Anne Brunet

List of Publications by Year
in descending order

113 papers	34,818 citations	10986 71 h-index	22832 112 g-index
138 all docs	138 docs citations	138 times ranked	41231 citing authors

#	Article	IF	Citations
1	Akt Promotes Cell Survival by Phosphorylating and Inhibiting a Forkhead Transcription Factor. Cell, 1999, 96, 857-868.	28.9	5,895
2	Stress-Dependent Regulation of FOXO Transcription Factors by the SIRT1 Deacetylase. Science, 2004, 303, 2011-2015.	12.6	2,913
3	Cell Survival Promoted by the Ras-MAPK Signaling Pathway by Transcription-Dependent and -Independent Mechanisms. Science, 1999, 286, 1358-1362.	12.6	1,741
4	Geroscience: Linking Aging to Chronic Disease. Cell, 2014, 159, 709-713.	28.9	1,709
5	FOXO transcription factors at the interface between longevity and tumor suppression. Oncogene, 2005, 24, 7410-7425.	5.9	1,135
6	Cyclin D1 Expression Is Regulated Positively by the p42/p44 and Negatively by the p38/HOG Pathway. Journal of Biological Chemistry, 1996, 271, 20608-20616.	3.4	1,103
7	Transcription-dependent and -independent control of neuronal survival by the PI3Kâ€“Akt signaling pathway. Current Opinion in Neurobiology, 2001, 11, 297-305.	4.2	1,098
8	DNA Repair Pathway Stimulated by the Forkhead Transcription Factor FOXO3a Through the Gadd45 Protein. Science, 2002, 296, 530-534.	12.6	788
9	Protein Kinase SGK Mediates Survival Signals by Phosphorylating the Forkhead Transcription Factor FKHRL1 (FOXO3a). Molecular and Cellular Biology, 2001, 21, 952-965.	2.3	775
10	An AMPK-FOXO Pathway Mediates Longevity Induced by a Novel Method of Dietary Restriction in C. elegans. Current Biology, 2007, 17, 1646-1656.	3.9	701
11	AMPK: An Energy-Sensing Pathway with Multiple Inputs and Outputs. Trends in Cell Biology, 2016, 26, 190-201.	7.9	695
12	The Energy Sensor AMP-activated Protein Kinase Directly Regulates the Mammalian FOXO3 Transcription Factor. Journal of Biological Chemistry, 2007, 282, 30107-30119.	3.4	691
13	Transgenerational epigenetic inheritance of longevity in Caenorhabditis elegans. Nature, 2011, 479, 365-371.	27.8	562
14	Hierarchical Mechanisms for Direct Reprogramming of Fibroblasts to Neurons. Cell, 2013, 155, 621-635.	28.9	531
15	FoxO3 Regulates Neural Stem Cell Homeostasis. Cell Stem Cell, 2009, 5, 527-539.	11.1	526
16	FoxO transcription factors in the maintenance of cellular homeostasis during aging. Current Opinion in Cell Biology, 2008, 20, 126-136.	5.4	519
17	Different dietary restriction regimens extend lifespan by both independent and overlapping genetic pathways in C. elegans. Aging Cell, 2009, 8, 113-127.	6.7	518
18	Epigenetic regulation of ageing: linking environmental inputs to genomic stability. Nature Reviews Molecular Cell Biology, 2015, 16, 593-610.	37.0	515

#	Article	IF	Citations
19	14-3-3 transits to the nucleus and participates in dynamic nucleocytoplasmic transport. Journal of Cell Biology, 2002, 156, 817-828.	5.2	501
20	Dynamic landscape and regulation of RNA editing in mammals. Nature, 2017, 550, 249-254.	27.8	495
21	Members of the H3K4 trimethylation complex regulate lifespan in a germline-dependent manner in C. elegans. Nature, 2010, 466, 383-387.	27.8	468
22	Chromatin Modifications as Determinants of Muscle Stem Cell Quiescence and Chronological Aging. Cell Reports, 2013, 4, 189-204.	6.4	463
23	FOXO transcription factors: key regulators of cellular quality control. Trends in Biochemical Sciences, 2014, 39, 159-169.	7.5	450
24	H3K4me3 Breadth Is Linked to Cell Identity and Transcriptional Consistency. Cell, 2014, 158, 673-688.	28.9	404
25	Lysosome activation clears aggregates and enhances quiescent neural stem cell activation during aging. Science, 2018, 359, 1277-1283.	12.6	374
26	The Aging Epigenome. Molecular Cell, 2016, 62, 728-744.	9.7	362
27	Single-cell analysis reveals T cell infiltration in old neurogenic niches. Nature, 2019, 571, 205-210.	27.8	351
28	The Dual Specificity Mitogen-activated Protein Kinase Phosphatase-1 and -2 Are Induced by the p42/p44MAPK Cascade. Journal of Biological Chemistry, 1997, 272, 1368-1376.	3.4	330
29	Single-Cell Transcriptomic Analysis Defines Heterogeneity and Transcriptional Dynamics in the Adult Neural Stem Cell Lineage. Cell Reports, 2017, 18, 777-790.	6.4	270
30	Energy metabolism in adult neural stem cell fate. Progress in Neurobiology, 2011, 93, 182-203.	5.7	253
31	Mono-unsaturated fatty acids link H3K4me3 modifiers to C. elegans lifespan. Nature, 2017, 544, 185-190.	27.8	245
32	Remodeling of epigenome and transcriptome landscapes with aging in mice reveals widespread induction of inflammatory responses. Genome Research, 2019, 29, 697-709.	5.5	234
33	Chemical Genetic Screen for AMPKÎ±2 Substrates Uncovers a Network of Proteins Involved in Mitosis. Molecular Cell, 2011, 44, 878-892.	9.7	232
34	Personal aging markers and ageotypes revealed by deep longitudinal profiling. Nature Medicine, 2020, 26, 83-90.	30.7	225
35	FOXO transcription factors. Current Biology, 2007, 17, R113-R114.	3.9	219
36	The H3K27 demethylase UTXâ€1 regulates C.Âelegans lifespan in a germlineâ€independent, insulinâ€dependent manner. Aging Cell, 2011, 10, 980-990.	6.7	207

#	Article	IF	Citations
37	Growth Factorâ€“induced p42/p44 MAPK Nuclear Translocation and Retention Requires Both MAPK Activation and Neosynthesis of Nuclear Anchoring Proteins. Journal of Cell Biology, 1998, 142, 625-633.	5.2	201
38	Progranulin, lysosomal regulation and neurodegenerative disease. Nature Reviews Neuroscience, 2017, 18, 325-333.	10.2	201
39	Epigenetics of Aging and Aging-related Disease. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2014, 69, S17-S20.	3.6	200
40	The African Turquoise Killifish Genome Provides Insights into Evolution and Genetic Architecture of Lifespan. Cell, 2015, 163, 1539-1554.	28.9	200
41	A Platform for Rapid Exploration of Aging and Diseases in a Naturally Short-Lived Vertebrate. Cell, 2015, 160, 1013-1026.	28.9	199
42	Bridging the transgenerational gap with epigenetic memory. Trends in Genetics, 2013, 29, 176-186.	6.7	198
43	The microRNA cluster miR-106b~25 regulates adult neural stem/progenitor cell proliferation and neuronal differentiation. Aging, 2011, 3, 108-124.	3.1	193
44	Heterogeneity in old fibroblasts is linked to variability in reprogramming and wound healing. Nature, 2019, 574, 553-558.	27.8	187
45	Characterization of the direct targets of <scp>FOXO</scp> transcription factors throughout evolution. Aging Cell, 2016, 15, 673-685.	6.7	177
46	The Genetics of Aging: A Vertebrate Perspective. Cell, 2019, 177, 200-220.	28.9	177
47	Inhibition of the Mitogen-activated Protein Kinase Pathway Triggers B16 Melanoma Cell Differentiation. Journal of Biological Chemistry, 1998, 273, 9966-9970.	3.4	172
48	Histone methylation makes its mark on longevity. Trends in Cell Biology, 2012, 22, 42-49.	7.9	168
49	Inhibition of Pluripotency Networks by the Rb Tumor Suppressor Restricts Reprogramming and Tumorigenesis. Cell Stem Cell, 2015, 16, 39-50.	11.1	166
50	Non-model model organisms. BMC Biology, 2017, 15, 55.	3.8	164
51	FOXO3 Promotes Quiescence in Adult Muscle Stem Cells during the Process of Self-Renewal. Stem Cell Reports, 2014, 2, 414-426.	4.8	156
52	Energy metabolism and energy-sensing pathways in mammalian embryonic and adult stem cell fate. Journal of Cell Science, 2012, 125, 5597-5608.	2.0	153
53	Males Shorten the Life Span of C. elegans Hermaphrodites via Secreted Compounds. Science, 2014, 343, 541-544.	12.6	150
54	Identification of AMPK Phosphorylation Sites Reveals a Network of Proteins Involved in Cell Invasion and Facilitates Large-Scale Substrate Prediction. Cell Metabolism, 2015, 22, 907-921.	16.2	149

#	Article	IF	Citations
55	Changes in regeneration-responsive enhancers shape regenerative capacities in vertebrates. Science, 2020, 369, .	12.6	147
56	Chromatin accessibility dynamics reveal novel functional enhancers in C. elegans. Genome Research, 2017, 27, 2096-2107.	5.5	142
57	FOXO3 Shares Common Targets with ASCL1 Genome-wide and Inhibits ASCL1-Dependent Neurogenesis. Cell Reports, 2013, 4, 477-491.	6.4	139
58	Aging and reprogramming: a two-way street. Current Opinion in Cell Biology, 2012, 24, 744-756.	5.4	136
59	Expansion of oligodendrocyte progenitor cells following SIRT1 inactivation in the adult brain. Nature Cell Biology, 2013, 15, 614-624.	10.3	133
60	Turning back time with emerging rejuvenation strategies. Nature Cell Biology, 2019, 21, 32-43.	10.3	120
61	The African turquoise killifish: A research organism to study vertebrate aging and diapause. Aging Cell, 2018, 17, e12757.	6.7	118
62	Aging and Rejuvenation of Neural Stem Cells and Their Niches. Cell Stem Cell, 2020, 27, 202-223.	11.1	118
63	FoxO6 regulates memory consolidation and synaptic function. Genes and Development, 2012, 26, 2780-2801.	5.9	116
64	AMPâ€activated Protein Kinase and FoxO Transcription Factors in Dietary Restrictionâ€“induced Longevity. Annals of the New York Academy of Sciences, 2009, 1170, 688-692.	3.8	112
65	Linking Lipid Metabolism to Chromatin Regulation in Aging. Trends in Cell Biology, 2019, 29, 97-116.	7.9	96
66	<scp>AMPK</scp>Î±1â€<scp>LDH</scp> pathway regulates muscle stem cell selfâ€renewal by controlling metabolic homeostasis. EMBO Journal, 2017, 36, 1946-1962.	7.8	95
67	Transposon-Mediated Transgenesis in the Short-Lived African KillifishNothobranchius furzeri, a Vertebrate Model for Aging. G3: Genes, Genomes, Genetics, 2011, 1, 531-538.	1.8	92
68	Substrate Recognition Domains within Extracellular Signal-regulated Kinase Mediate Binding and Catalytic Activation of Mitogen-activated Protein Kinase Phosphatase-3. Journal of Biological Chemistry, 2000, 275, 24613-24621.	3.4	88
69	Signaling networks in aging. Journal of Cell Science, 2008, 121, 407-412.	2.0	88
70	A FOXOâ€“Pak1 transcriptional pathway controls neuronal polarity. Genes and Development, 2010, 24, 799-813.	5.9	83
71	Cross-Platform Comparison of Untargeted and Targeted Lipidomics Approaches on Aging Mouse Plasma. Scientific Reports, 2018, 8, 17747.	3.3	81
72	Vertebrate diapause preserves organisms long term through Polycomb complex members. Science, 2020, 367, 870-874.	12.6	79

#	Article	IF	Citations
73	Methylation by Set9 modulates FoxO3 stability and transcriptional activity. Aging, 2012, 4, 462-479.	3.1	76
74	AMP-Activated Protein Kinase Directly Phosphorylates and Destabilizes Hedgehog Pathway Transcription Factor GLI1 in Medulloblastoma. Cell Reports, 2015, 12, 599-609.	6.4	73
75	Efficient genome engineering approaches for the short-lived African turquoise killifish. Nature Protocols, 2016, 11, 2010-2028.	12.0	68
76	Mapping Loci Associated With Tail Color and Sex Determination in the Short-Lived Fish Nothobranchius furzeri. Genetics, 2009, 183, 1385-1395.	2.9	67
77	Differentiation Drives Widespread Rewiring of the Neural Stem Cell Chaperone Network. Molecular Cell, 2020, 78, 329-345.e9.	9.7	66
78	Interaction between epigenetic and metabolism in aging stem cells. Current Opinion in Cell Biology, 2017, 45, 1-7.	5.4	62
79	The Mouse p44 Mitogen-activated Protein Kinase (Extracellular Signal-regulated Kinase 1) Gene. Journal of Biological Chemistry, 1995, 270, 26986-26992.	3.4	61
80	MicroRNA programs in normal and aberrant stem and progenitor cells. Genome Research, 2011, 21, 798-810.	5.5	61
81	High telomerase is a hallmark of undifferentiated spermatogonia and is required for maintenance of male germline stem cells. Genes and Development, 2015, 29, 2420-2434.	5.9	56
82	PEA-15 Binding to ERK1/2 MAPKs Is Required for Its Modulation of Integrin Activation. Journal of Biological Chemistry, 2003, 278, 52587-52597.	3.4	52
83	From stem to stern. Nature, 2007, 449, 288-291.	27.8	39
84	The African Turquoise Killifish: A Model for Exploring Vertebrate Aging and Diseases in the Fast Lane. Cold Spring Harbor Symposia on Quantitative Biology, 2015, 80, 275-279.	1.1	37
85	Lipid Profiles and Signals for Long Life. Trends in Endocrinology and Metabolism, 2015, 26, 589-592.	7.1	36
86	Cell-Type-Specific Metabolic Profiling Achieved by Combining Desorption Electrospray Ionization Mass Spectrometry Imaging and Immunofluorescence Staining. Analytical Chemistry, 2020, 92, 13281-13289.	6.5	31
87	FoxO3 regulates neuronal reprogramming of cells from postnatal and aging mice. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8514-8519.	7.1	24
88	Stem Cell Aging and Sex: Are We Missing Something?. Cell Stem Cell, 2015, 16, 588-590.	11.1	21
89	The genome of Austrofundulus limnaeus offers insights into extreme vertebrate stress tolerance and embryonic development. BMC Genomics, 2018, 19, 155.	2.8	21
90	Self-sperm induce resistance to the detrimental effects of sexual encounters with males in hermaphroditic nematodes. ELife, 2019, 8, .	6.0	20

#	Article	IF	Citations
91	Loss of CaMKI Function Disrupts Salt Aversive Learning in C. elegans. Journal of Neuroscience, 2018, 38, 6114-6129.	3.6	18
92	Old and new models for the study of human ageing. Nature Reviews Molecular Cell Biology, 2020, 21, 491-493.	37.0	17
93	Epigenetic memory of longevity in Caenorhabditis elegans. Worm, 2012, 1, 77-81.	1.0	13
94	Lysosomal lipid lengthens life span. Science, 2015, 347, 32-33.	12.6	11
95	When restriction is good. Nature, 2009, 458, 713-714.	27.8	10
96	Sex specificity in the blood. Nature, 2014, 505, 488-489.	27.8	10
97	FOXO flips the longevity SWItch. Nature Cell Biology, 2013, 15, 444-446.	10.3	9
98	Bursts of Reprogramming: A Path to Extend Lifespan?. Cell, 2016, 167, 1672-1674.	28.9	8
99	Aging and cancer: killing two birds with one worm. Nature Genetics, 2007, 39, 1306-1307.	21.4	4
100	In-depth triacylglycerol profiling using MS3 Q-Trap mass spectrometry. Analytica Chimica Acta, 2021, 1184, 339023.	5.4	4
101	Meeting Report: Aging Research and Drug Discovery. Aging, 2022, 14, 530-543.	3.1	4
102	A CRTCal Link between Energy and Life Span. Cell Metabolism, 2011, 13, 358-360.	16.2	3
103	Shockingly Early: Chromatin-Mediated Loss of the Heat Shock Response. Molecular Cell, 2015, 59, 515-516.	9.7	2
104	Deconstructing Dietary Restriction: A Case for Systems Approaches in Aging. Cell Metabolism, 2016, 23, 395-396.	16.2	2
105	Support cells in the brain promote longevity. Science, 2020, 367, 365-366.	12.6	2
106	Unwanted help from T cells in the aging central nervous system. Nature Aging, 2021, 1, 330-331.	11.6	2
107	Longevity Pathways in Mammalian Stem Cells. Annual Review of Gerontology and Geriatrics, 2014, 34, 1-39.	0.5	1
108	Same path, different beginnings. Nature Neuroscience, 2018, 21, 159-160.	14.8	1

#	Article	IF	Citations
109	Women in Metabolism: Part 3. Cell Metabolism, 2015, 22, 949-953.	16.2	0
110	Unbiased identification of novel AMPK substrates by chemical genetics. FASEB Journal, 2012, 26, 471.1.	0.5	0
111	Development of the African Killifish as a New Model to Study Aging and Suspended animation. Innovation in Aging, 2020, 4, 743-743.	0.1	0
112	Epigenetics and Aging in Killifish. Innovation in Aging, 2020, 4, 742-742.	0.1	0
113	Long life depends on open communication. Nature Cell Biology, 2022, 24, 808-810.	10.3	0