal1 regulates cellular senescence in Chronic obstructive pulmonary disease. **2022**, 22, 0 0

- 664 Insight into the Molecular Signature of Skeletal Muscle Characterizing Lifelong Football Players. **2022**, 19, 15835 ○
- 663 Special Issue: Circadian Rhythms and Age Related Disorder: How Does Aging Impact Mammalian Circadian Organization?. 2200219 1
- 662 Organotypic cultures as aging associated disease models. **2022**, 14, 9338-9383 1
- 661 Inhibition of glutaminolysis restores mitochondrial function in senescent stem cells. **2022**, 41, 111744 ○
- 660 Predicting Lifespan-Extending Chemical Compounds with Machine Learning and Biologically Interpretable Features. ○
- 659 Antioxidant Supplementation in Oxidative Stress-Related Diseases: What Have We Learned from Studies on Alpha-Tocopherol?. **2022**, 11, 2322 2
- 658 A macrophage subpopulation promotes airineme-mediated intercellular communication in a Matrix Metalloproteinase-9 dependent manner. ○
- 657 Nicotinamide Mononucleotide Supplementation Improves Mitochondrial Dysfunction and Rescues Cellular Senescence by NAD⁺/Sirt3 Pathway in Mesenchymal Stem Cells. **2022**, 23, 14739 ○
- 656 Therapeutic Potential of Extracellular Vesicles in Aging and Age-Related Diseases. **2022**, 23, 14632 1
- 655 Selen in der Anti-Aging-Medizin. **2022**, 20, 24-28 ○
- 654 Smurfness-based two-phase model of ageing helps deconvolve the ageing transcriptional signature. ○
- 653 Frailty in older people living with HIV: current status and clinical management. **2022**, 22, ○
- 652 Preconditioned Mesenchymal Stromal Cell-Derived Extracellular Vesicles (EVs) Counteract Inflammaging. **2022**, 11, 3695 ○
- 651 Modulatory effect of exogenous Coenzyme Q10 on redox and inflammatory biomarkers during aging in rats. ○
- 650 Aberrant expression and localization of the RAP1 shelterin protein contribute to age-related phenotypes. **2022**, 18, e1010506 ○
- 649 An evaluation of aging measures: from biomarkers to clocks. ○
- 648 Age acquired skewed X chromosome inactivation is associated with adverse health outcomes in humans. 11, ○
- 647 The Prevalence of Mycobacterium tuberculosis Infection Among Cancer Patients Receiving Chemotherapy in a Tertiary Care Center. **2022**, ○

646	Modelling premature cardiac aging with induced pluripotent stem cells from a hutchinson-gilford Progeria Syndrome patient. 13,	0
645	GPCR signaling regulates severe stress-induced organismic death in <i>Caenorhabditis elegans</i> .	0
644	Reducing mitochondrial ribosomal gene expression does not alter metabolic health or lifespan in mice.	0
643	Systematic Approach Identifies Multiple Transcription Factor Perturbations That Rejuvenate Replicatively Aged Human Skin Fibroblasts.	0
642	Integration of mass-spectrometry-based global metabolomics and proteomics analysis to characterise different senescence induced molecular sub-phenotypes.	0
641	Aging and Mesenchymal Stem Cells: Basic Concepts, Challenges and Strategies. 2022 , 11, 1678	0
640	Muscle Delivery of Mitochondria-Targeted Drugs for the Treatment of Sarcopenia: Rationale and Perspectives. 2022 , 14, 2588	1
639	Investigating the Impact of a Curse: Diseases, Population Isolation, Evolution and the Mother's Curse. 2022 , 13, 2151	0
638	Mechanisms Underlying Brain Aging Under Normal and Pathological Conditions.	1
637	MicroRNA Expression Variation in Female Dog (<i>Canis familiaris</i>) Reproductive Organs with Age and Presence of Uteropathy. 2022 , 12, 3352	1
636	UKRI MRC National Musculoskeletal Ageing Network: strategic prioritisation to increase healthy lifespan and minimise physical frailty. 2022 , 17,	0
635	Genetic Enhancement: a New Avenue to Combat Aging-related Diseases.	0
634	Exosomal miR-767 from senescent endothelial-derived accelerating skin fibroblasts aging via inhibiting TAB1.	0
633	Stress und Alterung. 2022 , 20, 20-23	0
632	Development and Validation of an Age-Related Gastric Cancer-Specific Immune Index. Volume 15, 6393-6407	0
631	dNAGLU Extends Life Span and Promotes Fitness and Stress Resistance in <i>Drosophila</i> . 2022 , 23, 14433	0
630	Stem Cell-Based Therapeutic Strategies for Premature Ovarian Insufficiency and Infertility: A Focus on Aging. 2022 , 11, 3713	1
629	Women at heart: Introducing gender cardio-oncology. 9,	0

628	Identification and Functional Analysis of Long Non-Coding RNA (lncRNA) in Response to Seed Aging in Rice. 2022 , 11, 3223	0
627	Healthy microbiome is mere idea or a sound concept?. 2022 , 71, 719-738	1
626	Retinal age gap as a predictive biomarker of stroke risk. 2022 , 20,	0
625	Measurements of damage and repair of binary health attributes in aging mice and humans reveal that robustness and resilience decrease with age, operate over broad timescales, and are affected differently by interventions. 11,	0
624	Aging Fibroblasts Adversely Affect Extracellular Matrix Formation via the Senescent Humoral Factor Ependymin-Related Protein 1. 2022 , 11, 3749	0
623	SIRT6 is a key regulator of mitochondrial function in the brain.	0
622	Inhaled particulate accumulation with age impairs immune function and architecture in human lung lymph nodes.	0
621	Aging and Wound Healing of the Skin: A Review of Clinical and Pathophysiological Hallmarks. 2022 , 12, 2142	0
620	Proteostasis in aging-associated ocular disease. 2022 , 88, 101157	2
619	Longitudinal Association of Telomere Dynamics with Obesity and Metabolic Disorders in Young Children. 2022 , 14, 5191	0
618	Cardiac metabolism in HFpEF: from fuel to signalling.	1
617	Research progress and prospect of aging mechanism and anti-aging. 2022 ,	0
616	voyAGER: free web interface for the analysis of age-related gene expression alterations in human tissues.	0
615	Role of autophagy in lung diseases and ageing. 2022 , 31, 220134	1
614	Low leukocyte mitochondrial DNA abundance drives atherosclerotic cardiovascular diseases: cohort and Mendelian randomization study.	0
613	Comprehensive Analysis of Cellular Senescence-Related Genes in Prognosis, Molecular Characterization and Immunotherapy of Hepatocellular Carcinoma. 2022 , 24,	0
612	Reprogramming of ovarian aging epigenome by resveratrol.	0
611	Associations between multiple metals exposure and biological aging: Evidence from the Dongfeng-Tongji cohort. 2022 , 160596	0

610	A molecular signature defining exercise adaptation with ageing and in vivo partial reprogramming in skeletal muscle.	1
609	Role of angiotensin II in aging. 14,	0
608	Are Skeletal Muscle Changes during Prolonged Space Flights Similar to Those Experienced by Frail and Sarcopenic Older Adults?. 2022 , 12, 2139	1
607	Senescent cells suppress macrophage-mediated corpse removal via upregulation of the CD47-QPCT/L axis. 2023 , 222,	1
606	The Anaphase-Promoting Complex/Cyclosome Is a Cellular Ageing Regulator. 2022 , 23, 15327	0
605	Transcriptional memory of dFOXO activation in youth curtails later-life mortality through chromatin remodeling and Xbp1. 2022 , 2, 1176-1190	0
604	Mechanisms of spermidine-induced autophagy and geroprotection. 2022 , 2, 1112-1129	0
603	Novel insights into reproductive ageing and menopause from genomics.	0
602	A conserved MTMR lipid phosphatase increasingly suppresses autophagy in brain neurons during aging. 2022 , 12,	0
601	SARS-CoV-2 infection induces the production of autoantibodies in severe COVID-19 patients in an age-dependent manner.	1
600	Is Aging a Disease? The Theoretical Definition of Aging in the Light of the Philosophy of Medicine. 2022 , 47, 770-783	1
599	Association of leukocyte mitochondrial DNA copy number with longitudinal C-reactive protein levels and survival in older adults: a cohort study. 2022 , 19,	0
598	Developmental Programming of Ageing Induced by Poor Maternal Nutrition. 2022 , 121-131	0
597	Multiple pathways promote microtubule stabilization in senescent intestinal epithelial cells. 2022 , 8,	0
596	Dietary stress remodels the genetic architecture of lifespan variation in outbred Drosophila.	0
595	The underexplored links between cancer and the internal body climate: Implications for cancer prevention and treatment. 12,	0
594	Update on the Role of Glucocorticoid Signaling in Osteoblasts and Bone Marrow Adipocytes During Aging.	0
593	Epigenomic and Other Evidence for Cannabis-Induced Aging Contextualized in a Synthetic Epidemiologic Overview of Cannabinoid-Related Teratogenesis and Cannabinoid-Related Carcinogenesis. 2022 , 19, 16721	0

592	Exercise-Boosted Mitochondrial Remodeling in Parkinson Disease. 2022 , 10, 3228	0
591	Accelerated ageing is associated with increased COVID-19 severity and differences across ethnic groups may exist. 10,	0
590	Genetic basis of enhanced stress resistance in long-lived mutants highlights key role of innate immunity in determining longevity.	1
589	Neutrophil dynamics and inflammaging in acute ischemic stroke: A transcriptomic review. 14,	0
588	Association of circadian rhythms with brain disorder incidents: a prospective cohort study of 72242 participants. 2022 , 12,	0
587	AnthropoAge, a novel approach to integrate body composition into the estimation of biological age.	0
586	Repurposing BCL-2 and Jak 1/2 inhibitors: Cure and treatment of HIV-1 and other viral infections. 13,	0
585	High levels of HDAC expression correlate with microglial aging. 1-12	0
584	The flavonoid GL-V9 alleviates liver fibrosis by triggering senescence by regulating the transcription factor GATA4 in activated hepatic stellate cells.	1
583	Planococcus maritimu ML1206 Strain Enhances Stress Resistance and Extends the Lifespan in Caenorhabditis elegans via FOXO/DAF-16. 2023 , 21, 1	0
582	Gut microbiota of the young ameliorates physical fitness of the aged in mice. 2022 , 10,	1
581	Mechanisms of RNA and Protein Quality Control and Their Roles in Cellular Senescence and Age-Related Diseases. 2022 , 11, 4062	1
580	Cell Tree Rings: the shape of somatic evolution as a human aging timer.	0
579	HP1 proteins regulate nucleolar structure and function by secluding pericentromeric constitutive heterochromatin.	0
578	Alternative telomere maintenance mechanism in Alligator sinensis provides insights into aging evolution. 2022 , 105850	0
577	The immunological role of ADAMs in the field of gastroenterological chronic inflammatory diseases and cancers: a review.	0
576	miR-29 is an important driver of aging-related phenotypes.	0
575	The Relationship between Reactive Oxygen Species and the cGAS/STING Signaling Pathway in the Inflammaging Process. 2022 , 23, 15182	0

574	Aging and aging-related diseases: from molecular mechanisms to interventions and treatments. 2022 , 7,	4
573	Visualizing somatic alterations in spatial transcriptomics data of skin cancer.	0
572	Integrative perspective of the healthy aging process considering the metabolome, cardiac autonomic modulation and cardiorespiratory fitness evaluated in age groups. 2022 , 12,	1
571	Endothelial Dysfunction and Chronic Inflammation: The Cornerstones of Vascular Alterations in Age-Related Diseases. 2022 , 23, 15722	1
570	Epigenetic alterations—the silent indicator for early aging and age-associated health-risks.	0
569	Mitochondrial cristae architecture protects against mtDNA release and inflammation. 2022 , 41, 111774	1
568	Randomization, design and analysis for interdependency in aging research: no person or mouse is an island. 2022 , 2, 1101-1111	0
567	Aging is associated with a systemic length-associated transcriptome imbalance. 2022 , 2, 1191-1206	2
566	Joint inference of physiological network and survival analysis identifies factors associated with aging rate. 2022 , 2, 100356	0
565	Effects of aging and long-term physical activity on mitochondrial physiology and redox state of the cortex and cerebellum of female rats. 2022 , 10,	0
564	Soft-Shelled Turtle Peptides Extend Lifespan and Healthspan in <i>Drosophila</i> . 2022 , 14, 5205	0
563	DRAGin situbarcoding reveals an increased number of HSPCs contributing to myelopoiesis with age.	0
562	Biological Age Predictors: The Status Quo and Future Trends. 2022 , 23, 15103	0
561	ONE-seq: epitranscriptome and gene-specific profiling of NAD-capped RNA.	0
560	The Senescence-Related Signature Predicts Prognosis and Characterization of Tumor Microenvironment Infiltration in Pancreatic Cancer. 2022 , 2022, 1-28	0
559	Morusin and mulberrin extend the lifespans of yeast and <i>C. elegans</i> via suppressing nutrient-sensing pathways.	0
558	Multiple myeloma, a quintessential malignant disease of aging: a geroscience perspective on pathogenesis and treatment.	0
557	Toll-like receptors and NLRP3 inflammasome-dependent pathways in Parkinson's disease: mechanisms and therapeutic implications.	2

556	Age-associated remodeling of T cell immunity and metabolism. 2022,	0
555	The Role and Mechanism of Polysaccharides in Anti-Aging. 2022, 14, 5330	1
554	Detecting low-intake dehydration using bioelectrical impedance analysis in older adults in acute care settings: a systematic review. 2022, 22,	0
553	Heterogeneity of fibroblasts is a Hallmark of age-associated erectile dysfunction. 2022, 106343	0
552	Associations of Socioeconomic Disparities With Buccal DNA-Methylation Measures Of Biological Aging.	0
551	Antioxidant Intervention to Improve Cognition in the Aging Brain: The Example of Hydroxytyrosol and Resveratrol. 2022, 23, 15674	1
550	Molecular methods to study protein trafficking between organs. 2100331	0
549	Leukocyte telomere length in children born following blastocyst-stage embryo transfer.	0
548	Ovarian rescue in women with premature ovarian insufficiency (POI): facts and fiction. 2022,	0
547	Induction of premature senescence and a less-fibrogenic phenotype by programmed cell death 4 knockdown in the human hepatic stellate cell line Lieming Xu-2.	0
546	Induction of tissue-specific premature stem cell aging via Lef1 deficiency promotes senescence-like deterioration in remote organs.	0
545	Mesenchymal stem cells ameliorate cisplatin-induced acute kidney injury via let-7b-5p.	0
544	Reversal of spatial memory impairment by phosphodiesterase 3 inhibitor cilostazol is associated with reduced neuroinflammation and increased cerebral glucose uptake in aged male mice. 13,	0
543	Physical Activity and Diet in Older Women: A Narrative Review. 2023, 12, 81	2
542	Leveraging pathway analysis in a human skin model of healthy aging.	0
541	Single-cell transcriptomics highlights immunological dysregulations of monocytes in the pathobiology of COPD. 2022, 23,	0
540	A multi-omics longitudinal aging dataset in primary human fibroblasts with mitochondrial perturbations. 2022, 9,	0
539	Aging Fly Cell Atlas Identifies Exhaustive Aging Features at Cellular Resolution.	0

- 538 Risk factors for cardiovascular complications in chronic kidney disease. **2022**, 100, 432-438 ○
- 537 VLA-4 suppression by senescence signals regulates meningeal immunity and leptomenigeal metastasis. 11, ○
- 536 Premature aging in childhood cancer survivors (Review). **2022**, 25, ○
- 535 Improving the effectiveness of anti-aging modalities by using the constrained disorder principle-based management algorithms. 3, ○
- 534 Hippocampal Deletion of CB1 Receptor Impairs Social Memory and Leads to Age-Related Changes in the Hippocampus of Adult Mice. **2023**, 24, 26 ○
- 533 Rapid emergence of transcriptional heterogeneity upon molecular stress predisposes cells to two distinct states of senescence. ○
- 532 Age- and Stage-Dependent Prostate Cancer Aggressiveness Associated with Differential Notch Signaling. **2023**, 24, 164 ○
- 531 Embryonic stem cell extracellular vesicles reverse the senescence of retinal pigment epithelial cells by the p38MAPK pathway. **2022**, 109365 ○
- 530 Biomarkers of mitochondrial dysfunction and inflammaging in older adults and blood pressure variability. 1
- 529 Epigenetic regulation of mesenchymal stem cell aging through histone modifications. **2022**, ○
- 528 A brain-wide form of presynaptic active zone plasticity orchestrates resilience to brain aging in *Drosophila*. **2022**, 20, e3001730 ○
- 527 Acarbose, an α -glucosidase inhibitor, maintains altered redox homeostasis during aging by targeting glucose metabolism in rat erythrocytes. ○
- 526 The Aging-Cancer Cycle: Mechanisms and Opportunities for Intervention. ○
- 525 Bioactive Oligopeptides from Ginseng (*Panax ginseng* Meyer) Suppress Oxidative Stress-Induced Senescence in Fibroblasts via NAD⁺/SIRT1/PGC-1 β Signaling Pathway. **2022**, 14, 5289 ○
- 524 Reduced Ribose-5-Phosphate Isomerase A-1 Expression in Specific Neurons and Time Points Promotes Longevity in *Caenorhabditis elegans*. **2023**, 12, 124 ○
- 523 Systems Biology of Ageing. **2023**, 415-424 ○
- 522 Ageing Skeletal Muscle: The Ubiquitous Muscle Stem Cell. **2023**, 365-377 ○
- 521 The Double-Edged Role of Extracellular Vesicles in the Hallmarks of Aging. **2023**, 13, 165 1

- 520 Modulation of protease expression by the transcription factor Ptx1/PITX regulates protein quality control during aging. **2023**, 42, 111970 ○
- 519 A Cocktail of Polyherbal Bioactive Compounds and Regular Mobility Training as Senolytic Approaches in Age-dependent Alzheimer's: the In Silico Analysis, Lifestyle Intervention in Old Age. ○
- 518 Functional restoration of lysosomes and mitochondria through modulation of AKT activity ameliorates senescence. **2023**, 112091 1
- 517 Probiotics- its functions and influence on the ageing process: A comprehensive review. **2023**, 102389 ○
- 516 The innate immune signaling component FBXC-58 mediates dietary restriction effects on healthy aging in *Caenorhabditis elegans*. ○
- 515 Loading Nanoceria Improves Extracellular Vesicle Membrane Integrity and Therapy to Wounds in Aged Mice. ○
- 514 A risk stratification and prognostic prediction model for lung adenocarcinoma based on aging-related lncRNA. **2023**, 13, ○
- 513 Correlation between stem cell molecular phenotype and atherosclerotic plaque neointima formation and analysis of stem cell signal pathways. 11, ○
- 512 Age-dependent expression of ion channel genes in rat. **1993**, 27, 85-94 ○
- 511 EFFECT OF RADIATION ON AGING PROCESSES AND TELOMERE LENGTH. **2022**, 27, 107-119 ○
- 510 Genetic architecture of brain age and its casual relations with brain and mental disorders. ○
- 509 Mesenchymal Cells in The Lung: Evolving Concepts and Their Role in Fibrosis. **2023**, 147142 ○
- 508 The Nuclear Envelope in Ageing and Progeria. **2023**, 53-75 ○
- 507 Extracellular Vesicles and Cellular Ageing. **2023**, 271-311 1
- 506 Introduction: Progression of the Science of Ageing. **2023**, 1-6 ○
- 505 Ageing at Molecular Level: Role of MicroRNAs. **2023**, 195-248 ○
- 504 Willingness to get vaccinated against influenza, pneumococcal disease, pertussis, and herpes zoster: A pre-COVID-19 exploration among the older adult population. **2023**, ○
- 503 The Role of SOX Transcription Factors in Ageing and Age-Related Diseases. **2023**, 24, 851 ○

502	Contribution of Extracellular Vesicles and Molecular Chaperones in Age-Related Neurodegenerative Disorders of the CNS. 2023 , 24, 927	0
501	Low Magnesium in Conjunction with High Homocysteine and Less Sleep Accelerates Telomere Attrition in Healthy Elderly Australian. 2023 , 24, 982	0
500	Anti-ageing effects of FDA-approved medicines: a focused review. 2023 ,	0
499	Reduced sphingolipid biosynthesis modulates proteostasis networks to enhance longevity.	0
498	Age-Related Changes of the Synucleins Profile in the Mouse Retina. 2023 , 13, 180	0
497	Genetic architecture of brain age and its casual relations with brain and mental disorders.	0
496	Effects of short-term exposure to low doses of bisphenol A on cellular senescence in the adult rat kidney.	0
495	Lung and Gut Microbiota Interactions with Air Pollution and Aging in Human Chronic Diseases. 2023 , 215-236	0
494	A deeply conserved protease, acylamino acid-releasing enzyme (AARE), acts in ageing in Physcomitrella and Arabidopsis. 2023 , 6,	0
493	Gene Therapy Mediated Partial Reprogramming Extends Lifespan and Reverses Age-Related Changes in Aged Mice.	0
492	A seed-and-soil theory for blood ageing.	0
491	Aging of the Vasculature. 2023 , 153-182	0
490	Meta-hallmarks of aging and cancer. 2023 , 35, 12-35	3
489	Chromatin Structure from Development to Ageing. 2023 , 7-51	0
488	Gerobiotics: Probiotics for Healthy Aging. 2023 , 357-373	0
487	An Insight into Platelets at Older Age: Cellular and Clinical Perspectives. 2023 , 343-363	0
486	Visceral Adipose Tissue Bioenergetics Varies According to Individuals Obesity Class. 2023 , 24, 1679	0
485	COVID-19: A Comprehensive Review on Cardiovascular Alterations, Immunity, and Therapeutics in Older Adults. 2023 , 12, 488	1

484	Identification and evaluation of midbrain specific longevity-related genes in exceptionally long-lived but healthy mice. 14,	0
483	Does oxidative stress shorten telomeres in vivo? A meta-analysis. 2023 , 101854	0
482	Identification of the ageing-related prognostic gene signature, and the associated regulation axis in skin cutaneous melanoma. 2023 , 13,	0
481	The temporal trend of disease burden attributable to metabolic risk factors in China, 1990-2019: An analysis of the Global Burden of Disease study. 9,	0
480	Anti-retroviral treatment with zidovudine alters pyrimidine metabolism, reduces translation, and extends healthy longevity via ATF-4. 2023 , 42, 111928	1
479	Ageing Gut Microbiota and Colorectal Cancer Pathways Correlations 2023 , 335-354	0
478	CircRNA and Ageing. 2023 , 249-270	0
477	Interactomics: dozens of viruses, co-evolving with humans, including the influenza A virus, may actively distort human ageing.	0
476	A systematic review on the effects of ROCK inhibitors on proliferation and/or differentiation in human somatic stem cells: A hypothesis that ROCK inhibitors support corneal endothelial healing via acting on the limbal stem cell niche. 2023 , 27, 16-29	0
475	Sex, aging and immunity in multiple sclerosis and experimental autoimmune encephalomyelitis: An intriguing interaction. 13,	0
474	Loss of resilience contributes to detrusor underactivity in advanced age.	0
473	Reversine ameliorates hallmarks of cellular senescence in human skeletal myoblasts via reactivation of autophagy.	0
472	Royal Jelly Increases Hematopoietic Stem Cells in Peripheral Blood: A Double-Blind, Placebo-Controlled, Randomized Trial in Healthy Subjects. 2023 , 2023, 1-11	0
471	Progress and challenges in directing the differentiation of human iPSCs into spinal motor neurons. 10,	0
470	Hallmarks of aging: An expanding universe. 2023 ,	19
469	Defining the age-dependent and tissue-specific circadian transcriptome in male mice. 2023 , 42, 111982	1
468	Spt4 promotes cellular senescence by activating non-coding RNA transcription in ribosomal RNA gene clusters. 2023 , 42, 111944	0
467	Homeodomain-interacting protein kinase maintains neuronal homeostasis during normal <i>Caenorhabditis elegans</i> aging and systemically regulates longevity from serotonergic and GABAergic neurons.	0

- 466 Health-related heterogeneity in brain aging and associations with longitudinal change in cognitive function. 14, 0
- 465 Endoplasmic Reticulum Stress in Elderly Patients with COVID-19: Potential of Melatonin Treatment. **2023**, 15, 156 0
- 464 Conditioned medium from human cord blood mesenchymal stem cells attenuates age-related immune dysfunctions. 10, 0
- 463 Testing the evidence that lifespan-extending compound interventions are conserved across laboratory animal model species. 0
- 462 Fork-Remodeling Helicase Rad5 Preferentially Reverses Replication Forks with Gaps in the Leading Strand. **2023**, 435, 167946 0
- 461 Exosomes: the latest in regenerative aesthetics. **2023**, 18, 181-194 1
- 460 Association between cadmium exposure and pulmonary function reduction: Potential mediating role of telomere attrition in chronic obstructive pulmonary disease patients. **2023**, 251, 114548 0
- 459 Autophagy and polyphenol intervention strategy in aging. **2023**, 132, 1-10 0
- 458 Dysregulated systemic metabolism in a Down syndrome mouse model. **2023**, 68, 101666 0
- 457 Concepts and definitions of healthy ageing: a systematic review and synthesis of theoretical models. **2023**, 56, 101821 0
- 456 A comparison of cognitive performances based on differing rates of DNA methylation GrimAge acceleration among older men and women. **2023**, 123, 83-91 0
- 455 METTL3 alleviates D-gal-induced renal tubular epithelial cellular senescence via promoting miR-181a maturation. **2023**, 210, 111774 0
- 454 Age-dependent mechanical properties of tail tendons in wild-type and mimecan gene-knockout mice | A preliminary study. **2023**, 139, 105672 0
- 453 Metabolomics-Based Identification of Metabolic Dysfunction in Frailty. **2022**, 77, 2367-2372 3
- 452 A citológiai megközelítéssel vizsgálta a szenesedési folyamatok és a telomér hossza közötti kapcsolatot. **2021**, 69-76 0
- 451 Molecular and Clinical Aspects in The Concept of Healthy Ageing. **2022**, 0
- 450 Histone methyltransferase Smyd2 drives vascular aging by its enhancer-dependent activity. **2023**, 15, 70-91 0
- 449 Life on Magnet: Long-Term Exposure of Moderate Static Magnetic Fields on the Lifespan and Healthspan of Mice. **2023**, 12, 108 1

- 448 Isocitrate Dehydrogenase Alpha-1 Modulates Lifespan and Oxidative Stress Tolerance in *Caenorhabditis elegans*. **2023**, 24, 612 ○
- 447 Optogenetic rejuvenation of mitochondrial membrane potential extends *C. elegans* lifespan. ○
- 446 Biomonitoring of heavy metals and their association with DNA damage in Indian peafowl (*Pavo cristatus*) under captivity. ○
- 445 How Soon Do Metabolic Alterations and Oxidative Distress Precede the Reduction of Muscle Mass and Strength in Wistar Rats?. ○
- 444 The sirtuin family in health and disease. **2022**, 7, 1
- 443 Lack of evidence for increased transcriptional noise in aged tissues. 11, 1
- 442 Chromatin Dynamics: Chromatin Remodeler, Epigenetic Modification and Diseases. ○
- 441 Multifaceted *Nothobranchius*. **2022**, 87, 1563-1578 ○
- 440 C-C motif chemokine ligand 2 promotes myogenesis of myoblasts via the AKT-mTOR pathway. **2022**, 14, 9860-9876 ○
- 439 Cellular metabolism and mitochondrial dysfunction in chronic obstructive pulmonary disease. ○
- 438 The impact of insomnia on frailty and the hallmarks of aging. ○
- 437 Potential antiaging and hepatoprotective effects of *Acanthopanax senticosus* extracts in adult rat models. 1
- 436 Planetary Metronome as a Regulator of Lifespan and Aging Rate: The Metronomic Hypothesis. **2022**, 87, 1640-1650 ○
- 435 Is Aging an Inevitable Characteristic of Organic Life or an Evolutionary Adaptation?. **2022**, 87, 1413-1445 ○
- 434 The membrane domain of respiratory complex I accumulates during muscle aging in *Drosophila melanogaster*. **2022**, 12, ○
- 433 Age effect on mesenchymal stem cell properties: a concise review. **2022**, 4, 109-118 ○
- 432 Tracing Slow Phenoptosis to the Prenatal Stage in Social Vertebrates. **2022**, 87, 1512-1527 ○
- 431 Induction of tissue-specific premature stem cell aging via Lef1 deficiency promotes senescence-like deterioration in remote organs. ○

- 430 Regulation of telomere silencing by the core histones and autophagy on the p53 axis. **2023**, 6, e202201614 ○
- 429 Reduction, proliferation, and differentiation defects of stem cells over time: a consequence of selective accumulation of old centrioles in the stem cells?. ○
- 428 Activation and Metabolic Shifting: An Essential Process to Mesenchymal Stromal Cells Function. ○
- 427 Pilot Study of Item Response Theory-based DNA Methylation Analysis for Aging Association. **2022**, ○
- 426 Quercetin Prevents Intestinal Stem Cell Aging via Scavenging ROS and Inhibiting Insulin Signaling in *Drosophila*. **2023**, 12, 59 ○
- 425 Current Trends and Approaches to the Search for Genetic Determinants of Aging and Longevity. **2022**, 58, 1427-1443 ○
- 424 Tissue stretching is a confounding factor for the evaluation of neurodegeneration in the ever-growing killifish. ○
- 423 Behavioral state-dependent modulation of insulin-producing cells in *Drosophila*. **2022**, ○
- 422 ERCC1 mice, unlike other premature aging models, display accelerated epigenetic age. ○
- 421 scShapes: a statistical framework for identifying distribution shapes in single-cell RNA-sequencing data. **2022**, 12, 1 ○
- 420 High-depth whole-genome sequencing identifies structure variants, copy number variants and short tandem repeats associated with Parkinson's disease. ○
- 419 Age-associated adipose tissue inflammation promotes monocyte chemotaxis and enhances atherosclerosis. ○
- 418 Common factors among three types of cells aged in mice. ○
- 417 Fiber-Type Shifting in Sarcopenia of Old Age: Proteomic Profiling of the Contractile Apparatus of Skeletal Muscles. **2023**, 24, 2415 1
- 416 Association between B-vitamins intake and frailty among patients with chronic obstructive pulmonary disease. ○
- 415 Micronucleus Assay in Lymphocytes for Human Biomonitoring and Clinical Studies. **2023**, 623-646 ○
- 414 Intermittent Fasting as an Anti-Aging Strategy. **2023**, 191-206 ○
- 413 Evolutionary and genomic perspectives of brain aging and neurodegenerative diseases. **2023**, ○

- 412 Quadruplexes and aging: G4-binding proteins regulate the presence of miRNA in small extracellular vesicles (sEVs). **2023**, ○
- 411 Global analysis of aging-related protein structural changes uncovers enzyme polymerization-based control of longevity. ○
- 410 Associations of four biological age markers with child development: A multi-omic analysis in the European HELIX cohort. ○
- 409 Particle Nanoarchitectonics for Nanomedicine and Nanotherapeutic Drugs with Special Emphasis on Nasal Drugs and Aging. **2023**, 11, 354 ○
- 408 DNA Methylation Signature of Aging: Potential Impact on the Pathogenesis of Parkinson's Disease. **2023**, 1-20 ○
- 407 Geroscience: the concept. **2023**, 1-12 ○
- 406 The collaborative peer review framework as a model for training biomedical graduate students to perform rigorous, ethical peer review. **2023**, 7, 9-11 ○
- 405 Redox Biology in Adipose Tissue Physiology and Obesity. 2200234 ○
- 404 A dual MTOR/NAD+ acting gerotherapy. ○
- 403 Construction and validation of an aging-related gene signature predicting the prognosis of pancreatic cancer. 14, ○
- 402 Glycolytic Inhibitors as Caloric Restriction Mimetics (CRM). **2023**, 57-78 ○
- 401 Functional Aging: Integrating Functionality to a Multidimensional Assessment of Healthy Aging. **2023**, 2023, 1-6 ○
- 400 Purkinje-cell-specific DNA repair-deficient mice reveal that dietary restriction protects neurons by cell-intrinsic preservation of genomic health. 14, ○
- 399 Perinatal Obesity Sensitizes for Premature Kidney Aging Signaling. **2023**, 24, 2508 ○
- 398 Age-dependent nuclear lipid droplet deposition is a cellular hallmark of aging in *Caenorhabditis elegans*. ○
- 397 Melatonin in Aging and Aging-Related Disorders. **2023**, 155-189 ○
- 396 Identification of Novel Senescent Markers in Small Extracellular Vesicles. **2023**, 24, 2421 ○
- 395 Role of Oxidative Stress in Ocular Diseases: A Balancing Act. **2023**, 13, 187 1

- 394 Targeting Mitochondria to Control Ageing and Senescence. **2023**, 15, 352 ○
- 393 The pivotal role of JAK/STAT and IRS/PI3K signaling pathways in neurodegenerative diseases: Mechanistic approaches to polyphenols and alkaloids. **2023**, 154686 ○
- 392 Genetics and Epigenetics of Aging and Age-Associated Diseases. **2023**, 1-16 ○
- 391 La edad molecular: reimaginando la vejez desde laboratorios de experimentaci3n en tel3meros. **2023**, 38, 369-387 ○
- 390 The anti-aging mechanism of Berberine associated with metabolic control. **2023**, 305-327 ○
- 389 Sarcopenia: investigation of metabolic changes and its associated mechanisms. **2023**, 13, ○
- 388 Basic pathways and targets for anti-aging intervention. **2023**, 13-40 ○
- 387 Symbiotic association of gut microbiome in health and diseases at ageing. **2023**, 551-571 ○
- 386 Association between biological aging and lung cancer risk: cohort study and Mendelian randomization analysis. **2023**, 106018 ○
- 385 Causes of Clonal Hematopoiesis: a Review. ○
- 384 Extensive accumulation of misfolded protein aggregates during natural aging and senescence. 14, ○
- 383 Biological Aging in People Living with HIV on Successful Antiretroviral Therapy: Do They Age Faster?. ○
- 382 The Effect of the Tau Protein on D. melanogaster Lifespan Depends on GSK3 Expression and Sex. **2023**, 24, 2166 ○
- 381 Genome-wide RNA polymerase stalling shapes the transcriptome during aging. ○
- 380 Phenome-wide analysis identifies parent-of-origin effects on the human methylome associated with changes in the rate of aging. ○
- 379 Nutritional and lifestyle management of the aging journey: A narrative review. 9, ○
- 378 Anti-aging and Rejuvenation Based on Stem Cell Therapy. **2023**, 79-98 ○
- 377 Role of Buccal Cells in Neurodegeneration. **2023**, 1-16 ○

- 376 Prenatal thyroid hormones accelerate postnatal growth and telomere shortening in wild great tits. ○
- 375 Histone Modifications in Alzheimer's Disease. **2023**, 14, 347 ○
- 374 Mitochondrial modulators. **2023**, 193-226 ○
- 373 Autophagy of Naïve CD4+ T cells - Role of aging, body adiposity, and physical fitness. 1-34 ○
- 372 Actin limits egg aneuploidies associated with female reproductive aging. **2023**, 9, ○
- 371 Protein kinase modulation for anti-aging intervention. **2023**, 285-304 ○
- 370 Temporal trend of population structure, burden of diseases, healthcare resources and expenditure in China, 2000-2019. **2023**, 13, e062091 ○
- 369 Aging and Bone Metabolism. 4355-4386 ○
- 368 Rilmenidine extends lifespan and healthspan in *Caenorhabditis elegans* via a nicotinic acetylcholine receptor. ○
- 367 Efficient representations of binarized health deficit data: the frailty index and beyond. ○
- 366 Toward Healthy Aging: A Clinical Trial Builds on Mechanistic Insights. **2023**, 78, 73-74 ○
- 365 An Updated Overview on the Role of Small Molecules and Natural Compounds in the Young Science of Rejuvenation. **2023**, 12, 288 ○
- 364 Exosome Release Delays Senescence by Disposing of Obsolete Biomolecules. 2204826 1
- 363 Coenzyme Q as an Antiaging Strategy. **2023**, 17-39 ○
- 362 Reprogramming of adult human dermal fibroblasts to induced dorsal forebrain precursor cells maintains aging signatures. 17, ○
- 361 SIRT6 is a key regulator of mitochondrial function in the brain. **2023**, 14, ○
- 360 Lysophospholipids and branched chain amino acids are associated with aging: a metabolomics-based study of Chinese adults. **2023**, 28, ○
- 359 Sleep and Circadian Clock: Novel Players in Health Impacts and Aging. **2023**, 3-31 ○

- 358 Immune Deficiencies at the Extremes of Age. **2023**, 272-280 ○
- 357 Ontology (3): The Case for Programs: Altruistic Suicide, Quasi-Programs and Smurfs. **2023**, 419-459 ○
- 356 Vitamin D as a Shield against Aging. **2023**, 24, 4546 ○
- 355 A PSYCHOSOCIAL PROBLEM: ELDERLY CRISIS THAT TURNS FROM PREJUDICE TO VIOLENCE. **2023**, 6, 115-142 ○
- 354 Aging and memory are altered by genetically manipulating lactate dehydrogenase in the neurons or glia of flies. ○
- 353 Implication of Cellular Senescence in Osteoarthritis: A Study on Equine Synovial Fluid Mesenchymal Stromal Cells. **2023**, 24, 3109 ○
- 352 Anti-Inflammatory Effects of Flavonoids in Common Neurological Disorders Associated with Aging. **2023**, 24, 4297 1
- 351 Folic acid protects against age-associated apoptosis and telomere attrition of neural stem cells in senescence-accelerated mouse prone 8. ○
- 350 Progress in Discovering Transcriptional Noise in Aging. **2023**, 24, 3701 ○
- 349 The chromatin factors SET-26 and HCF-1 oppose the histone deacetylase HDA-1 in longevity and gene regulation in *C. elegans*. ○
- 348 Longitudinal telomere dynamics within natural lifespans of a wild bird. **2023**, 13, ○
- 347 DNA methylation accelerated age as captured by epigenetic clocks influences breast cancer risk. 13, ○
- 346 Healthy lifestyle behaviors and biological aging in the US National Health and Nutrition Examination Surveys 1999-2018. ○
- 345 Mitochondrial DNA as inflammatory DAMP: a warning of an aging immune system?. ○
- 344 Association between the Inflammatory Potential of the Diet and Biological Aging: A Cross-Sectional Analysis of 4510 Adults from the Moli-Sani Study Cohort. **2023**, 15, 1503 ○
- 343 PGC-1s shape epidermal physiology by modulating keratinocyte proliferation and terminal differentiation. **2023**, 26, 106314 ○
- 342 Heterogeneous aging across multiple organ systems and prediction of chronic disease and mortality. ○
- 341 Structural and Physiological Changes of the Kidney with Age and its Impact on Chronic Conditions and COVID-19. **2023**, 101932 ○

- 340 Hematopoietic stem cells preferentially traffic misfolded proteins to aggresomes and depend on autophagy to maintain protein homeostasis. **2023**, 30, 460-472.e6 ○
- 339 Canonical and extra-telomeric functions of telomerase: Implications for healthy ageing conferred by endurance training. ○
- 338 Progress in biological age research. 11, ○
- 337 Effect of Sirt3 on hippocampal MnSOD activity, mitochondrial function, physiology, and cognition in an aged murine model. **2023**, 444, 114335 ○
- 336 Association of 3-year change in sleep duration with risk of all-cause mortality in Chinese older population: A national cohort study. **2023**, 105, 25-31 ○
- 335 The pollutome-connectome axis: a putative mechanism to explain pollution effects on neurodegeneration. **2023**, 86, 101867 ○
- 334 Are cytoskeleton changes observed in astrocytes functionally linked to aging?. **2023**, 196, 59-67 ○
- 333 Alpha-ketoglutarate as a potent regulator for lifespan and healthspan: Evidences and perspectives. **2023**, 175, 112154 ○
- 332 Juvenile hormone suppresses the FoxO-takeout axis to shorten longevity in male silkworm. **2023**, 192, 105388 ○
- 331 Non-invasive coronary imaging in elderly population. **2023**, 162, 110794 ○
- 330 Aging and diabetic retinopathy: Inherently intertwined pathophysiological processes. **2023**, 175, 112138 ○
- 329 The pyruvate dehydrogenase complex: Life's essential, vulnerable and druggable energy homeostat. **2023**, 70, 59-102 ○
- 328 Older age should not be a barrier to testing for somatic variants in homologous recombination DNA repair-related genes in patients with high-grade serous ovarian carcinoma. **2023**, 31, 101638 ○
- 327 Exploring the role of mitochondria transfer/transplant and their long-non-coding RNAs in regenerative therapies for skin aging. **2023**, 70, 41-53 ○
- 326 Progression of pre-rheumatoid arthritis to clinical disease of joints: Potential role of mesenchymal stem cells. **2023**, 321, 121641 ○
- 325 In silico evaluation of geroprotective phytochemicals as potential sirtuin 1 interactors. **2023**, 161, 114425 ○
- 324 Links between telomere dysfunction and hallmarks of aging. **2023**, 888, 503617 ○
- 323 DNA damage-induced stalling of transcription drives aging through gene expression imbalance. **2023**, 125, 103483 ○

- 322 Dynamics of cellular senescence markers after HCV elimination spontaneously or by DAAs in people living with HIV. **2023**, 162, 114664 ○
- 321 D-chiro-inositol increases antioxidant capacity and longevity of *Caenorhabditis elegans* via activating Nrf-2/SKN-1 and FOXO/DAF-16. **2023**, 175, 112145 1
- 320 Corruption of DNA end-joining in mammalian chromosomes by progerin expression. **2023**, 126, 103491 ○
- 319 The role of Sirtuin 1 and its activators in age-related lung disease. **2023**, 162, 114573 ○
- 318 Senomorphic effect of diphenyleiodonium through AMPK/MFF/DRP1 mediated mitochondrial fission. **2023**, 162, 114616 ○
- 317 The role of dietary strategies in the modulation of hallmarks of aging. **2023**, 87, 101908 ○
- 316 Mitochondrion: A bridge linking aging and degenerative diseases. **2023**, 322, 121666 ○
- 315 The effect of prolonged intermittent fasting on autophagy, inflammasome and senescence genes expressions: An exploratory study in healthy young males. **2023**, 32, 200189 ○
- 314 Mitochondria as biological targets for stem cell and organismal senescence. **2023**, 102, 151289 ○
- 313 Interleukin 6 and Interleukin 1β hypomethylation and overexpression are common features of apical periodontitis: A case-control study with gingival tissue as control. **2023**, 150, 105694 ○
- 312 Future foods, dietary factors and healthspan. **2023**, 3, 75-98 ○
- 311 Exercise protects aged mice against coronary endothelial senescence via FUNDC1-dependent mitophagy. **2023**, 62, 102693 ○
- 310 Pathways to healing: Plants with therapeutic potential for neurodegenerative diseases. **2023**, 14, 210-234 ○
- 309 *Lycium ruthenicum* Murr. treatment attenuates APPswE/PS1E9 mouse model-like mitochondrial dysfunction in Slc25a46 knockout mouse model. **2023**, 12, 1618-1625 ○
- 308 m6A-mediated nonhomologous end joining (NHEJ) pathway regulates senescence in *Brachionus plicatilis* (Rotifera). **2023**, 111, 104994 ○
- 307 Longitudinal fundus imaging and its genome-wide association analysis provide evidence for a human retinal aging clock. 12, ○
- 306 Epigenetic Mechanisms of Aging and Aging-Associated Diseases. **2023**, 12, 1163 ○
- 305 β-Hydroxybutyrate alleviates cartilage senescence through hnRNP A1-mediated up-regulation of PTEN. **2023**, 175, 112140 ○

- 304 The Immune and Inflammatory Response to Major Traumatic Injury. **2022**, 147-160 ○
- 303 Scleraxis-lineage cells are required for tendon homeostasis and their depletion induces an accelerated extracellular matrix aging phenotype. 12, ○
- 302 Repurposing digoxin for geroprotection in patients with frailty and multimorbidity. **2023**, 86, 101860 ○
- 301 A systematic review and meta-analysis of randomized controlled trials investigating the effects of probiotics on oxidative stress in healthy adults. **2023**, 54, 180-186 ○
- 300 Deciphering the role of lipoproteins and lipid metabolic alterations in ageing and ageing-associated renal fibrosis. **2023**, 85, 101861 ○
- 299 Ultra-small polydopamine nanomedicine-enabled antioxidation against senescence. **2023**, 19, 100544 ○
- 298 Oral and gastrointestinal nutrient bioaccessibility of gluten-free bread is slightly affected by deficient mastication in the elderly. **2023**, 165, 112523 ○
- 297 Network-based cytokine inference implicates Oncostatin M as a driver of knee osteoarthritis. ○
- 296 Enteropathy and gut dysbiosis as obstacles to achieve immune recovery in undetectable people with HIV: a clinical view of evidence, successes, and projections. **2023**, 37, 367-378 ○
- 295 The emerging roles of tRNAs and tRNA-derived fragments during aging: Lessons from studies on model organisms. **2023**, 85, 101863 ○
- 294 Strategies for the study of neuroepigenetics and aging with a translational approach. **2023**, 3, 100122 ○
- 293 Thymosin beta-4 denotes new directions towards developing prosperous anti-aging regenerative therapies. **2023**, 116, 109741 ○
- 292 Single cell DNA methylation ageing in mouse blood. ○
- 291 Circulating exosome-like vesicle and skeletal muscle microRNAs are altered with age and resistance training. ○
- 290 Is Red Cell Distribution Width a reliable marker for cardiovascular diseases? A narrative review. Publish Ahead of Print, 1
- 289 Longevity, Centenarians and Modified Cellular Proteodynamics. **2023**, 24, 2888 ○
- 288 Premature Aging and Reduced Cancer Incidence Associated with Body-Wide Loss ofMyc. ○
- 287 Three-dimensional chromatin re-organization during muscle stem cell aging. **2023**, 22, ○

- 286 Age-associated declining of the regeneration potential of skeletal stem/progenitor cells. 14, ○
- 285 Cross-sectional study and bioinformatics analysis to reveal the correlations of osteoporosis in patients with Parkinson's disease. **2023**, 173, 112111 ○
- 284 Beyond Pellagra Research Models and Strategies Addressing the Enduring Clinical Relevance of NAD Deficiency in Aging and Disease. **2023**, 12, 500 ○
- 283 Biomarkers for biosensors to monitor space-induced cardiovascular ageing. 4, ○
- 282 Antioxidant and Anti-Inflammatory Compounds from Edible Plants with Anti-Cancer Activity and Their Potential Use as Drugs. **2023**, 28, 1488 ○
- 281 All-in-one smart dressing for simultaneous angiogenesis and neural regeneration. **2023**, 21, ○
- 280 Metabolomics Profiling of Age-Associated Metabolites in Malay Population. **2023**, 2023, 1-12 ○
- 279 Lost inHELLS: disentangling the mystery ofSALNResistance in senescence cellular models. ○
- 278 Elamipretide Improves ADP Sensitivity in Aged Mitochondria by Increasing Uptake through the Adenine Nucleotide Translocator (ANT). ○
- 277 Naringin protects mice from D-galactose-induced lung aging and mitochondrial dysfunction: Implication of SIRT1 pathways. **2023**, 121471 ○
- 276 Human Xylosyltransferase IAn Important Linker between Acute Senescence and Fibrogenesis. **2023**, 11, 460 ○
- 275 Extracellular Vesicles in Aging: An Emerging Hallmark?. **2023**, 12, 527 ○
- 274 The role of folate receptor in the partial rejuvenation of dentate gyrus cells. Improvement of cognitive function in elderly mice. ○
- 273 Exploring potential strategies to enhance memory and cognition in aging mice. 12, 141 ○
- 272 Antagonistic pleiotropy: the example of cardiac insulin-like growth factor signaling, which is essential in youth but detrimental in age. **2023**, 27, 87-90 ○
- 271 Clinicopathological Features of Kidney Injury Related to Immune Checkpoint Inhibitors: A Systematic Review. **2023**, 12, 1349 ○
- 270 Football training as a non-pharmacological treatment of the global aging populationA topical review. 4, ○
- 269 The Cutting Edge of Epigenetic Clocks: In Search of Mechanisms Linking Aging and Mental Health. **2023**, ○

- 268 DNA repair in cardiomyocytes is critical for maintaining cardiac function in mice. **2023**, 22, 1
- 267 Bazi Bushen mitigates epigenetic aging and extends healthspan in naturally aging mice. **2023**, 160, 114384 1
- 266 Effect of long-term caloric restriction on DNA methylation measures of biological aging in healthy adults from the CALERIE trial. **2023**, 3, 248-257 0
- 265 Transposable elements and their role in aging. **2023**, 86, 101881 0
- 264 Hallmarks and Biomarkers of Skin Senescence: An Updated Review of Skin Senotherapeutics. **2023**, 12, 444 0
- 263 Differential methylation in CD44 and SEC23A is associated with time preference in older individuals. **2023**, 49, 101233 0
- 262 Deletion of NRF2 disturbs composition, morphology, and differentiation of the murine tail epidermis in chronological aging. 0
- 261 Coupling of autophagy and the mitochondrial intrinsic apoptosis pathway modulates proteostasis and ageing in *Caenorhabditis elegans*. **2023**, 14, 0
- 260 Identifying the needs of older people living with HIV (≥50 years old) from multiple centres over the world: a descriptive analysis. **2023**, 20, 0
- 259 Role of the Mitochondrial Permeability Transition in Bone Metabolism and Aging. **2023**, 38, 522-540 0
- 258 Glucose 6-P Dehydrogenase Overexpression Improves Aging-Induced Endothelial Dysfunction in Aorta from Mice: Role of Arginase II. **2023**, 24, 3622 0
- 257 Ontology (2) Death Programs and Their Discontents. **2023**, 381-418 0
- 256 Manifold epigenetics: A conceptual model that guides engineering strategies to improve whole-body regenerative health. 11, 0
- 255 A near-infrared fluorescent nanoprobe for senescence-associated β -galactosidase sensing in living cells. **2023**, 59, 2974-2977 0
- 254 MiR-302-Induced anti-aging neural stem cells enhance cognitive function and extend lifespan. 0
- 253 Death Is a Social Issue. **2023**, 461-488 0
- 252 The Alzheimer's Disease Mitochondrial Cascade Hypothesis: A Current Overview. **2023**, 92, 751-768 0
- 251 Systematic estimation of biological age of in vitro cell culture systems by an age-associated marker panel. 4, 0

- 250 Impact of Advanced Paternal Age on Fertility and Risks of Genetic Disorders in Offspring. **2023**, 14, 486 ○
- 249 Chromosomal and gonadal factors regulate microglial sex effects in the aging brain. **2023**, 195, 157-171 ○
- 248 Effects of Ginsenoside Rg1 on the Biological Behavior of Human Amnion-Derived Mesenchymal Stem/Stromal Cells (hAD-MSCs). **2023**, 2023, 1-19 ○
- 247 Clinical Epigenomic Explanation of the Epidemiology of Cannabinoid Genotoxicity Manifesting as Transgenerational Teratogenesis, Cancerogenesis and Aging Acceleration. **2023**, 20, 3360 ○
- 246 Protein homeostasis in aging and cancer. 11, ○
- 245 Reverse electron transfer is activated during aging and contributes to aging and age-related disease. **2023**, 24, 2
- 244 The effects of macronutrients metabolism on cellular and organismal aging. **2023**, ○
- 243 A Year at the Forefront of Proteostasis and Aging. **2023**, 12, ○
- 242 DNA methylation entropy as a measure of stem cell replication and aging. **2023**, 24, ○
- 241 Geriatrie für Nichtgeriater. **2023**, 4, 4-15 ○
- 240 Aging, Physical Exercise, Telomeres, and Sarcopenia: A Narrative Review. **2023**, 11, 598 ○
- 239 P21 Overexpression Promotes Cell Death and Induces Senescence in Human Glioblastoma. **2023**, 15, 1279 ○
- 238 Genome-wide analysis reveals novel regulators of synaptic maintenance in Drosophila. **2023**, 223, ○
- 237 Exogenous glucosylglycerol and proline extend the chronological lifespan of *Rhodospiridium toruloides*. ○
- 236 SIRT1 as a Potential Therapeutic Target for Chronic Obstructive Pulmonary Disease. **2023**, 201, 201-215 ○
- 235 The multi-tissue landscape of somatic mtDNA mutations indicates tissue-specific accumulation and removal in aging. 12, 1
- 234 Implications of Senescent Cell Burden and NRF2 Pathway in Uremic Calcification: A Translational Study. **2023**, 12, 643 ○
- 233 The etiology of clonal mosaicism in human aging and disease. **2023**, 4, 3-20 ○

- 232 Iron status influences mitochondrial disease progression in Complex I-deficient mice. 12, 0
- 231 Single 30 min treadmill exercise session suppresses the production of pro-inflammatory cytokines and oxidative stress in obese female adolescents. **2023**, 34, 235-242 2
- 230 An evaluation of the role of miR-361-5p in senescence and systemic ageing. **2023**, 174, 112127 0
- 229 Microbial-Immune Crosstalk in Elderly-Onset Inflammatory Bowel Disease: Uncharted Territory. 0
- 228 Functional association between telomeres, oxidation and mitochondria. 5, 0
- 227 Development of the Lung Transplant Frailty Scale (LT-FS). **2023**, 0
- 226 Differential decline of physical fitness with age according to Body Mass Index levels. 0
- 225 Behavioural changes in slime moulds over time. **2023**, 378, 0
- 224 m6A methylation: Critical roles in aging and neurological diseases. 16, 0
- 223 MYC-driven increases in mitochondrial DNA copy number occur early and persist throughout prostatic cancer progression. 0
- 222 The association between sex hormones and the change in brain-predicted age difference in older women. **2023**, 98, 692-699 0
- 221 Extracellular Vesicles as Very Important Particles (VIPs) in Aging. **2023**, 24, 4250 0
- 220 A novel transgenic mouse model expressing primate-specific nuclear choline acetyltransferase: insights into potential cholinergic vulnerability. **2023**, 13, 0
- 219 Cross-talk between energy and redox metabolism in astrocyte-neuron functional cooperation. **2023**, 67, 17-26 0
- 218 Local senolysis in aged mice only partially replicates the benefits of systemic senolysis. **2023**, 133, 0
- 217 The Senolytic Drug Fisetin Attenuates Bone Degeneration in the Zmpste24 Progeria Mouse Model. **2023**, 2023, 1-12 0
- 216 Breath-by-breath measurement of exhaled ammonia by acetone-modifier positive photoionization ion mobility spectrometry via online dilution and purging sampling. **2023**, 0
- 215 Association of PM2.5 Components with Acceleration of Aging: Moderating Role of Sex Hormones. **2023**, 57, 3772-3782 0

- 214 Timeless or tainted? The effects of male ageing on seminal fluid. 11, ○
- 213 Non-canonical autophagy in aging and age-related diseases. 11, ○
- 212 Establishing and Validating an Aging-Related Prognostic Signature in Osteosarcoma. **2023**, 2023, 1-19 ○
- 211 Exercise and ageing impact the kynurenine/tryptophan pathway and acylcarnitine metabolite pools in skeletal muscle of older adults. ○
- 210 Generation of a transparent killifish line through multiplex CRISPR/Cas9mediated gene inactivation. 12, ○
- 209 The Association of Physical Activity Behaviors and Patterns With Aging Acceleration: Evidence From the UK Biobank. ○
- 208 Aging and putative frailty biomarkers are altered by spaceflight. ○
- 207 Analysis of Wild Type and Variant B Cystatin C Interactome in Retinal Pigment Epithelium Cells Reveals Variant B Interacting Mitochondrial Proteins. **2023**, 12, 713 ○
- 206 Mechanisms of ageing: growth hormone, dietary restriction, and metformin. **2023**, 11, 261-281 ○
- 205 The role of reactive oxygen species in bone cell physiology and pathophysiology. **2023**, 101664 ○
- 204 TNF- α contributes to sarcopenia through caspase-8/caspase-3/GSDME-mediated pyroptosis. **2023**, 9, ○
- 203 The Gut Microbial Bile Acid Modulation and Its Relevance to Digestive Health and Diseases. **2023**, ○
- 202 Biological Age Acceleration and Motoric Cognitive Risk Syndrome. ○
- 201 Influence of the Mediterranean Diet on Healthy Aging. **2023**, 24, 4491 ○
- 200 Soluble Epoxide Hydrolase Contributes to Cell Senescence and ER Stress in Aging Mice Colon. **2023**, 24, 4570 ○
- 199 Cell Death and Replicative Senescence in Cancer. **2023**, 153-175 ○
- 198 Circle(s) of Life: The Circadian Clock from Birth to Death. **2023**, 12, 383 ○
- 197 Remission of insomnia in older adults treated with cognitive behavioral therapy for insomnia (CBT-I) reduces p16INK4a gene expression in peripheral blood: secondary outcome analysis from a randomized clinical trial. ○

- 196 Mitochondrial stress and aging: Lessons from *C. elegans*. **2023**, ○
- 195 Link between Energy Investment in Biosynthesis and Proteostasis: Testing the Cost-Quality Hypothesis in Insects. **2023**, 14, 241 ○
- 194 Implications of Hypothalamic Neural Stem Cells on Aging and Obesity-Associated Cardiovascular Diseases. **2023**, 12, 769 ○
- 193 Harnessing Genomic Analysis to Explore the Role of Telomeres in the Pathogenesis and Progression of Diabetic Kidney Disease. **2023**, 14, 609 ○
- 192 Management of Older Adults with Sickle Cell Disease: Considerations for Current and Emerging Therapies. **2023**, 40, 317-334 ○
- 191 Dietary Fruit Red Banana (*Musa acuminata* Red Dacca) as a Potent Antiaging Candidate in *Caenorhabditis elegans*. **2023**, 3, 439-449 ○
- 190 Anti-ageing drugs. **2023**, 12, 57-57 ○
- 189 Developmental Programming-Aging Interactions Have Sex-Specific and Developmental Stage of Exposure Outcomes on Life Course Circulating Corticosterone and Dehydroepiandrosterone (DHEA) Concentrations in Rats Exposed to Maternal Protein-Restricted Diets. **2023**, 15, 1239 ○
- 188 Modeling of senescent cell dynamics predicts a late-life decrease in cancer incidence. **2023**, 16, 609-624 ○
- 187 Assessment of Frailty Index at 66 Years of Age and Association With Age-Related Diseases, Disability, and Death Over 10 Years in Korea. **2023**, 6, e2248995 ○
- 186 Towards AI-driven longevity research: An overview. 4, ○
- 185 Lysosomal control of senescence and inflammation through cholesterol partitioning. **2023**, 5, 398-413 ○
- 184 Panic at the Bile Duct. **2023**, ○
- 183 Skeletal muscle mitochondrial interactome remodeling is linked to functional decline in aged female mice. **2023**, 3, 313-326 ○
- 182 A noncanonical response to replication stress protects genome stability through ROS production, in an adaptive manner. ○
- 181 Sestrin2 as a Protective Shield against Cardiovascular Disease. **2023**, 24, 4880 ○
- 180 Swimming and L-arginine loaded chitosan nanoparticles ameliorates aging-induced neuron atrophy, autophagy marker LC3, GABA and BDNF-TrkB pathway in the spinal cord of rats. **2023**, 475, 621-635 ○
- 179 Frailty among breast cancer survivors: Evidence from Swedish population data. ○

- 178 Cellular liquid-liquid phase separation: Concept, functions, regulations, and detections. ○
- 177 Fibroblast heterogeneity: Keystone of tissue homeostasis and pathology in inflammation and ageing. 14, ○
- 176 Impact of in vivo cyclic reprogramming on the choroid plexus. ○
- 175 Aging Hallmarks and the Role of Oxidative Stress. **2023**, 12, 651 ○
- 174 Impact of Cellular Senescence on Cellular Clocks. **2023**, 105-125 ○
- 173 cGAS-STING pathway as a potential trigger of immunosenescence and inflammaging. 14, ○
- 172 Systematic characterization of chromodomain proteins reveals an H3K9me1/2 reader regulating aging in *C. elegans*. **2023**, 14, ○
- 171 Involvement of p38 MAPK in Leydig cell aging and age-related decline in testosterone. 14, ○
- 170 Tau protein plays a role in the mechanism of cognitive disorders induced by anesthetic drugs. 17, ○
- 169 Epigenetics of Altered Circadian and Sleep Cycle Induced Effects on Aging and Longevity. **2023**, 363-390 ○
- 168 Sleep Hormone Melatonin, Inflammation and Aging. **2023**, 259-276 ○
- 167 The Gengnianchun recipe attenuates insulin resistance-induced diminished ovarian reserve through inhibiting the senescence of granulosa cells. 14, ○
- 166 Moving senolytics closer to the clinic in IPF. **2023**, 90, 104513 ○
- 165 Recent Progress in Understanding the Health Benefits of Curcumin. **2023**, 28, 2418 ○
- 164 Oxidative stress impairs the Nur77-Sirt1 axis resulting in a decline in organism homeostasis during aging. ○
- 163 Using mass spectrometry imaging to visualize age-related subcellular disruption. 10, ○
- 162 Gut Microbiota, an Additional Hallmark of Human Aging and Neurodegeneration. **2023**, ○
- 161 Defective chaperone-mediated autophagy is a hallmark of joint disease in patients with knee osteoarthritis. **2023**, ○

- 160 Mitochondrial haplotype and mito-nuclear matching drive somatic mutation and selection throughout aging. 1
- 159 The nucleolar aberrancies that drive ribosome impairment induced by RNA binding proteins are hallmarks of aging. 0
- 158 Metabolic reprogramming by Acly inhibition using SB-204990 alters glucoregulation and modulates molecular mechanisms associated with aging. **2023**, 6, 0
- 157 Life stressors and immune aging: Protective effects of cognitive reappraisal. **2023**, 110, 212-221 0
- 156 Young Astrocytic Mitochondria Attenuate the Elevated Level of CCL11 in the Aged Mice, Contributing to Cognitive Function Improvement. **2023**, 24, 5187 0
- 155 Secretory Factors from Calcium-Sensing Receptor-Activated SW872 Pre-Adipocytes Induce Cellular Senescence and A Mitochondrial Fragmentation-Mediated Inflammatory Response in HepG2 Cells. **2023**, 24, 5217 0
- 154 Vitamin D, Cellular Senescence and Chronic Kidney Diseases: What Is Missing in the Equation?. **2023**, 15, 1349 0
- 153 Characterizing the lens regeneration process in *Pleurodeles waltl*. **2023**, 0
- 152 The Extracellular Matrix Vitalizer RATM Increased Skin Elasticity by Modulating Mitochondrial Function in Aged Animal Skin. **2023**, 12, 694 0
- 151 *Zingiber officinale* Roscoe Rhizome Extract Exerts Senomorphic and Anti-Inflammatory Activities on Human Endothelial Cells. **2023**, 12, 438 0
- 150 Determination of the autophagic flux in murine and human peripheral blood mononuclear cells. 11, 0
- 149 Aging: Epigenetic modifications. **2023**, 171-209 0
- 148 The Emerging Role of Accelerated Cellular Senescence in Periodontitis. 002203452311545 0
- 147 The Molecular Mechanism of Polyphenols in the Regulation of Ageing Hallmarks. **2023**, 24, 5508 0
- 146 Abl depletion via autophagy mediates the beneficial effects of quercetin against Alzheimer pathology across species. 0
- 145 Integrating the environmental and genetic architectures of mortality and aging. 0
- 144 Cellular rejuvenation: molecular mechanisms and potential therapeutic interventions for diseases. **2023**, 8, 1
- 143 Chronological and Replicative Aging of CD51+/PDGFR β Pulp Stromal Cells. 002203452311580 0

- 142 CNS Ageing in Health and Neurodegenerative Disorders. **2023**, 12, 2255
- 141 MAPKs in the early steps of senescence implemEMTation. 11,
- 140 Among Gerontogens, Heavy Metals Are a Class of Their Own: A Review of the Evidence for Cellular Senescence. **2023**, 13, 500
- 139 mTORC1-Induced Bone Marrow-Derived Mesenchymal Stem Cell Exhaustion Contributes to the Bone Abnormalities in Klotho-Deficient Mice of Premature Aging.
- 138 Senescence-associated transcriptional derepression in subtelomeres is determined in a chromosome-end-specific manner.
- 137 Shared miRNA landscapes of COVID-19 and neurodegeneration confirm neuroinflammation as an important overlapping feature. 16,
- 136 Emerging Therapeutic Approaches to Target the Dark Side of Senescent Cells: New Hopes to Treat Aging as a Disease and to Delay Age-Related Pathologies. **2023**, 12, 915
- 135 Metformin promotes in vitro maturation of oocytes from aged mice by attenuating mitochondrial oxidative stress via SIRT3-dependent SOD2ac. 10,
- 134 Relationships between circulating metabolites and facial skin aging: a Mendelian randomization study. **2023**, 17,
- 133 Aortic Stiffness: A Major Risk Factor for Multimorbidity in the Elderly. **2023**, 12, 2321
- 132 Measuring biological age using a functionally interpretable multi-tissue RNA clock.
- 131 Heterogeneity of Cellular Senescence: Cell Type-Specific and Senescence Stimulus-Dependent Epigenetic Alterations. **2023**, 12, 927
- 130 Preservation of Mitochondrial Health in Liver Ischemia/Reperfusion Injury. **2023**, 11, 948
- 129 An approach to the effects of longevity, sexual maturity, and reproduction on telomere length and oxidative stress in different Psittacidae species. 14,
- 128 Das Geheimnis ewiger Jugend.
- 127 On frailty and accelerated aging during SARS-Cov-2: senescence. **2023**, 35, 907-912
- 126 New Senolysis Approach via AntibodyDrug Conjugate Targeting of the Senescent Cell Marker Apolipoprotein D for Skin Rejuvenation. **2023**, 24, 5857
- 125 Rapid Oral Health Deterioration in Older PeopleA Narrative Review from a Socio-Economic Perspective. **2023**, 12, 2396

- 124 Mitochondria hormesis delays aging and associated diseases in *Caenorhabditis elegans* impacting on key ferroptosis players. **2023**, 26, 106448 ○
- 123 An integrated RNA-proteomic landscape of drug induced senescence in a cancer cell line. ○
- 122 Emerging roles of interferon-stimulated gene-15 in age-related telomere attrition, the DNA damage response, and cardiovascular disease. 11, ○
- 121 Epigenetic clocks and female fertility timeline: A new approach to an old issue?. 11, ○
- 120 Network-level analysis of ageing and its relationship with diseases and tissue regeneration in the mouse liver. **2023**, 13, ○
- 119 Role of T-box transcription factor 3 in gastric cancers. 14, 12-20 ○
- 118 Longevity-Associated Transcription Factor ATF7 Promotes Healthspan by Suppressing Cellular Senescence and Systematic Inflammation. **2022**, 0 ○
- 117 Endothelial Glycocalyx in Aging and Age-related Diseases. **2023**, 0 ○
- 116 Vanillic acid improves stress resistance and substantially extends lifespan in *Caenorhabditis elegans*. ○
- 115 Prenatal environment impacts telomere length in newborn dairy heifers. **2023**, 13, ○
- 114 Long-term dietary folic acid supplementation attenuated aging-induced hippocampus atrophy and promoted glucose uptake in 25-month-old rats with cognitive decline. **2023**, 117, 109328 ○
- 113 Six-Month Synbio[®] Administration Affects Nutritional and Inflammatory Parameters of Older Adults Included in the PROBIOSENIOR Project. **2023**, 11, 801 ○
- 112 A New Landscape of Human Dental Aging: Causes, Consequences, and Intervention Avenues. **2022**, 0 ○
- 111 Extracellular Matrix Dynamics as an Emerging yet Understudied Hallmark of Aging and Longevity. **2022**, 0 ○
- 110 Mitochondria Transplantation from Stem Cell for Mitigating Sarcopenia. **2023**, 0 ○
- 109 Neuronal Prosurvival Role of Ceramide Synthase 2 by Oligodendrocyte-to-Neuron Extracellular Vesicle Transfer. **2023**, 24, 5986 ○
- 108 Role of noncoding RNAs in cardiac ageing. 10, ○
- 107 Turning Back the Clock: A Retrospective Single-Blind Study on Brain Age Change in Response to Nutraceuticals Supplementation vs. Lifestyle Modifications. **2023**, 13, 520 ○

- 106 The Role of cGAS-STING in Age-Related Diseases from Mechanisms to Therapies. **2023**, 0 ○
- 105 The Impact of Glucose-Lowering Strategy on the Risk of Increasing Frailty Severity among 49,519 Patients with Diabetes Mellitus: A Longitudinal Cohort Study. **2023**, 0 ○
- 104 C-Phycocyanin Ameliorates the Senescence of Mesenchymal Stem Cells through ZDHHC5-Mediated Autophagy via PI3K/AKT/mTOR Pathway. **2023**, 0 ○
- 103 Epigenetic aging and PTSD outcomes in the immediate aftermath of trauma. 1-10 ○
- 102 Epidemiology of Aging. **2023**, 1-37 ○
- 101 Effects of Caloric Restriction on Spatial Object Recognition Memory, Hippocampal Neuron Loss and Neuroinflammation in Aged Rats. **2023**, 15, 1572 ○
- 100 Food Peptides for the Nutricosmetic Industry. **2023**, 12, 788 ○
- 99 A Comprehensive Enumeration of the Human Proteostasis Network. 2. Components of the Autophagy-Lysosome Pathway. ○
- 98 Golgi organization is a determinant of stem cell function in the small intestine. ○
- 97 Evolutionary conservation of the fidelity of transcription. **2023**, 14, ○
- 96 Phosphoglycerate dehydrogenase activates PKM2 to phosphorylate histone H3T11 and attenuate cellular senescence. **2023**, 14, ○
- 95 Tissue stretching is a confounding factor for the evaluation of neurodegeneration in the fast-ageing killifish. ○
- 94 Metabolic benefits of 17 β -estradiol in liver are partially mediated by ER α in male mice. ○
- 93 Nutrition and Physical Activity as Modulators of Osteosarcopenic Adiposity: A Scoping Review and Recommendations for Future Research. **2023**, 15, 1619 ○
- 92 Current Insights into the Formulation and Delivery of Therapeutic and Cosmeceutical Agents for Aging Skin. **2023**, 10, 54 ○
- 91 Edad retiniana como biomarcador predictivo del grado de retinopatía diabética. **2023**, ○
- 90 Epigenetic Signatures of Aging: A Comprehensive Study of Biomarker Discovery. **2023**, 12, 11-38 ○
- 89 TFEB -dependent lysosome biogenesis is required for senescence. ○

- 88 Model organism life extending therapeutics modulate diverse nodes in the drug-gene-microbe tripartite human longevity interactome. 1-19 ○
- 87 Necroptosis inhibition counteracts neurodegeneration, memory decline, and key hallmarks of aging, promoting brain rejuvenation. ○
- 86 Potential of Urolithin A to improve joint health. **2023**, 15, 1711-1712 ○
- 85 Senotherapeutics: An emerging approach to the treatment of viral infectious diseases in the elderly. 13, ○
- 84 Telomerase reverse transcriptase and neurodegenerative diseases. 14, ○
- 83 Establishing the contribution of active histone methylation marks to the aging transcriptional landscape of *Drosophila* photoreceptors. **2023**, 13, ○
- 82 How the Disruption of Mitochondrial Redox Signalling Contributes to Ageing. **2023**, 12, 831 ○
- 81 LncRNA TUG1 promotes pulmonary fibrosis progression via up-regulating CDC27 and activating PI3K/Akt/mTOR pathway. **2023**, 18, ○
- 80 Cycloastragenol: A Novel Senolytic Agent That Induces Senescent Cell Apoptosis and Restores Physical Function in TBI-Aged Mice. **2023**, 24, 6554 ○
- 79 Leukocyte telomere length and bipolar disorder risk: evidence from Mendelian randomization analysis. 11, e15129 ○
- 78 Adiponectin deficiency accelerates brain aging via mitochondria-associated neuroinflammation. **2023**, 20, ○
- 77 Recent Applications of Melanin-like Nanoparticles as Antioxidant Agents. **2023**, 12, 863 ○
- 76 *Drosophila melanogaster* as a model to study age and sex differences in brain injury and neurodegeneration after mild head trauma. 17, ○
- 75 Chemical labeling achieves 8-oxo-7,8-dihydroguanine mapping in the microRNA transcriptome. ○
- 74 Targeting mTOR for Anti-Aging and Anti-Cancer Therapy. **2023**, 28, 3157 ○
- 73 Healthy aging: when periodontal health matters. 1-13 ○
- 72 Cellular senescence and the blood-brain barrier: Implications for aging and age-related diseases. 153537022311579 ○
- 71 Mitigation of Cardiovascular Disease and Toxicity through NRF2 Signalling. **2023**, 24, 6723 ○

- 70 Chronic Sleep Disturbances Alters Sleep Structure and Tau Phosphorylation in **APP/PS1** AD Mice and Their Wild-Type Littermates. **2023**, 92, 1341-1355 ○
- 69 Molecular mechanisms of action of metformin: latest advances and therapeutic implications. ○
- 68 Epitranscriptomics: new players in an old game. ○
- 67 Hydroxytyrosol Interference with Inflammaging via Modulation of Inflammation and Autophagy. **2023**, 15, 1774 ○
- 66 Contribution of A-to-I RNA editing, M6A RNA Methylation, and Alternative Splicing to physiological brain aging and neurodegenerative diseases.. **2023**, 111807 ○
- 65 Molecular integrators of stress and aging: the example of FKBP5. ○
- 64 The Effect of Vitamin C and N-Acetylcysteine on Tendon-to-Bone Healing in a Rodent Model of Rotator Cuff Repair. 036354652311607 ○
- 63 Reverse Electron Transport at Mitochondrial Complex I in Ischemic Stroke, Aging, and Age-Related Diseases. **2023**, 12, 895 ○
- 62 Klotho Null Mutation Involvement in Adenosine A2B Receptor-Related Skeletal Muscle Degeneration. **2023**, ○
- 61 Alterations in histology of the aging salivary gland and correlation with the glandular inflammatory microenvironment. **2023**, 26, 106571 ○
- 60 Presbyphagia: Dysphagia in the elderly. 11, 2363-2373 ○
- 59 Association of Race and Poverty Status With DNA MethylationBased Age. **2023**, 6, e236340 ○
- 58 Clay microparticles for the enhancement of bone regeneration: in vitro studies. ○
- 57 Accelerated epigenetic aging and myopenia in young adult cancer survivors. ○
- 56 Advances in biomarkers and diagnostic significance of organ aging. **2023**, ○
- 55 Thymic function and survival at advance ages in nursing home residents from Southern Italy. **2023**, 20, ○
- 54 The Potential Use of Mitochondrial Extracellular Vesicles as Biomarkers or Therapeutical Tools. **2023**, 24, 7005 ○
- 53 Urolithin A Produced by Novel Microbial Fermentation Possesses Anti-aging Effects by Improving Mitophagy and Reducing Reactive Oxygen Species in *Caenorhabditis elegans*. ○

- 52 Cytoplasmic DNAs: Sources, sensing, and roles in the development of lung inflammatory diseases and cancer. 14,
- 51 Ageing-associated changes in transcriptional elongation influence longevity.
- 50 Differences in the post-stroke innate immune response between young and old.
- 49 Wearable-ome meets epigenome: A novel approach to measuring biological age with wearable devices.
- 48 Endothelial Cell Dysfunction and Increased Cardiovascular Risk in Patients With Chronic Kidney Disease. **2023**, 132, 970-992
- 47 The Aryl Hydrocarbon Receptor, Epigenetics and the Aging Process.
- 46 Dysfunction of the neurovascular unit in brain aging. **2023**, 37, 1
- 45 60 years of healthy aging: On definitions, biomarkers, scores and challenges. **2023**, 88, 101934
- 44 Chronological Age and DNA Damage Accumulation in Blood Mononuclear Cells: A Linear Association in Healthy Humans after 50 Years of Age. **2023**, 24, 7148
- 43 Herbal/Natural Compounds Resist Hallmarks of Brain Aging: From Molecular Mechanisms to Therapeutic Strategies. **2023**, 12, 920
- 42 Understanding HAT1: A Comprehensive Review of Noncanonical Roles and Connection with Disease. **2023**, 14, 915
- 41 Development of continuous assessment of muscle quality and frailty in older subjects using multi-parametric omics based on combined ultrasound and blood biomarkers: a study protocol for a cluster randomised controlled trial.
- 40 Healthy Aging. **2023**, 91-104
- 39 Physical Activity as a Determinant of Healthy Aging. **2023**, 159-167
- 38 Characterization of the HDAC/PI3K inhibitor CUDC-907 as a novel senolytic. **2023**, 15, 2373-2394
- 37 Morphological Characteristics of Young and Old Murine Hematopoietic Stem Cell Niches, as Modeled In Vitro. **2023**, 2023, 1-10
- 36 DRAG in situ barcoding reveals an increased number of HSPCs contributing to myelopoiesis with age. **2023**, 14,
- 35 Therapeutic potential of nitric oxide in vascular aging due to the promotion of angiogenesis.

- 34 Overcoming the Limitations of CRISPR-Cas9 Systems in *Saccharomyces cerevisiae*: Off-Target Effects, Epigenome, and Mitochondrial Editing. **2023**, 11, 1040 ○
- 33 Associations between cardiorespiratory fitness and lifestyle-related factors with DNA methylation-based aging clocks in older men: WASEDA⁸ Health Study. ○
- 32 Whole-transcriptome sequencing analysis reveal mechanisms of Yiqi Huoxue Yangyin (YHY) decoction in ameliorating D-gal-induced cardiac aging. ○
- 31 Cancer History Avoids the Increase of Senescence Markers in Peripheral Cells of Amnesic Mild Cognitive Impaired Patients. **2023**, 24, 7364 ○
- 30 Growing old together: What we know about the influence of diet and exercise on the aging host's gut microbiome. 5, ○
- 29 Can Epigenetics Predict Drug Efficiency in Mental Disorders?. **2023**, 12, 1173 ○
- 28 Tetrahydroxystilbene Glucoside Attenuates Oxidative Stress-Induced Aging by Regulating Oxidation Resistance and Inflammation in Larval Zebrafish. **2023**, 20, 55-66 ○
- 27 Oxidative stress and inflammation: the root causes of aging. 127-156 ○
- 26 Aging and Cancer. **2023**, 479-488 ○
- 25 Retinal age as a predictive biomarker of the diabetic retinopathy grade. **2023**, ○
- 24 Biomarkers of aging. ○
- 23 Multi-omic underpinnings of epigenetic aging and human longevity. **2023**, 14, ○
- 22 INFLAMMATION, MENOPAUSE, AND WOMEN'S HEALTH: A RHEUMATOLOGICAL PERSPECTIVE. **2023**, 2, 16-22 ○
- 21 Sarcopenia, Cognitive Function, and the Heterogeneity in Aging. ○
- 20 SMOOTH protocol: A pilot randomised prospective intra-patient single-blinded observational study for examining the mechanistic basis of ablative fractional carbon dioxide laser therapy in treating hypertrophic scarring. ○
- 19 Impact of aging on immune function in the pathogenesis of pulmonary diseases: Potential for therapeutic targets. ○
- 18 How can we modulate aging through nutrition and physical exercise? An epigenetic approach. ○
- 17 Connecting the Dots: Neuronal Senescence, Stress Granules, and Neurodegeneration. **2023**, 147437 ○

- 16 Watching the human retina breath in real time and the slowing of mitochondrial respiration with age. **2023**, 13,
- 15 Pathophysiological Effects of Contemporary Lifestyle on Evolutionary-Conserved Survival Mechanisms in Polycystic Ovary Syndrome. **2023**, 13, 1056
- 14 Identification of telomere-related genes associated with aging-related molecular clusters and the construction of a diagnostic model in Alzheimer's disease based on a bioinformatic analysis. **2023**, 106922
- 13 Common factors among three types of cells aged in mice.
- 12 Epigenetic modifiers as game changers for healthy ageing.
- 11 In Vitro Probiotic Properties and In Vivo Anti-Ageing Effects of Lactoplantibacillus plantarum PFA2018AU Strain Isolated from Carrots on Caenorhabditis elegans. **2023**, 11, 1087
- 10 Aging microglia. **2023**, 80,
- 9 Polybrominated diphenyl ethers isolated from the marine sponge Lendenfeldia chondrodes collected in Mayotte. 1-10
- 8 Hematopoietic Transfer of the Anti-Cancer and Lifespan-Extending Capabilities of A Genetically Engineered Blood System.
- 7 Metabolomics analysis of dietary restriction results in a longer lifespan due to alters of amino acid levels in larval hemolymph of Bombyx mori. **2023**, 13,
- 6 ROS-Induced Mitochondrial Dysfunction in CD4 T Cells from ART-Controlled People Living with HIV. **2023**, 15, 1061
- 5 Characterizing expression changes in noncoding RNAs during aging and heterochronic parabiosis across mouse tissues.
- 4 The role of population-level preventive care for brain health in ageing. **2023**,
- 3 Resilience, aging, and response to radiation exposure (RARRE) in nonhuman primates: a resource review.
- 2 Co-occurrence of injection drug use and hepatitis C increases epigenetic age acceleration that contributes to all-cause mortality among people living with HIV. **2023**, 18,
- 1 Hallmarks of cardiovascular ageing.