Senescent cells harbour features of the cancer epigenon

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Citation Report

#	Article	IF	Citations
1	DNA methylation in gastric cancer, related toHelicobacter pyloriand Epstein-Barr virus. World Journal of Gastroenterology, 2014, 20, 3916.	1.4	89
2	Specifying peripheral heterochromatin during nuclear lamina reassembly. Nucleus, 2014, 5, 32-39.	0.6	31
3	HIRA orchestrates a dynamic chromatin landscape in senescence and is required for suppression of neoplasia. Genes and Development, 2014, 28, 2712-2725.	2.7	128
4	Pioneer transcription factors in cell reprogramming. Genes and Development, 2014, 28, 2679-2692.	2.7	541
5	Physiological and pathological consequences of cellular senescence. Cellular and Molecular Life Sciences, 2014, 71, 4373-4386.	2.4	182
6	Next generation sequencing and de novo transcriptomics to study gene evolution. Plant Methods, 2014, 10, 34.	1.9	23
7	Matrix elasticity, replicative senescence and DNA methylation patterns of mesenchymal stem cells. Biomaterials, 2014, 35, 6351-6358.	5.7	62
8	The epigenetic tracks of aging. Biological Chemistry, 2014, 395, 1307-1314.	1.2	53
9	Common features of chromatin in aging and cancer: cause or coincidence?. Trends in Cell Biology, 2014, 24, 686-694.	3.6	62
10	Immortalization of T-Cells Is Accompanied by Gradual Changes in CpG Methylation Resulting in a Profile Resembling a Subset of T-Cell Leukemias. Neoplasia, 2014, 16, 606-615.	2.3	14
11	DNMT inhibitors reverse a specific signature of aberrant promoter DNA methylation and associated gene silencing in AML. Genome Biology, 2014, 15, 406.	3.8	56
12	DNA methylation accumulation and its predetermination of future cancer phenotypes. Journal of Biochemistry, 2014, 156, 63-72.	0.9	15
13	Cell Cycle Control. Methods in Molecular Biology, 2014, , .	0.4	9
15	Chromatin maintenance and dynamics in senescence: a spotlight on SAHF formation and the epigenome of senescent cells. Chromosoma, 2014, 123, 423-436.	1.0	38
16	The senescent methylome and its relationship with cancer, ageing and germline genetic variation in humans. Genome Biology, 2015, 16, 194.	3.8	40
17	A gene expression signature identifying transient DNMT1 depletion as a causal factor of cancer-germline gene activation in melanoma. Clinical Epigenetics, 2015, 7, 114.	1.8	17
18	Age-Dependent Decrease of DNA Hydroxymethylation in Human T Cells. Journal of Clinical and Experimental Hematopathology: JCEH, 2015, 55, 1-6.	0.3	25
19	Stop relaxing: How DNA damage-induced chromatin compaction may affect epigenetic integrity and disease. Molecular and Cellular Oncology, 2015, 2, e970952.	0.3	3

#	Article	IF	Citations
20	Whole-genome fingerprint of the DNA methylome during human B cell differentiation. Nature Genetics, 2015, 47, 746-756.	9.4	278
21	Aging-Induced Stem Cell Mutations as Drivers for Disease and Cancer. Cell Stem Cell, 2015, 16, 601-612.	5.2	149
22	Global Reorganization of the Nuclear Landscape in Senescent Cells. Cell Reports, 2015, 10, 471-483.	2.9	282
23	Rapid reprogramming of epigenetic and transcriptional profiles in mammalian culture systems. Genome Biology, 2015, 16, 11.	3.8	137
24	Phenotype Specific Analyses Reveal Distinct Regulatory Mechanism for Chronically Activated p53. PLoS Genetics, 2015, 11, e1005053.	1.5	47
25	Unfolding the story of chromatin organization in senescent cells. Nucleus, 2015, 6, 254-260.	0.6	28
26	Replicative senescence is associated with nuclear reorganization and with DNA methylation at specific transcription factor binding sites. Clinical Epigenetics, 2015, 7, 19.	1.8	51
27	Age and sun exposure-related widespread genomic blocks of hypomethylation in nonmalignant skin. Genome Biology, 2015, 16, 80.	3.8	111
28	Cellular senescence: from growth arrest to immunogenic conversion. Age, 2015, 37, 27.	3.0	76
29	Controlled induction of DNA double-strand breaks in the mouse liver induces features of tissue ageing. Nature Communications, 2015, 6, 6790.	5.8	90
30	Overexpression of the microRNA miRâ€433 promotes resistance to paclitaxel through the induction of cellular senescence in ovarian cancer cells. Cancer Medicine, 2015, 4, 745-758.	1.3	132
31	In vitro evidence for senescent multinucleated melanocytes as a source for tumor-initiating cells. Cell Death and Disease, 2015, 6, e1711-e1711.	2.7	67
32	Molecular turnover, the H3.3 dilemma and organismal aging (hypothesis). Aging Cell, 2015, 14, 322-333.	3.0	13
33	Epigenetic regulation of ageing: linking environmental inputs to genomic stability. Nature Reviews Molecular Cell Biology, 2015, 16, 593-610.	16.1	515
35	Sp1 and the â€˜hallmarks of cancerâ€™. FEBS Journal, 2015, 282, 224-258.	2.2	405
36	Do ageâ€associated DNA methylation changes increase the risk of malignant transformation?. BioEssays, 2015, 37, 20-24.	1.2	22
37	Effects of quetiapine on DNA methylation in neuroblastoma cells. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2015, 56, 117-121.	2.5	26
38	ROS, Cell Senescence, and Novel Molecular Mechanisms in Aging and Age-Related Diseases. Oxidative Medicine and Cellular Longevity, 2016, 2016, 1-18.	1.9	661

#	Article	IF	Citations
39	Cellular Senescence as the Causal Nexus of Aging. Frontiers in Genetics, 2016, 7, 13.	1.1	110
40	Mapping H4K20me3 onto the chromatin landscape of senescent cells indicates a function in control of cell senescence and tumor suppression through preservation of genetic and epigenetic stability. Genome Biology, 2016, 17, 158.	3.8	65
41	DNA-methylation changes in replicative senescence and aging: two sides of the same coin?. Epigenomics, 2016, 8, 1-3.	1.0	11
42	A CDK4/6-Dependent Epigenetic Mechanism Protects Cancer Cells from PML-induced Senescence. Cancer Research, 2016, 76, 3252-3264.	0.4	51
43	Reprint of â€œDNA, the central molecule of agingâ€• Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2016, 788, 25-31.	0.4	2
44	Old cells, new tricks: chromatin structure in senescence. Mammalian Genome, 2016, 27, 320-331.	1.0	40
45	The Chromatin Landscape of Cellular Senescence. Trends in Genetics, 2016, 32, 751-761.	2.9	103
46	Epigenetic Mechanisms of Longevity and Aging. Cell, 2016, 166, 822-839.	13.5	649
47	The epigenome in Alzheimerâ€™s disease: current state and approaches for a new path to gene discovery and understanding disease mechanism. Acta Neuropathologica, 2016, 132, 503-514.	3.9	44
48	Epigenetic Modifications upon Senescence of Mesenchymal Stem Cells. Current Stem Cell Reports, 2016, 2, 248-254.	0.7	5
49	Distinct Trends of DNA Methylation Patterning in the Innate and Adaptive Immune Systems. Cell Reports, 2016, 17, 2101-2111.	2.9	54
50	Tumor Promoting Aspects of Senescence in Cancer Progression. Cancer Investigation, 2016, 34, 452-458.	0.6	2
51	DNA methylation is stable during replication and cell cycle arrest. Scientific Reports, 2016, 5, 17911.	1.6	44
52	The identification of age-associated cancer markers by an integrative analysis of dynamic DNA methylation changes. Scientific Reports, 2016, 6, 22722.	1.6	31
53	Contributions of Telomere Biology to Human Age-Related Disease. , 2016, , 205-239.		2
54	Reorganization of chromosome architecture in replicative cellular senescence. Science Advances, 2016, 2, e1500882.	4.7	122
55	The DNA Methylomes of Cancer. , 2016, , 183-207.		1
56	Cellular senescence and tumor promotion: Is aging the key?. Biochimica Et Biophysica Acta: Reviews on Cancer, 2016, 1865, 155-167.	3.3	67

#	Article	IF	Citations
57	A gain-of-function senescence bypass screen identifies the homeobox transcription factor DLX2 as a regulator of ATMâ€“p53 signaling. Genes and Development, 2016, 30, 293-306.	2.7	24
58	DNA, the central molecule of aging. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2016, 786, 1-7.	0.4	31
59	Histone demethylase JMJD3 at the intersection of cellular senescence and cancer. Biochimica Et Biophysica Acta: Reviews on Cancer, 2016, 1865, 237-244.	3.3	25
60	Metabolic Signaling to Chromatin. Cold Spring Harbor Perspectives in Biology, 2016, 8, a019463.	2.3	110
61	Fibroblast activation and senescence in oral cancer. Journal of Oral Pathology and Medicine, 2017, 46, 82-88.	1.4	34
63	Contribution of Retrotransposable Elements to Aging. , 2017, , 297-321.		3
64	Cellular senescence in osteoarthritis pathology. Aging Cell, 2017, 16, 210-218.	3.0	243
65	The SETD8/PR-Set7 Methyltransferase Functions as a Barrier to Prevent Senescence-Associated Metabolic Remodeling. Cell Reports, 2017, 18, 2148-2161.	2.9	58
66	Detecting senescence: a new method for an old pigment. Aging Cell, 2017, 16, 432-434.	3.0	30
67	Oct4 transcriptionally regulates the expression of long non-coding RNAs NEAT1 and MALAT1 to promote lung cancer progression. Molecular Cancer, 2017, 16, 104.	7.9	205
68	The PPARÎ³â€“SETD8 axis constitutes an epigenetic, p53â€“independent checkpoint on p21â€–mediated cellular senescence. Aging Cell, 2017, 16, 797-813.	3.0	21
69	UHRF1 is required for basal stem cell proliferation in response to airway injury. Cell Discovery, 2017, 3, 17019.	3.1	27
70	Modeling complex patterns of differential DNA methylation that associate with gene expression changes. Nucleic Acids Research, 2017, 45, 5100-5111.	6.5	46
71	Barriers to Infection of Human Cells by Feline Leukemia Virus: Insights into Resistance to Zoonosis. Journal of Virology, 2017, 91, .	1.5	10
72	Aging: Somatic Mutations, Epigenetic Drift and Gene Dosage Imbalance. Trends in Cell Biology, 2017, 27, 299-310.	3.6	27
73	Pan-cancer analysis reveals presence of pronounced DNA methylation drift in CpG island methylator phenotype clusters. Epigenomics, 2017, 9, 1341-1352.	1.0	12
74	Tumor cell senescence response produces aggressive variants. Cell Death Discovery, 2017, 3, 17049.	2.0	94
75	Transcription-associated events affecting genomic integrity. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20160288.	1.8	22

#	Article	IF	Citations
76	Massive reshaping of genomeâ€“nuclear lamina interactions during oncogene-induced senescence. Genome Research, 2017, 27, 1634-1644.	2.4	66
77	DNA Methylation Changes in Cancer. Cancer Drug Discovery and Development, 2017, , 75-96.	0.2	1
78	The Molecular Basis of DNA Methylation. Cancer Drug Discovery and Development, 2017, , 19-51.	0.2	2
79	Epigenetic regulation in cell senescence. Journal of Molecular Medicine, 2017, 95, 1257-1268.	1.7	37
80	Epigenetic mechanisms during ageing and neurogenesis as novel therapeutic avenues in human brain disorders. Clinical Epigenetics, 2017, 9, 67.	1.8	108
81	Senescenceâ€associated <scp>DNA</scp> methylation is stochastically acquired in subpopulations of mesenchymal stem cells. Aging Cell, 2017, 16, 183-191.	3.0	70
82	Epigenetic Basis of Cellular Senescence and Its Implications in Aging. Genes, 2017, 8, 343.	1.0	42
83	3D Nuclear Architecture and Epigenetic Memories: Regulators of Phenotypic Plasticity in Development, Aging and Cancer. , 2017, , 417-460.		2
84	Distinct chromatin signatures of DNA hypomethylation in aging and cancer. Aging Cell, 2018, 17, e12744.	3.0	72
85	Gene expression hallmarks of cellular ageing. Biogerontology, 2018, 19, 547-566.	2.0	113
86	Models of epigenetic age capture patterns of DNA methylation in glioma associated with molecular subtype, survival, and recurrence. Neuro-Oncology, 2018, 20, 942-953.	0.6	31
87	Cytosine modifications exhibit circadian oscillations that are involved in epigenetic diversity and aging. Nature Communications, 2018, 9, 644.	5.8	59
88	In medio stat virtus : unanticipated consequences of telomere dysequilibrium. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20160444.	1.8	15
89	Oxidation Products of 5-Methylcytosine are Decreased in Senescent Cells and Tissues of Progeroid Mice. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2018, 73, 1003-1009.	1.7	8
90	DNA Methylation Patterns Separate Senescence from Transformation Potential and Indicate Cancer Risk. Cancer Cell, 2018, 33, 309-321.e5.	7.7	84
91	Revisiting the genomic hypomethylation hypothesis of aging. Annals of the New York Academy of Sciences, 2018, 1418, 69-79.	1.8	72
92	MeCP2-mediated epigenetic regulation in senescent endothelial progenitor cells. Stem Cell Research and Therapy, 2018, 9, 87.	2.4	23
93	HMGB2 Loss upon Senescence Entry Disrupts Genomic Organization and Induces CTCF Clustering across Cell Types. Molecular Cell, 2018, 70, 730-744.e6.	4.5	164

#	Article	IF	Citations
94	PIWI-piRNA pathway: Setting the pace of aging by reducing DNA damage. Mechanisms of Ageing and Development, 2018, 173, 29-38.	2.2	33
95	Senescent human hematopoietic progenitors show elevated expression of transposable elements and inflammatory genes. Experimental Hematology, 2018, 62, 33-38.e6.	0.2	18
96	Epigenetics in Alzheimerâ€™s Disease: Perspective of DNA Methylation. Molecular Neurobiology, 2018, 55, 1026-1044.	1.9	96
97	Centenarians as a model to discover genetic and epigenetic signatures of healthy ageing. Mechanisms of Ageing and Development, 2018, 174, 95-102.	2.2	48
98	Charting the dynamic epigenome during B-cell development. Seminars in Cancer Biology, 2018, 51, 139-148.	4.3	22
99	Replication Stress Shapes a Protective Chromatin Environment across Fragile Genomic Regions. Molecular Cell, 2018, 69, 36-47.e7.	4.5	75
100	The senescent cell epigenome. Aging, 2018, 10, 3590-3609.	1.4	54
101	The epigenetics of inflammaging: The contribution of age-related heterochromatin loss and locus-specific remodelling and the modulation by environmental stimuli. Seminars in Immunology, 2018, 40, 49-60.	2.7	29
102	Methylome of human senescent hematopoietic progenitors. Experimental Hematology and Oncology, 2018, 7, 32.	2.0	5
103	Biomedical Research in Aging. , 2018, , 25-54.		0
104	Aging Research - Methodological Issues. , 2018, , .		3
105	Polyamine Metabolism and Gene Methylation in Conjunction with One-Carbon Metabolism. International Journal of Molecular Sciences, 2018, 19, 3106.	1.8	70
106	Age-related DNA methylation changes are tissue-specific with ELOVL2 promoter methylation as exception. Epigenetics and Chromatin, 2018, 11, 25.	1.8	130
107	Cardiac ageing: extrinsic and intrinsic factors in cellular renewal and senescence. Nature Reviews Cardiology, 2018, 15, 523-542.	6.1	103
109	Abnormal Epigenetic Regulation of Immune System during Aging. Frontiers in Immunology, 2018, 9, 197.	2.2	65
110	Tracing the path of cancer initiation: the AA protein-based model for cancer genesis. BMC Cancer, 2018, 18, 831.	1.1	6
111	Unveiling epigenetic regulation in cancer, aging, and rejuvenation with inÂvivo reprogramming technology. Cancer Science, 2018, 109, 2641-2650.	1.7	15
112	Tissue-specific DNA methylation loss during ageing and carcinogenesis is linked to chromosome structure, replication timing and cell division rates. Nucleic Acids Research, 2018, 46, 7022-7039.	6.5	33

#	Article	IF	Citations
113	The ING1a model of rapid cell senescence. Mechanisms of Ageing and Development, 2019, 177, 109-117.	2.2	7
114	Paradoxical association of TET loss of function with genome-wide DNA hypomethylation. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16933-16942.	3.3	81
115	Expansion and Cell-Cycle Arrest: Common Denominators of Cellular Senescence. Trends in Biochemical Sciences, 2019, 44, 996-1008.	3.7	71
116	Cellular Senescence: Defining a Path Forward. Cell, 2019, 179, 813-827.	13.5	1,551
117	Experimental identification of cancer driver alterations in the era of panâ€¢cancer genomics. Cancer Science, 2019, 110, 3622-3629.	1.7	15
118	Short-term gain, long-term pain: the senescence life cycle and cancer. Genes and Development, 2019, 33, 127-143.	2.7	64
119	DNA methylation in senescence, aging and cancer. Oncoscience, 2019, 6, 291-293.	0.9	36
120	MethCP: Differentially Methylated Region Detection with Change Point Models. Lecture Notes in Computer Science, 2019, , 68-84.	1.0	0
121	Dynamics and Mechanisms of DNA Methylation Reprogramming. , 2019, , 19-45.		0
122	Human aging DNA methylation signatures are conserved but accelerated in cultured fibroblasts. Epigenetics, 2019, 14, 961-976.	1.3	36
123	The Link Between Epigenetic Clocks for Aging and Senescence. Frontiers in Genetics, 2019, 10, 303.	1.1	44
124	Lamina Associated Domains and Gene Regulation in Development and Cancer. Cells, 2019, 8, 271.	1.8	55
125	Functional screening to identify senescence regulators in cancer. Current Opinion in Genetics and Development, 2019, 54, 17-24.	1.5	5
126	Senolytics and senostatics as adjuvant tumour therapy. EBioMedicine, 2019, 41, 683-692.	2.7	136
127	Genomic Reorganization of Lamin-Associated Domains in Cardiac Myocytes Is Associated With Differential Gene Expression and DNA Methylation in Human Dilated Cardiomyopathy. Circulation Research, 2019, 124, 1198-1213.	2.0	72
128	Adult Cardiac Stem Cell Aging: A Reversible Stochastic Phenomenon?. Oxidative Medicine and Cellular Longevity, 2019, 2019, 1-19.	1.9	31
129	The Alteration of CTNNBIP1 in Lung Cancer. International Journal of Molecular Sciences, 2019, 20, 5684.	1.8	12
130	Fanconi anemia proteins counteract the implementation of the oncogene-induced senescence program. Scientific Reports, 2019, 9, 17024.	1.6	14

#	Article	IF	Citations
131	DNA methylation aging clocks: challenges and recommendations. Genome Biology, 2019, 20, 249.	3.8	552
132	Involvement of condensin in cellular senescence through gene regulation and compartmental reorganization. Nature Communications, 2019, 10, 5688.	5.8	42
133	The dynamic nature of senescence in cancer. Nature Cell Biology, 2019, 21, 94-101.	4.6	394
134	Spermine and gene methylation: a mechanism of lifespan extension induced by polyamine-rich diet. Amino Acids, 2020, 52, 213-224.	1.2	23
135	Genetic and epigenetic Mullerâ€™s ratchet as a mechanism of frailty and morbidity during aging: a demographic genetic model. Human Genetics, 2020, 139, 409-420.	1.8	6
136	Epigenetic regulation of miR-29a/miR-30c/DNMT3A axis controls SOD2 and mitochondrial oxidative stress in human mesenchymal stem cells. Redox Biology, 2020, 37, 101716.	3.9	34
137	Expression of DNA Methyltransferase 1 Is a Hallmark of Melanoma, Correlating with Proliferation and Response to B-Raf and Mitogen-Activated Protein Kinase Inhibition in Melanocytic Tumors. American Journal of Pathology, 2020, 190, 2155-2164.	1.9	8
138	Mini-Review on Lipofuscin and Aging: Focusing on The Molecular Interface, The Biological Recycling Mechanism, Oxidative Stress, and The Gut-Brain Axis Functionality. Medicina (Lithuania), 2020, 56, 626.	0.8	8
139	Capturing complex epigenetic phenomena through human multicellular systems. Current Opinion in Biomedical Engineering, 2020, 16, 34-41.	1.8	1
140	Identification and Comprehensive Validation of a DNA Methylation-Driven Gene-Based Prognostic Model for Clear Cell Renal Cell Carcinoma. DNA and Cell Biology, 2020, 39, 1799-1812.	0.9	11
141	Large-Scale Topological Changes Restrain Malignant Progression in Colorectal Cancer. Cell, 2020, 182, 1474-1489.e23.	13.5	126
142	Epigenetics and metabolism at the crossroads of stress-induced plasticity, stemness and therapeutic resistance in cancer. Theranostics, 2020, 10, 6261-6277.	4.6	30
143	Development and Validation of a Prognostic Nomogram for Gastric Cancer Based on DNA Methylation-Driven Differentially Expressed Genes. International Journal of Biological Sciences, 2020, 16, 1153-1165.	2.6	45
144	MethCP: Differentially Methylated Region Detection with Change Point Models. Journal of Computational Biology, 2020, 27, 458-471.	0.8	6
145	Transient DNMT3L Expression Reinforces Chromatin Surveillance to Halt Senescence Progression in Mouse Embryonic Fibroblast. Frontiers in Cell and Developmental Biology, 2020, 8, 103.	1.8	12
146	4D Genome Rewiring during Oncogene-Induced and Replicative Senescence. Molecular Cell, 2020, 78, 522-538.e9.	4.5	107
147	Single-cell analysis of clonal maintenance of transcriptional and epigenetic states in cancer cells. Nature Genetics, 2020, 52, 709-718.	9.4	66
148	Targeting cellular senescence in cancer and aging: roles of p53 and its isoforms. Carcinogenesis, 2020, 41, 1017-1029.	1.3	43

#	Article	IF	Citations
149	Cancer Stem Cell-Inducing Media Activates Senescence Reprogramming in Fibroblasts. Cancers, 2020, 12, 1745.	1.7	13
150	Small extracellular vesicles deliver miRâ€21 and miRâ€217 as proâ€senescence effectors to endothelial cells. Journal of Extracellular Vesicles, 2020, 9, 1725285.	5.5	104
151	miR-142 induces accumulation of reactive oxygen species (ROS) by inhibiting pexophagy in aged bone marrow mesenchymal stem cells. Scientific Reports, 2020, 10, 3735.	1.6	21
152	Underestimated effect of intragenic HIV-1 DNA methylation on viral transcription in infected individuals. Clinical Epigenetics, 2020, 12, 36.	1.8	13
153	The Histone Code of Senescence. Cells, 2020, 9, 466.	1.8	45
154	DNMT3B Oncogenic Activity in Human Intestinal Cancer Is Not Linked to CIMP or BRAFV600E Mutation. IScience, 2020, 23, 100838.	1.9	4
155	Insights from In Vivo Studies of Cellular Senescence. Cells, 2020, 9, 954.	1.8	21
156	Genome-wide Profiling Identifies DNA Methylation Signatures of Aging in Rod Photoreceptors Associated with Alterations in Energy Metabolism. Cell Reports, 2020, 31, 107525.	2.9	20
157	The Mullerâ€™s Ratchet and Aging. Trends in Genetics, 2020, 36, 395-402.	2.9	12
158	Senescence in Post-Mitotic Cells: A Driver of Aging?. Antioxidants and Redox Signaling, 2021, 34, 308-323.	2.5	117
159	Cellular senescence in ageing: from mechanisms to therapeutic opportunities. Nature Reviews Molecular Cell Biology, 2021, 22, 75-95.	16.1	812
160	Metabolic Regulator IAPP (Amylin) Is Required for BRAF and RAS Oncogene-Induced Senescence. Molecular Cancer Research, 2021, 19, 874-885.	1.5	2
161	Mitotic inheritance of DNA methylation: more than just copy and paste. Journal of Genetics and Genomics, 2021, 48, 1-13.	1.7	13
162	DNA methylation and histone variants in aging and cancer. International Review of Cell and Molecular Biology, 2021, 364, 1-110.	1.6	18
163	Human iPSC-Based Modeling of Central Nerve System Disorders for Drug Discovery. International Journal of Molecular Sciences, 2021, 22, 1203.	1.8	26
164	Noncoding RNAs and Epigenetic Regulation in Aging. , 2021, , 348-363.		0
166	ATF3 drives senescence by reconstructing accessible chromatin profiles. Aging Cell, 2021, 20, e13315.	3.0	38
167	Implementing Precision Medicine in Human Frailty through Epigenetic Biomarkers. International Journal of Environmental Research and Public Health, 2021, 18, 1883.	1.2	5

#	Article	IF	Citations
169	The functional impact of nuclear reorganization in cellular senescence. Briefings in Functional Genomics, 2022, 21, 24-34.	1.3	21
170	Interplay between genome organization and epigenomic alterations of pericentromeric DNA in cancer. Journal of Genetics and Genomics, 2021, 48, 184-197.	1.7	7
171	Transcriptome Analysis Identifies Novel Mechanisms Associated with the Antitumor Effect of Chitosan-Stabilized Selenium Nanoparticles. Pharmaceutics, 2021, 13, 356.	2.0	8
172	Cellular senescence: Silent operator and therapeutic target in cancer. IUBMB Life, 2021, 73, 530-542.	1.5	6
173	Mechanisms of Cellular Senescence: Cell Cycle Arrest and Senescence Associated Secretory Phenotype. Frontiers in Cell and Developmental Biology, 2021, 9, 645593.	1.8	608
174	uhrf1 and dnmt1 Loss Induces an Immune Response in Zebrafish Livers Due to Viral Mimicry by Transposable Elements. Frontiers in Immunology, 2021, 12, 627926.	2.2	17
175	Beyond DNA repair and chromosome instabilityâ€"Fanconi anaemia as a cellular senescence-associated syndrome. Cell Death and Differentiation, 2021, 28, 1159-1173.	5.0	26
176	Loss of p16: A Bouncer of the Immunological Surveillance?. Life, 2021, 11, 309.	1.1	10
177	Senescence mechanisms and targets in the heart. Cardiovascular Research, 2022, 118, 1173-1187.	1.8	86
178	Interphase Chromosomes in Replicative Senescence: Chromosome Positioning as a Senescence Biomarker and the Lack of Nuclear Motor-Driven Chromosome Repositioning in Senescent Cells. Frontiers in Cell and Developmental Biology, 2021, 9, 640200.	1.8	2
179	Evidence and perspectives of cell senescence in neurodegenerative diseases. Biomedicine and Pharmacotherapy, 2021, 137, 111327.	2.5	52
180	The genomic loci of specific human tRNA genes exhibit ageing-related DNA hypermethylation. Nature Communications, 2021, 12, 2655.	5.8	10
181	DNA methylation changes during long-term in vitro cell culture are caused by epigenetic drift. Communications Biology, 2021, 4, 598.	2.0	27
182	Understanding the Impact of Industrial Stress Conditions on Replicative Aging in Saccharomyces cerevisiae. Frontiers in Fungal Biology, 2021, 2, .	0.9	12
183	The loss of heterochromatin is associated with multiscale three-dimensional genome reorganization and aberrant transcription during cellular senescence. Genome Research, 2021, 31, 1121-1135.	2.4	36
184	Pericentromeric noncoding RNA changes DNA binding of CTCF and inflammatory gene expression in senescence and cancer. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	38
185	Identification and Characterization of Senescence Phenotype in Lung Adenocarcinoma with High Drug Sensitivity. American Journal of Pathology, 2021, 191, 1966-1973.	1.9	4
186	Evaluating causality of cellular senescence in non-alcoholic fatty liver disease. JHEP Reports, 2021, 3, 100301.	2.6	30

#	Article	IF	Citations
187	More than causing (epi)genomic instability: emerging physiological implications of transposable element modulation. Journal of Biomedical Science, 2021, 28, 58.	2.6	12
188	The role of retrotransposable elements in ageing and age-associated diseases. Nature, 2021, 596, 43-53.	13.7	156
189	Cellular Plasticity: A Route to Senescence Exit and Tumorigenesis. Cancers, 2021, 13, 4561.	1.7	32
190	The redox-senescence axis and its therapeutic targeting. Redox Biology, 2021, 45, 102032.	3.9	34
191	Development and Validation of a Prognostic Nomogram Based on DNA Methylation-Driven Genes for Patients With Ovarian Cancer. Frontiers in Genetics, 2021, 12, 675197.	1.1	4
193	Detecting Senescence: Methods and Approaches. Methods in Molecular Biology, 2014, 1170, 425-445.	0.4	10
194	Senescence: A program in the road to cell elimination and cancer. Seminars in Cancer Biology, 2022, 81, 48-53.	4.3	12
200	Epigenetic Aging Signatures Are Coherently Modified in Cancer. PLoS Genetics, 2015, 11, e1005334.	1.5	99
201	Nucleolus association of chromosomal domains is largely maintained in cellular senescence despite massive nuclear reorganisation. PLoS ONE, 2017, 12, e0178821.	1.1	96
202	Meeting Report: International Symposium on the Genetics of Aging and Life History II. Aging, 2015, 7, 362-369.	1.4	2
203	Reversal of phenotypes of cellular senescence by pan-mTOR inhibition. Aging, 2016, 8, 231-244.	1.4	89
204	Induction, regulation and roles of neural adhesion molecule L1CAM in cellular senescence. Aging, 2018, 10, 434-462.	1.4	14
205	Metronomic topotecan impedes tumor growth ofMYCN-amplified neuroblastoma cellsin vitroandin vivoby therapy induced senescence. Oncotarget, 2016, 7, 3571-3586.	0.8	39
206	Alzheimerâ€™s Disorder: Epigenetic Connection and Associated Risk Factors. Current Neuropharmacology, 2020, 18, 740-753.	1.4	47
207	Metformin: Sentinel of the Epigenetic Landscapes That Underlie Cell Fate and Identity. Biomolecules, 2020, 10, 780.	1.8	16
208	Epigenetic Changes in Aging and Age-related Disease. Journal of Aging Science, 2015, 03, .	0.5	5
211	Case Studies. Advances in Experimental Medicine and Biology, 2018, 1069, 135-209.	0.8	0
212	Senescence Induced by DNA Demethylating Drugs to Treat Solid Tumors. , 2018, , 1-30.		0

#	Article	IF	Citations
214	Senescence Induced by DNA Demethylating Drugs to Treat Solid Tumors. , 2019, , 2709-2737.		0
217	Senescence and the Genome. , 2020, , 87-106.		1
220	The expression and prognostic value of GLYATL1 and its potential role in hepatocellular carcinoma. Journal of Gastrointestinal Oncology, 2020, 11, 1305-1321.	0.6	10
221	The Development of Epigenetics in the Study of Disease Pathogenesis. Advances in Experimental Medicine and Biology, 2020, 1253, 57-94.	0.8	13
222	Epigenetics of the Aging Musculoskeletal System. , 2020, , 17-28.		0
223	Regulation of the mitochondrial permeability transition pore and its effects on aging. Microbial Cell, 2020, 7, 222-233.	1.4	0
224	A novel nonparametric computational strategy for identifying differential methylation regions. BMC Bioinformatics, 2022, 23, 29.	1.2	0
225	Regulation of the mitochondrial permeability transition pore and its effects on aging. Microbial Cell, 2020, 7, 222-233.	1.4	4
226	Overview of Polyamines as Nutrients for Human Healthy Long Life and Effect of Increased Polyamine Intake on DNA Methylation. Cells, 2022, 11, 164.	1.8	26
227	Interconnections between Inflammageing and Immunosenescence during Ageing. Cells, 2022, 11, 359.	1.8	70
228	ZMAT3 hypomethylation contributes to early senescence of preadipocytes from healthy firstâ€degree relatives of type 2 diabetics. Aging Cell, 2022, 21, e13557.	3.0	19
229	Pericentromeric repetitive ncRNA regulates chromatin interaction and inflammatory gene expression. Nucleus, 2022, 13, 74-78.	0.6	1
230	Why Senescent Cells Are Resistant to Apoptosis: An Insight for Senolytic Development. Frontiers in Cell and Developmental Biology, 2022, 10, 822816.	1.8	40
231	Epigenetic Regulation of Cellular Senescence. Cells, 2022, 11, 672.	1.8	43
232	Transposable Elements: Major Players in Shaping Genomic and Evolutionary Patterns. Cells, 2022, 11, 1048.	1.8	16
233	Cellular senescence signaling in cancer: A novel therapeutic target to combat human malignancies. Biochemical Pharmacology, 2022, 199, 114989.	2.0	9
235	Mechanisms and Regulation of Cellular Senescence. International Journal of Molecular Sciences, 2021, 22, 13173.	1.8	116
236	MeConcord: a new metric to quantitatively characterize DNA methylation heterogeneity across reads and CpG sites. Bioinformatics, 2022, 38, i307-i315.	1.8	2

#	Article	IF	Citations
237	Age-Related Variation in DNA Methylation. , 2022, , 235-259.		1
243	Current and emerging molecular technologies for the diagnosis of plant diseases â€“ An overview. Journal of Experimental Biology and Agricultural Sciences, 2022, 10, 294-305.	0.1	1
246	Toward Elucidating Epigenetic and Metabolic Regulation of Stem Cell Lineage Plasticity in Skin Aging. Frontiers in Cell and Developmental Biology, 2022, 10, .	1.8	3
248	Epigenetic Regulation of Inflammatory Signaling and Inflammation-Induced Cancer. Frontiers in Cell and Developmental Biology, 0, 10, .	1.8	15
249	Autophagy at the intersection of aging, senescence, and cancer. Molecular Oncology, 2022, 16, 3259-3275.	2.1	23
250	Long-Term Treatment with Bortezomib Induces Specific Methylation Changes in Differentiated Neuronal Cells. Cancers, 2022, 14, 3402.	1.7	2
251	Revisiting Epithelial Carcinogenesis. International Journal of Molecular Sciences, 2022, 23, 7437.	1.8	6
252	Epigenetic Control of Vascular Smooth Muscle Cell Function in Atherosclerosis: A Role for DNA Methylation. DNA and Cell Biology, 2022, 41, 824-837.	0.9	2
253	Elimination of Senescent Cells by Polyphenols and Flavonoids. , 2022, , 3-24.		0
254	Culture-Associated DNA Methylation Changes Impact on Cellular Function of Human Intestinal Organoids. Cellular and Molecular Gastroenterology and Hepatology, 2022, 14, 1295-1310.	2.3	7
256	Association between EPHA5 methylation status in peripheral blood leukocytes and the risk and prognosis of gastric cancer. PeerJ, 0, 10, e13774.	0.9	1
258	Single-cell epigenome analysis reveals age-associated decay of heterochromatin domains in excitatory neurons in the mouse brain. Cell Research, 2022, 32, 1008-1021.	5.7	16
259	Cell division drives DNA methylation loss in late-replicating domains in primary human cells. Nature Communications, 2022, 13, .	5.8	22
260	METTL14 Regulates Intestine Cellular Senescence through m6A Modification of Lamin B Receptor. Oxidative Medicine and Cellular Longevity, 2022, 2022, 1-16.	1.9	5
261	Quantifying propagation of DNA methylation and hydroxymethylation with iDEMS. Nature Cell Biology, 2023, 25, 183-193.	4.6	7
262	Is aging a â€œRetroâ€spective event?. Cell, 2023, 186, 233-235.	13.5	2
263	Dynamic Regulation of DNA Methylation and Brain Functions. Biology, 2023, 12, 152.	1.3	9
264	Yearning for machine learning: applications for the classification and characterisation of senescence. Cell and Tissue Research, 2023, 394, 1-16.	1.5	4

#	Article	IF	Citations
265	Epigenetic Mechanisms of Aging and Aging-Associated Diseases. Cells, 2023, 12, 1163.	1.8	5
266	DNA methylation changes from primary cultures through senescence-bypass in Syrian hamster fetal cells initially exposed to benzo[a]pyrene. Toxicology, 2023, 487, 153451.	2.0	3
267	Role of Senescence-Resumed Proliferation in Keloid Pathogenesis. Future Pharmacology, 2023, 3, 198-212.	0.6	1
268	Salt-driven chromatin remodeling associated with senescence dysregulation plays a crucial role in the carcinogenesis of gastric cancer subtype. Computational Toxicology, 2023, 25, 100262.	1.8	2
269	Î”Np63Î±-mediated epigenetic regulation in keratinocyte senescence. Epigenetics, 2023, 18, .	1.3	1
270	Bepotastine Sensitizes Ovarian Cancer to PARP Inhibitors through Suppressing NF-ÎºBâ€“Triggered SASP in Cancer-Associated Fibroblasts. Molecular Cancer Therapeutics, 2023, 22, 447-458.	1.9	4
271	Multiple characteristic alterations and available therapeutic strategies of cellular senescence. Journal of Zhejiang University: Science B, 2023, 24, 101-114.	1.3	0
272	Heterogeneity of Cellular Senescence: Cell Type-Specific and Senescence Stimulus-Dependent Epigenetic Alterations. Cells, 2023, 12, 927.	1.8	5
273	Finite sample inference for empirical Bayesian methods. Scandinavian Journal of Statistics, 2023, 50, 1616-1640.	0.9	0
274	Spurious intragenic transcription is a feature of mammalian cellular senescence and tissue aging. Nature Aging, 2023, 3, 402-417.	5.3	9
275	Endothelial cell senescence exacerbates pulmonary hypertension by inducing juxtacrine Notch signaling in smooth muscle cells. IScience, 2023, 26, 106662.	1.9	6
297	Cardiac cell senescence: molecular mechanisms, key proteins and therapeutic targets. Cell Death Discovery, 2024, 10, .	2.0	0