Eric Verdin

List of Publications by Year
in descending order

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255 papers	56,287 citations	699 121 h-index	1152 229 g-index
280 all docs	280 docs citations	280 times ranked	55404 citing authors

#	Article	IF	Citations
1	A SARS-CoV-2 protein interaction map reveals targets for drug repurposing. Nature, 2020, 583, 459-468.	13.7	3,542
2	Chronic inflammation in the etiology of disease across the life span. Nature Medicine, 2019, 25, 1822-1832.	15.2	2,195
3	SIRT3 regulates mitochondrial fatty-acid oxidation by reversible enzyme deacetylation. Nature, 2010, 464, 121-125.	13.7	1,388
4	The Human Sir2 Ortholog, SIRT2, Is an NAD+-Dependent Tubulin Deacetylase. Molecular Cell, 2003, 11, 437-444.	4.5	1,370
5	Suppression of Oxidative Stress by Î²-Hydroxybutyrate, an Endogenous Histone Deacetylase Inhibitor. Science, 2013, 339, 211-214.	6.0	1,264
6	Duration of Nuclear NF-kappa B Action Regulated by Reversible Acetylation. Science, 2001, 293, 1653-1657.	6.0	1,153
7	The growing landscape of lysine acetylation links metabolism and cell signalling. Nature Reviews Molecular Cell Biology, 2014, 15, 536-550.	16.1	1,153
8	Calorie Restriction Reduces Oxidative Stress by SIRT3-Mediated SOD2 Activation. Cell Metabolism, 2010, 12, 662-667.	7.2	1,142
9	Mammalian Sir2 Homolog SIRT3 Regulates Global Mitochondrial Lysine Acetylation. Molecular and Cellular Biology, 2007, 27, 8807-8814.	1.1	1,097
10	NAD ⁺ in aging, metabolism, and neurodegeneration. Science, 2015, 350, 1208-1213.	6.0	887
11	A class of hybrid polar inducers of transformed cell differentiation inhibits histone deacetylases. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 3003-3007.	3.3	842
12	HIV reproducibly establishes a latent infection after acute infection of T cells in vitro. EMBO Journal, 2003, 22, 1868-1877.	3.5	791
13	Mitochondrial Dysfunction Induces Senescence with a Distinct Secretory Phenotype. Cell Metabolism, 2016, 23, 303-314.	7.2	776
14	From discoveries in ageing research to therapeutics for healthy ageing. Nature, 2019, 571, 183-192.	13.7	730
15	Ketone bodies as signaling metabolites. Trends in Endocrinology and Metabolism, 2014, 25, 42-52.	3.1	708
16	SIRT3 Deficiency and Mitochondrial Protein Hyperacetylation Accelerate the Development of the Metabolic Syndrome. Molecular Cell, 2011, 44, 177-190.	4.5	691
17	50 years of protein acetylation: from gene regulation to epigenetics, metabolism and beyond. Nature Reviews Molecular Cell Biology, 2015, 16, 258-264.	16.1	680
18	Enzymatic Activity Associated with Class II HDACs Is Dependent on a Multiprotein Complex Containing HDAC3 and SMRT/N-CoR. Molecular Cell, 2002, 9, 45-57.	4.5	663

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19	Reversible lysine acetylation controls the activity of the mitochondrial enzyme acetyl-CoA synthetase 2. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 10224-10229.	3.3	642
20	Class II histone deacetylases: versatile regulators. Trends in Genetics, 2003, 19, 286-293.	2.9	604
21	The First Identification of Lysine Malonylation Substrates and Its Regulatory Enzyme. Molecular and Cellular Proteomics, 2011, 10, M111.012658.	2.5	598
22	NAD+ metabolism and its roles in cellular processes during ageing. Nature Reviews Molecular Cell Biology, 2021, 22, 119-141.	16.1	593
23	Sirtuin regulation of mitochondria: energy production, apoptosis, and signaling. Trends in Biochemical Sciences, 2010, 35, 669-675.	3.7	549
24	SIRT5 Regulates the Mitochondrial Lysine Succinylome and Metabolic Networks. Cell Metabolism, 2013, 18, 920-933.	7.2	549
25	Sirtuins: critical regulators at the crossroads between cancer and aging. Oncogene, 2007, 26, 5489-5504.	2.6	541
26	The human silent information regulator (Sir)2 homologue hSIRT3 is a mitochondrial nicotinamide adenine dinucleotideâ€“dependent deacetylase. Journal of Cell Biology, 2002, 158, 647-657.	2.3	524
27	The expression of a small fraction of cellular genes is changed in response to histone hyperacetylation. Gene Expression, 1996, 5, 245-53.	0.5	517
28	Transcriptional activation and chromatin remodeling of the HIV-1 promoter in response to histone acetylation.. EMBO Journal, 1996, 15, 1112-1120.	3.5	511
29	Towards an HIV cure: a global scientific strategy. Nature Reviews Immunology, 2012, 12, 607-614.	10.6	485
30	Î²-Hydroxybutyrate: A Signaling Metabolite. Annual Review of Nutrition, 2017, 37, 51-76.	4.3	478
31	Sirtuins: Sir2-related NAD-dependent protein deacetylases. Genome Biology, 2004, 5, 224.	13.9	463
32	Chromatin disruption in the promoter of human immunodeficiency virus type 1 during transcriptional activation.. EMBO Journal, 1993, 12, 3249-3259.	3.5	437
33	Platform-independent and Label-free Quantitation of Proteomic Data Using MS1 Extracted Ion Chromatograms in Skyline. Molecular and Cellular Proteomics, 2012, 11, 202-214.	2.5	428
34	SIRT3 Deacetylates Mitochondrial 3-Hydroxy-3-Methylglutaryl CoA Synthase 2 and Regulates Ketone Body Production. Cell Metabolism, 2010, 12, 654-661.	7.2	418
35	Label-free quantitative proteomics of the lysine acetylome in mitochondria identifies substrates of SIRT3 in metabolic pathways. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 6601-6606.	3.3	414
36	A core SMRT corepressor complex containing HDAC3 and TBL1, a WD40-repeat protein linked to deafness. Genes and Development, 2000, 14, 1048-1057.	2.7	412

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37	NF-ÎºB p50 promotes HIV latency through HDAC recruitment and repression of transcriptional initiation. EMBO Journal, 2006, 25, 139-149.	3.5	411
38	Apoptosis of CD8+ T cells is mediated by macrophages through interaction of HIV gp120 with chemokine receptor CXCR4. Nature, 1998, 395, 189-194.	13.7	409
39	Sirtuin-3 (Sirt3) regulates skeletal muscle metabolism and insulin signaling via altered mitochondrial oxidation and reactive oxygen species production. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 14608-14613.	3.3	403
40	The site of HIV-1 integration in the human genome determines basal transcriptional activity and response to Tat transactivation. EMBO Journal, 2001, 20, 1726-1738.	3.5	401
41	Critical role of acetylation in tau-mediated neurodegeneration and cognitive deficits. Nature Medicine, 2015, 21, 1154-1162.	15.2	398
42	Histone deacetylases inhibitors as anti-angiogenic agents altering vascular endothelial growth factor signaling. Oncogene, 2002, 21, 427-436.	2.6	383
43	BCoR, a novel corepressor involved in BCL-6 repression. Genes and Development, 2000, 14, 1810-1823.	2.7	383
44	Conserved Metabolic Regulatory Functions of Sirtuins. Cell Metabolism, 2008, 7, 104-112.	7.2	368
45	SIRT5 Regulates both Cytosolic and Mitochondrial Protein Malonylation with Glycolysis as a Major Target. Molecular Cell, 2015, 59, 321-332.	4.5	363
46	An In-Depth Comparison of Latent HIV-1 Reactivation in Multiple Cell Model Systems and Resting CD4+ T Cells from Aviremic Patients. PLoS Pathogens, 2013, 9, e1003834.	2.1	360
47	Regulation of Insulin Secretion by SIRT4, a Mitochondrial ADP-ribosyltransferase. Journal of Biological Chemistry, 2007, 282, 33583-33592.	1.6	359
48	A core SMRT corepressor complex containing HDAC3 and TBL1, a WD40-repeat protein linked to deafness. Genes and Development, 2000, 14, 1048-57.	2.7	348
49	The nexus of chromatin regulation and intermediary metabolism. Nature, 2013, 502, 489-498.	13.7	341
50	Ketogenic Diet Reduces Midlife Mortality and Improves Memory in Aging Mice. Cell Metabolism, 2017, 26, 547-557.e8.	7.2	333
51	BCoR, a novel corepressor involved in BCL-6 repression. Genes and Development, 2000, 14, 1810-23.	2.7	331
52	Conserved P-TEFb-interacting domain of BRD4 inhibits HIV transcription. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 13690-13695.	3.3	330
53	Epigenetic Regulation of HIV-1 Latency by Cytosine Methylation. PLoS Pathogens, 2009, 5, e1000495.	2.1	321
54	Transcriptional activation and chromatin remodeling of the HIV-1 promoter in response to histone acetylation. EMBO Journal, 1996, 15, 1112-20.	3.5	305

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55	SIRT1 Regulates HIV Transcription via Tat Deacetylation. PLoS Biology, 2005, 3, e41.	2.6	292
56	Ketogenic Diets Alter the Gut Microbiome Resulting in Decreased Intestinal Th17 Cells. Cell, 2020, 181, 1263-1275.e16.	13.5	292
57	Characterization of a human RPD3 ortholog, HDAC3. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 2795-2800.	3.3	290
58	CpG Methylation Controls Reactivation of HIV from Latency. PLoS Pathogens, 2009, 5, e1000554.	2.1	285
59	Prostratin Antagonizes HIV Latency by Activating NF-Î°B. Journal of Biological Chemistry, 2004, 279, 42008-42017.	1.6	283
60	Acetylation of the HIV-1 Tat protein by p300 is important for its transcriptional activity. Current Biology, 1999, 9, 1489-1493.	1.8	274
61	HIV Persistence and the Prospect of Long-Term Drug-Free Remissions for HIV-Infected Individuals. Science, 2010, 329, 174-180.	6.0	274
62	Chromatin disruption in the promoter of human immunodeficiency virus type 1 during transcriptional activation. EMBO Journal, 1993, 12, 3249-59.	3.5	258
63	The Nef protein of HIV-1 associates with rafts and primes T cells for activation. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 394-399.	3.3	252
64	Genome-Wide Analysis of Chromosomal Features Repressing Human Immunodeficiency Virus Transcription. Journal of Virology, 2005, 79, 6610-6619.	1.5	247
65	Interphase Nucleo-Cytoplasmic Shuttling and Localization of SIRT2 during Mitosis. PLoS ONE, 2007, 2, e784.	1.1	246
66	The Mitochondrial Acylome Emerges: Proteomics, Regulation by Sirtuins, and Metabolic and Disease Implications. Cell Metabolism, 2018, 27, 497-512.	7.2	241
67	Î²-hydroxybutyrate: Much more than a metabolite. Diabetes Research and Clinical Practice, 2014, 106, 173-181.	1.1	239
68	Activation of SIRT3 by the NAD+ Precursor Nicotinamide Riboside Protects from Noise-Induced Hearing Loss. Cell Metabolism, 2014, 20, 1059-1068.	7.2	237
69	Lysine Acetylation Goes Global: From Epigenetics to Metabolism and Therapeutics. Chemical Reviews, 2018, 118, 1216-1252.	23.0	236
70	Sirt3 Regulates Metabolic Flexibility of Skeletal Muscle Through Reversible Enzymatic Deacetylation. Diabetes, 2013, 62, 3404-3417.	0.3	234
71	Mitochondrial sirtuins: regulators of protein acylation and metabolism. Trends in Endocrinology and Metabolism, 2012, 23, 467-476.	3.1	231
72	Structural Basis of Lysine-Acetylated HIV-1 Tat Recognition by PCAF Bromodomain. Molecular Cell, 2002, 9, 575-586.	4.5	229

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73	Immune Hyperactivation of HIV-1-Infected T Cells Mediated by Tat and the CD28 Pathway. Science, 1997, 275, 1481-1485.	6.0	223
74	A New Family of Human Histone Deacetylases Related toSaccharomyces cerevisiae HDA1p. Journal of Biological Chemistry, 1999, 274, 11713-11720.	1.6	222
75	miRNAs regulate SIRT1 expression during mouse embryonic stem cell differentiation and in adult mouse tissues. Aging, 2010, 2, 415-431.	1.4	217
76	BET bromodomain-targeting compounds reactivate HIV from latency via a Tat-independent mechanism. Cell Cycle, 2013, 12, 452-462.	1.3	209
77	The sirtuins, oxidative stress and aging: an emerging link. Aging, 2013, 5, 144-150.	1.4	209
78	Control of endothelial cell proliferation and migration by VEGF signaling to histone deacetylase 7. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 7738-7743.	3.3	208
79	SARS-CoV-2, COVID-19 and the aging immune system. Nature Aging, 2021, 1, 769-782.	5.3	208
80	Senescent cells promote tissue NAD+ decline during ageing via the activation of CD38+ macrophages. Nature Metabolism, 2020, 2, 1265-1283.	5.1	206
81	HDAC7, a Thymus-Specific Class II Histone Deacetylase, Regulates Nur77 Transcription and TCR-Mediated Apoptosis. Immunity, 2003, 18, 687-698.	6.6	200
82	Mitochondrial sirtuins. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2010, 1804, 1645-1651.	1.1	199
83	Control of cytomegalovirus lytic gene expression by histone acetylation. EMBO Journal, 2002, 21, 1112-1120.	3.5	197
84	Mitochondrial Deacetylase Sirt3 Reduces Vascular Dysfunction and Hypertension While Sirt3 Depletion in Essential Hypertension Is Linked to Vascular Inflammation and Oxidative Stress. Circulation Research, 2020, 126, 439-452.	2.0	195
85	Understanding HIV Latency: The Road to an HIV Cure. Annual Review of Medicine, 2015, 66, 407-421.	5.0	193
86	Human HDAC7 Histone Deacetylase Activity Is Associated with HDAC3in Vivo. Journal of Biological Chemistry, 2001, 276, 35826-35835.	1.6	192
87	Design and evaluation of â€˜Linkerlessâ€™ hydroxamic acids as selective HDAC8 inhibitors. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 2874-2878.	1.0	190
88	Regulation of Global Acetylation in Mitosis through Loss of Histone Acetyltransferases and Deacetylases from Chromatin. Journal of Biological Chemistry, 2001, 276, 38307-38319.	1.6	189
89	Mitochondrial Protein Acylation and Intermediary Metabolism: Regulation by Sirtuins and Implications for Metabolic Disease. Journal of Biological Chemistry, 2012, 287, 42436-42443.	1.6	187
90	HIV Latency Is Established Directly and Early in Both Resting and Activated Primary CD4 T Cells. PLoS Pathogens, 2015, 11, e1004955.	2.1	187

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91	Reactivation of latent HIV by histone deacetylase inhibitors. Trends in Microbiology, 2013, 21, 277-285.	3.5	186
92	Sirtuinâ€3 (SIRT3), a novel potential therapeutic target for oral cancer. Cancer, 2011, 117, 1670-1678.	2.0	184
93	Histone deacetylase HDAC8 associates with smooth muscle Î±â€actin and is essential for smooth muscle cell contractility. FASEB Journal, 2005, 19, 966-968.	0.2	183
94	The mTOR Complex Controls HIV Latency. Cell Host and Microbe, 2016, 20, 785-797.	5.1	179
95	Mutations in thetatGene Are Responsible for Human Immunodeficiency Virus Type 1 Postintegration Latency in the U1 Cell Line. Journal of Virology, 1998, 72, 1666-1670.	1.5	174
96	Histone acetyltransferases regulate HIV-1 enhancer activity inâ€‰vitro. Genes and Development, 1997, 11, 3327-3340.	2.7	171
97	Reduced Mobility of the Alternate Splicing Factor (Asf) through the Nucleoplasm and Steady State Speckle Compartments. Journal of Cell Biology, 2000, 150, 41-52.	2.3	168
98	DNase I-hypersensitive sites are associated with both long terminal repeats and with the intragenic enhancer of integrated human immunodeficiency virus type 1. Journal of Virology, 1991, 65, 6790-6799.	1.5	163
99	MicroRNAs of the miR-17â^¼92 family are critical regulators of TFH differentiation. Nature Immunology, 2013, 14, 849-857.	7.0	162
100	Distinct Circadian Signatures in Liver and Gut Clocks Revealed by Ketogenic Diet. Cell Metabolism, 2017, 26, 523-538.e5.	7.2	162
101	Whole-organism screening for gluconeogenesis identifies activators of fasting metabolism. Nature Chemical Biology, 2013, 9, 97-104.	3.9	161
102	The emerging role of class II histone deacetylases. Biochemistry and Cell Biology, 2001, 79, 337-348.	0.9	160
103	Structureâ€“Activity Studies on Splitomicin Derivatives as Sirtuin Inhibitors and Computational Prediction of Binding Mode. Journal of Medicinal Chemistry, 2008, 51, 1203-1213.	2.9	159
104	SIRT3 Regulates Mitochondrial Protein Acetylation and Intermediary Metabolism. Cold Spring Harbor Symposia on Quantitative Biology, 2011, 76, 267-277.	2.0	159
105	A point mutation in the HIV-1 Tat responsive element is associated with postintegration latency.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 6377-6381.	3.3	158
106	Two-pronged Binding with Bromodomain-containing Protein 4 Liberates Positive Transcription Elongation Factor b from Inactive Ribonucleoprotein Complexes. Journal of Biological Chemistry, 2012, 287, 1090-1099.	1.6	154
107	Impairment of Angiogenesis by Fatty Acid Synthase Inhibition Involves mTOR Malonylation. Cell Metabolism, 2018, 28, 866-880.e15.	7.2	154
108	Repressive LTR Nucleosome Positioning by the BAF Complex Is Required for HIV Latency. PLoS Biology, 2011, 9, e1001206.	2.6	153

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109	Adenosine Mimetics as Inhibitors of NAD+-Dependent Histone Deacetylases, from Kinase to Sirtuin Inhibition. Journal of Medicinal Chemistry, 2006, 49, 7307-7316.	2.9	152
110	The SWI/SNF Chromatin-remodeling Complex Is a Cofactor for Tat Transactivation of the HIV Promoter. Journal of Biological Chemistry, 2006, 281, 19960-19968.	1.6	152
111	SIRT3 Blocks Aging-Associated Tissue Fibrosis in Mice by Deacetylating and Activating Glycogen Synthase Kinase 3Î². Molecular and Cellular Biology, 2016, 36, 678-692.	1.1	150
112	Sirtuin 3 (SIRT3) Protein Regulates Long-chain Acyl-CoA Dehydrogenase by Deacetylating Conserved Lysines Near the Active Site. Journal of Biological Chemistry, 2013, 288, 33837-33847.	1.6	147
113	Conserved Enzymatic Production and Biological Effect of O-Acetyl-ADP-ribose by Silent Information Regulator 2-like NAD+-dependent Deacetylases. Journal of Biological Chemistry, 2002, 277, 12632-12641.	1.6	145
114	HDAC4 represses p21WAF1/Cip1 expression in human cancer cells through a Sp1-dependent, p53-independent mechanism. Oncogene, 2009, 28, 243-256.	2.6	140
115	Three Novel Acetylation Sites in the Foxp3 Transcription Factor Regulate the Suppressive Activity of Regulatory T Cells. Journal of Immunology, 2012, 188, 2712-2721.	0.4	137
116	Transcription factor binding sites downstream of the human immunodeficiency virus type 1 transcription start site are important for virus infectivity. Journal of Virology, 1997, 71, 6113-6127.	1.5	133
117	Mitotic Regulation of SIRT2 by Cyclin-dependent Kinase 1-dependent Phosphorylation. Journal of Biological Chemistry, 2007, 282, 19546-19555.	1.6	132
118	Distinct Mechanisms Trigger Apoptosis in Human Immunodeficiency Virus Type 1-Infected and in Uninfected Bystander T Lymphocytes. Journal of Virology, 1998, 72, 660-670.	1.5	132
119	SIRT4 regulates ATP homeostasis and mediates a retrograde signaling via AMPK. Aging, 2013, 5, 835-849.	1.4	130
120	Human immunodeficiency virus type 1 tropism for brain microglial cells is determined by a region of the env glycoprotein that also controls macrophage tropism. Journal of Virology, 1992, 66, 2588-2593.	1.5	127
121	Transcriptional synergy between Tat and PCAF is dependent on the binding of acetylated Tat to the PCAF bromodomain. EMBO Journal, 2002, 21, 2715-2723.	3.5	126
122	Regulatory signal transduction pathways for class IIa histone deacetylases. Current Opinion in Pharmacology, 2010, 10, 454-460.	1.7	126
123	Immunosenescence and HIV. Current Opinion in Immunology, 2012, 24, 501-506.	2.4	126
124	SIRT1 deacetylates RORÎ³t and enhances Th17 cell generation. Journal of Experimental Medicine, 2015, 212, 607-617.	4.2	126
125	Distinct chromatin functional states correlate with HIV latency reactivation in infected primary CD4+ T cells. ELife, 2018, 7, .	2.8	126
126	Protein Kinase D1 Phosphorylates HDAC7 and Induces Its Nuclear Export after T-cell Receptor Activation. Journal of Biological Chemistry, 2005, 280, 13762-13770.	1.6	125

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127	Reactivation of latent HIV-1 in central memory CD4+T cells through TLR-1/2 stimulation. Retrovirology, 2013, 10, 119.	0.9	124
128	Regulation of UCP1 and Mitochondrial Metabolism in Brown Adipose Tissue by Reversible Succinylation. Molecular Cell, 2019, 74, 844-857.e7.	4.5	123
129	Subtype Selective Substrates for Histone Deacetylases. Journal of Medicinal Chemistry, 2004, 47, 5235-5243.	2.9	121
130	Expression of Histone Deacetylase 8, a Class I Histone Deacetylase, Is Restricted to Cells Showing Smooth Muscle Differentiation in Normal Human Tissues. American Journal of Pathology, 2004, 165, 553-564.	1.9	117
131	Acetylation of Tat Defines a CyclinT1-Independent Step in HIV Transactivation. Molecular Cell, 2003, 12, 167-176.	4.5	113
132	Mitochondrial Acetylome Analysis in a Mouse Model of Alcohol-Induced Liver Injury Utilizing SIRT3 Knockout Mice. Journal of Proteome Research, 2012, 11, 1633-1643.	1.8	113
133	Anti-apoptotic Protein BIRC5 Maintains Survival of HIV-1-Infected CD4+ T Cells. Immunity, 2018, 48, 1183-1194.e5.	6.6	109
134	Telomere Dysfunction Induces Sirtuin Repression that Drives Telomere-Dependent Disease. Cell Metabolism, 2019, 29, 1274-1290.e9.	7.2	106
135	SIRT3 and cancer: Tumor promoter or suppressor?. Biochimica Et Biophysica Acta: Reviews on Cancer, 2011, 1816, 80-88.	3.3	105
136	Epigenetic regulation of HIV latency. Current Opinion in HIV and AIDS, 2011, 6, 19-24.	1.5	96
137	NAD ⁺ Repletion Reverses Heart Failure With Preserved Ejection Fraction. Circulation Research, 2021, 128, 1629-1641.	2.0	96
138	Metabolic reprogramming of human CD8+ memory T cells through loss of SIRT1. Journal of Experimental Medicine, 2018, 215, 51-62.	4.2	91
139	LEDGIN-mediated Inhibition of Integraseâ€“LEDGF/p75 Interaction Reduces Reactivation of Residual Latent HIV. EBioMedicine, 2016, 8, 248-264.	2.7	90
140	The Cellular Lysine Methyltransferase Set7/9-KMT7 Binds HIV-1 TAR RNA, Monomethylates the Viral Transactivator Tat, and Enhances HIV Transcription. Cell Host and Microbe, 2010, 7, 234-244.	5.1	88
141	Breast cancer associated transcriptional repressor PLU-1/JARID1B interacts directly with histone deacetylases. International Journal of Cancer, 2007, 121, 265-275.	2.3	87
142	Ketone Ester Treatment Improves Cardiac Function and Reduces Pathologic Remodeling in Preclinical Models of Heart Failure. Circulation: Heart Failure, 2021, 14, e007684.	1.6	87
143	SIRT1 and SIRT3 Deacetylate Homologous Substrates: AceCS1,2 and HMGCS1,2. Aging, 2011, 3, 635-642.	1.4	85
144	Nonisotopic substrate for assaying both human zinc and NAD+-dependent histone deacetylases. Analytical Biochemistry, 2003, 319, 42-48.	1.1	84

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145	The Flavoring Agent Dihydrocoumarin Reverses Epigenetic Silencing and Inhibits Sirtuin Deacetylases. PLoS Genetics, 2005, 1, e77.	1.5	82
146	Dietary restriction attenuates ageâ€associated muscle atrophy by lowering oxidative stress in mice even in complete absence of CuZnSOD. Aging Cell, 2012, 11, 770-782.	3.0	82
147	Aging Promotes Sirtuin 3â€“Dependent Cartilage Superoxide Dismutase 2 Acetylation and Osteoarthritis. Arthritis and Rheumatology, 2016, 68, 1887-1898.	2.9	82
148	SIRT3 and SIRT5 Regulate the Enzyme Activity and Cardiolipin Binding of Very Long-Chain Acyl-CoA Dehydrogenase. PLoS ONE, 2015, 10, e0122297.	1.1	81
149	A transcriptional regulatory element is associated with a nuclease-hypersensitive site in the pol gene of human immunodeficiency virus type 1. Journal of Virology, 1994, 68, 2632-2648.	1.5	78
150	Characterising proteolysis during SARS-CoV-2 infection identifies viral cleavage sites and cellular targets with therapeutic potential. Nature Communications, 2021, 12, 5553.	5.8	76
151	The Serum Response Factor and a Putative Novel Transcription Factor Regulate Expression of the Immediate-Early GeneArc/Arg3.1in Neurons. Journal of Neuroscience, 2009, 29, 1525-1537.	1.7	75
152	Histone Deacetylase 7 Regulates Cell Survival and TCR Signaling in CD4/CD8 Double-Positive Thymocytes. Journal of Immunology, 2011, 186, 4782-4793.	0.4	74
153	Dual-color HIV reporters trace a population of latently infected cells and enable their purification. Virology, 2013, 446, 283-292.	1.1	74
154	Phenylalanine-containing hydroxamic acids as selective inhibitors of class IIb histone deacetylases (HDACs). Bioorganic and Medicinal Chemistry, 2008, 16, 2011-2033.	1.4	73
155	Stress Response and Aging. Science, 2009, 323, 1021-1022.	6.0	73
156	A Novel Corepressor, BCoR-L1, Represses Transcription through an Interaction with CtBP. Journal of Biological Chemistry, 2007, 282, 15248-15257.	1.6	72
157	Myosin phosphatase dephosphorylates HDAC7, controls its nucleocytoplasmic shuttling, and inhibits apoptosis in thymocytes. Genes and Development, 2007, 21, 638-643.	2.7	72
158	HIV latency: experimental systems and molecular models. FEMS Microbiology Reviews, 2012, 36, 706-716.	3.9	72
159	MicroRNA-155 Reinforces HIV Latency. Journal of Biological Chemistry, 2015, 290, 13736-13748.	1.6	72
160	SIRT3 blocks myofibroblast differentiation and pulmonary fibrosis by preventing mitochondrial DNA damage. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2017, 312, L68-L78.	1.3	70
161	Acetate metabolism and aging: An emerging connection. Mechanisms of Ageing and Development, 2010, 131, 511-516.	2.2	67
162	Histone Deacetylase 7 and FoxA1 in Estrogen-Mediated Repression of RPRM. Molecular and Cellular Biology, 2010, 30, 399-412.	1.1	67

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163	The Many Faces of Sirtuins: Coupling of NAD metabolism, sirtuins and lifespan. Nature Medicine, 2014, 20, 25-27.	15.2	65
164	Sirt4 is a mitochondrial regulator of metabolism and lifespan in Drosophila melanogaster. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1564-1569.	3.3	64
165	The restricted nature of HIV-1 tropism for cultured neural cells. Virology, 1992, 191, 813-825.	1.1	63
166	Dietary Restriction: Standing Up for Sirtuins. Science, 2010, 329, 1012-1013.	6.0	63
167	Protein-DNA interactions within DNase I-hypersensitive sites located downstream of the HIV-1 promoter.. Journal of Biological Chemistry, 1994, 269, 19916-19924.	1.6	62
168	Thiobarbiturates as Sirtuin Inhibitors: Virtual Screening, Freeâ€Energy Calculations, and Biological Testing. ChemMedChem, 2008, 3, 1965-1976.	1.6	59
169	Screening of histone deacetylases (HDAC) expression in human prostate cancer reveals distinct class I HDAC profiles between epithelial and stromal cells. European Journal of Histochemistry, 2004, 48, 273-90.	0.6	59
170	Histone Deacetylase 7 Functions as a Key Regulator of Genes Involved in both Positive and Negative Selection of Thymocytes. Molecular and Cellular Biology, 2007, 27, 5184-5200.	1.1	58
171	Inhibitors of the NAD⁺-Dependent Protein Desuccinylase and Demalonylase Sirt5. ACS Medicinal Chemistry Letters, 2012, 3, 1050-1053.	1.3	58
172	Protein-DNA interactions within DNase I-hypersensitive sites located downstream of the HIV-1 promoter. Journal of Biological Chemistry, 1994, 269, 19916-24.	1.6	57
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