David B Lombard

List of Publications by Year
in descending order

82 papers	16,090 citations	57758 44 h-index	71685 76 g-index
117 all docs	117 docs citations	117 times ranked	18857 citing authors

#	Article	IF	Citations
1	Genomic Instability and Aging-like Phenotype in the Absence of Mammalian SIRT6. Cell, 2006, 124, 315-329.	28.9	1,399
2	SIRT3 regulates mitochondrial fatty-acid oxidation by reversible enzyme deacetylation. Nature, 2010, 464, 121-125.	27.8	1,388
3	A role for the NAD-dependent deacetylase Sirt1 in the regulation of autophagy. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 3374-3379.	7.1	1,290
4	Mammalian Sir2 Homolog SIRT3 Regulates Global Mitochondrial Lysine Acetylation. Molecular and Cellular Biology, 2007, 27, 8807-8814.	2.3	1,097
5	DNA Repair, Genome Stability, and Aging. Cell, 2005, 120, 497-512.	28.9	824
6	SIRT5-Mediated Lysine Desuccinylation Impacts Diverse Metabolic Pathways. Molecular Cell, 2013, 50, 919-930.	9.7	786
7	Lysine Glutarylation Is a Protein Posttranslational Modification Regulated by SIRT5. Cell Metabolism, 2014, 19, 605-617.	16.2	647
8	The First Identification of Lysine Malonylation Substrates and Its Regulatory Enzyme. Molecular and Cellular Proteomics, 2011, 10, M111.012658.	3.8	598
9	The Histone Deacetylase SIRT6 Is a Tumor Suppressor that Controls Cancer Metabolism. Cell, 2012, 151, 1185-1199.	28.9	561
10	Mice Lacking Histone Deacetylase 6 Have Hyperacetylated Tubulin but Are Viable and Develop Normally. Molecular and Cellular Biology, 2008, 28, 1688-1701.	2.3	489
11	Essential role of limiting telomeres in the pathogenesis of Werner syndrome. Nature Genetics, 2004, 36, 877-882.	21.4	436
12	SIRT3 Deacetylates Mitochondrial 3-Hydroxy-3-Methylglutaryl CoA Synthase 2 and Regulates Ketone Body Production. Cell Metabolism, 2010, 12, 654-661.	16.2	418
13	Metabolic Regulation of Gene Expression by Histone Lysine Î²-Hydroxybutyrylation. Molecular Cell, 2016, 62, 194-206.	9.7	406
14	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.	7.1	403
15	The sirtuin SIRT6 blocks IGF-Akt signaling and development of cardiac hypertrophy by targeting c-Jun. Nature Medicine, 2012, 18, 1643-1650.	30.7	400
16	Structure, expression, and T cell costimulatory activity of the murine homologue of the human B lymphocyte activation antigen B7.. Journal of Experimental Medicine, 1991, 174, 625-631.	8.5	332
17	Sirtuins: guardians of mammalian healthspan. Trends in Genetics, 2014, 30, 271-286.	6.7	264
18	H2AX Prevents DNA Breaks from Progressing to Chromosome Breaks and Translocations. Molecular Cell, 2006, 21, 201-214.	9.7	258

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19	Leaky Scid Phenotype Associated with Defective V(D)J Coding End Processing in Artemis-Deficient Mice. Molecular Cell, 2002, 10, 1379-1390.	9.7	247
20	Mammalian SIRT1 limits replicative life span in response to chronic genotoxic stress. Cell Metabolism, 2005, 2, 67-76.	16.2	242
21	Calorie restriction alters mitochondrial protein acetylation. Aging Cell, 2009, 8, 604-606.	6.7	231
22	The sirtuin SIRT6 deacetylates H3 K56Ac in vivo to promote genomic stability. Cell Cycle, 2009, 8, 2662-2663.	2.6	229
23	Telomere Shortening Exposes Functions for the Mouse Werner and Bloom Syndrome Genes. Molecular and Cellular Biology, 2004, 24, 8437-8446.	2.3	206
24	Nucleolar localization of the Werner syndrome protein in human cells. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 6887-6892.	7.1	201
25	Mutations in the WRN Gene in Mice Accelerate Mortality in a p53-Null Background. Molecular and Cellular Biology, 2000, 20, 3286-3291.	2.3	179
26	Defective DNA Repair and Increased Genomic Instability in Artemis-deficient Murine Cells. Journal of Experimental Medicine, 2003, 197, 553-565.	8.5	178
27	Functions of the sirtuin deacylase SIRT5 in normal physiology and pathobiology. Critical Reviews in Biochemistry and Molecular Biology, 2018, 53, 311-334.	5.2	162
28	Neural sirtuin 6 (Sirt6) ablation attenuates somatic growth and causes obesity. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21790-21794.	7.1	160
29	Proteomic and Biochemical Studies of Lysine Malonylation Suggest Its Malonic Aciduria-associated Regulatory Role in Mitochondrial Function and Fatty Acid Oxidation. Molecular and Cellular Proteomics, 2015, 14, 3056-3071.	3.8	143
30	The NAD-dependent deacetylase SIRT2 is required for programmed necrosis. Nature, 2012, 492, 199-204.	27.8	131
31	SIRT6 in DNA repair, metabolism and ageing. Journal of Internal Medicine, 2008, 263, 128-141.	6.0	126
32	Mitochondrial Sirtuins and Their Relationships with Metabolic Disease and Cancer. Antioxidants and Redox Signaling, 2015, 22, 1060-1077.	5.4	121
33	Emerging Roles for SIRT5 in Metabolism and Cancer. Antioxidants and Redox Signaling, 2018, 28, 677-690.	5.4	109
34	Mitochondrial Sirtuins in the Regulation of Mitochondrial Activity and Metabolic Adaptation. Handbook of Experimental Pharmacology, 2011, 206, 163-188.	1.8	108
35	A Pan-ALDH1A Inhibitor Induces Necroptosis in Ovarian Cancer Stem-like Cells. Cell Reports, 2019, 26, 3061-3075.e6.	6.4	108
36	Melanoma models for the next generation of therapies. Cancer Cell, 2021, 39, 610-631.	16.8	90

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37	Cross-talk between Sirtuin and Mammalian Target of Rapamycin Complex 1 (mTORC1) Signaling in the Regulation of S6 Kinase 1 (S6K1) Phosphorylation. Journal of Biological Chemistry, 2014, 289, 13132-13141.	3.4	85
38	SIRT3: As Simple As It Seems?. Gerontology, 2014, 60, 56-64.	2.8	75
39	Interplay between sirtuins, MYC and hypoxia-inducible factor in cancer-associated metabolic reprogramming. DMM Disease Models and Mechanisms, 2014, 7, 1023-32.	2.4	73
40	Sirtuin 1 Regulates Dendritic Cell Activation and Autophagy during Respiratory Syncytial Virusâ€"Induced Immune Responses. Journal of Immunology, 2015, 195, 1637-1646.	0.8	71
41	SIRT3â€dependent deacetylation exacerbates acetaminophen hepatotoxicity. EMBO Reports, 2011, 12, 840-846.	4.5	70
42	SIRT3 Deacetylates Ceramide Synthases. Journal of Biological Chemistry, 2016, 291, 1957-1973.	3.4	63
43	C. elegans SIRT6/7 Homolog SIR-2.4 Promotes DAF-16 Relocalization and Function during Stress. PLoS Genetics, 2012, 8, e1002948.	3.5	58
44	Malignant Peripheral Nerve Sheath Tumors: From Epigenome to Bedside. Molecular Cancer Research, 2019, 17, 1417-1428.	3.4	52
45	Canagliflozin extends life span in genetically heterogeneous male but not female mice. JCI Insight, 2020, 5, .	5.0	51
46	SIRT3 Regulates Macrophage-Mediated Inflammation in Diabetic Wound Repair. Journal of Investigative Dermatology, 2019, 139, 2528-2537.e2.	0.7	46
47	Sirtuin 1 regulates mitochondrial function and immune homeostasis in respiratory syncytial virus infected dendritic cells. PLoS Pathogens, 2020, 16, e1008319.	4.7	45
48	Longevity hits a roadblock. Nature, 2011, 477, 410-411.	27.8	44
49	Association of the <i>POT1</i> Germline Missense Variant p.I78T With Familial Melanoma. JAMA Dermatology, 2019, 155, 604.	4.1	34
50	Sirtuins at the Breaking Point: SIRT6 in DNA Repair. Aging, 2009, 1, 12-16.	3.1	34
51	Identification of sirtuin 5 inhibitors by ultrafast microchip electrophoresis using nanoliter volume samples. Analytical and Bioanalytical Chemistry, 2016, 408, 721-731.	3.7	30
52	Combined MAPK Pathway and HDAC Inhibition Breaks Melanoma. Cancer Discovery, 2019, 9, 469-471.	9.4	27
53	The deacylase SIRT5 supports melanoma viability by influencing chromatin dynamics. Journal of Clinical Investigation, 2021, 131, .	8.2	23
54	Mitochondrial Deacetylase SIRT3 Plays an Important Role in Donor T Cell Responses after Experimental Allogeneic Hematopoietic Transplantation. Journal of Immunology, 2018, 201, 3443-3455.	0.8	22

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55	A role for keratins in supporting mitochondrial organization and function in skin keratinocytes. Molecular Biology of the Cell, 2020, 31, 1103-1111.	2.1	22
56	Finding Ponce de Leonâ€™s Pill: Challenges in Screening for Anti-Aging Molecules. F1000Research, 2016, 5, 406.	1.6	20
57	Mitochondrial SIRT4-type proteins in Caenorhabditis elegans and mammals interact with pyruvate carboxylase and other acetylated biotin-dependent carboxylases. Mitochondrion, 2013, 13, 705-720.	3.4	18
58	For Certain, SIRT4 Activities!. Trends in Biochemical Sciences, 2017, 42, 499-501.	7.5	18
59	SIRT3 as a regulator of hepatic autophagy. Hepatology, 2017, 66, 700-702.	7.3	17
60	Sorting out the sirtuins. Nature, 2012, 483, 166-167.	27.8	14
61	Mass Spectrometry-Based Detection of Protein Acetylation. Methods in Molecular Biology, 2013, 1077, 81-104.	0.9	13
62	High-throughput small molecule screening reveals Nrf2-dependent and -independent pathways of cellular stress resistance. Science Advances, 2020, 6, .	10.3	12
63	Acetylâ€ed question in mitochondrial biology?. EMBO Journal, 2015, 34, 2597-2600.	7.8	9
64	Analysis of the Role of RecQ Helicases in RNAi in Mammals. Biochemical and Biophysical Research Communications, 2002, 291, 1119-1122.	2.1	8
65	Aging, Disease, and Longevity in Mice. Annual Review of Gerontology and Geriatrics, 2014, 34, 93-138.	0.5	8
66	Generation and Purification of Catalytically Active Recombinant Sirtuin5 (SIRT5) Protein. Methods in Molecular Biology, 2016, 1436, 241-257.	0.9	7
67	Sirtuin 5 levels are limiting in preserving cardiac function and suppressing fibrosis in response to pressure overload. Scientific Reports, 2022, 12, .	3.3	6
68	Sirtuins, Healthspan, and Longevity in Mammals. , 2016, , 83-132.		5
69	ER stress protein PERK promotes inappropriate innate immune responses and pathogenesis during RSV infection. Journal of Leukocyte Biology, 2022, 111, 379-389.	3.3	5
70	Assessment of Cellular Bioenergetics in Mouse Hematopoietic Stem and Primitive Progenitor Cells using the Extracellular Flux Analyzer. Journal of Visualized Experiments, 2021, , .	0.3	4
71	ACSF3 and Mal(onate)-Adapted Mitochondria. Cell Chemical Biology, 2017, 24, 649-650.	5.2	3
72	Cycling around Lysine Modifications. Trends in Biochemical Sciences, 2017, 42, 501-503.	7.5	3

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73	Sirtuin 6 Builds a Wall Against Inflammation, Trumping Diabetes. Diabetes, 2017, 66, 2535-2537.	0.6	3
74	Roles for Sirtuins in Cardiovascular Biology. , 2018, , 155-173.		3
75	An optimized desuccinylase activity assay reveals a difference in desuccinylation activity between proliferative and differentiated cells. Scientific Reports, 2020, 10, 17030.	3.3	3
76	Canagliflozin Increases Intestinal Adenoma Burden in Female ApcMin/+ Mice. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2022, 77, 215-220.	3.6	3
77	Sirtuins, healthspan, and longevity in mammals. , 2021, , 77-149.		2
78	Mitochondrial Regulation by Protein Acetylation. Oxidative Stress and Disease, 2012, , 269-298.	0.3	1
79	Diverse Roles for SIRT6 in Mammalian Healthspan and Longevity. , 2016, , 149-170.		1
80	SIRT5â€™s GOT1 up on PDAC. Gastroenterology, 2021, 161, 1376-1378.	1.3	1
81	Mammalian SIRT1 limits replicative life span in response to chronic genotoxic stress. Cell Metabolism, 2006, 3, 75.	16.2	0
82	â€œMPNST Epigeneticsâ€â€"Response. Molecular Cancer Research, 2019, 17, 2140-2140.	3.4	0