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	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
2	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
3	Sirtuin 5 levels are limiting in preserving cardiac function and suppressing fibrosis in response to pressure overload. Scientific Reports, 2022, 12, .	3.3	6
4	Sirtuins, healthspan, and longevity in mammals. , 2021, , 77-149.		2
5	Melanoma models for the next generation of therapies. Cancer Cell, 2021, 39, 610-631.	16.8	90
6	The deacylase SIRT5 supports melanoma viability by influencing chromatin dynamics. Journal of Clinical Investigation, 2021, 131, .	8.2	23
7	SIRT5â€™s GOT1 up on PDAC. Gastroenterology, 2021, 161, 1376-1378.	1.3	1
8	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
9	High-throughput small molecule screening reveals Nrf2-dependent and -independent pathways of cellular stress resistance. Science Advances, 2020, 6, .	10.3	12
10	An optimized desuccinylase activity assay reveals a difference in desuccinylation activity between proliferative and differentiated cells. Scientific Reports, 2020, 10, 17030.	3.3	3
11	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
12	Sirtuin 1 regulates mitochondrial function and immune homeostasis in respiratory syncytial virus infected dendritic cells. PLoS Pathogens, 2020, 16, e1008319.	4.7	45
13	Canagliflozin extends life span in genetically heterogeneous male but not female mice. JCI Insight, 2020, 5, .	5.0	51
14	SIRT3 Regulates Macrophage-Mediated Inflammation in Diabetic Wound Repair. Journal of Investigative Dermatology, 2019, 139, 2528-2537.e2.	0.7	46
15	Malignant Peripheral Nerve Sheath Tumors: From Epigenome to Bedside. Molecular Cancer Research, 2019, 17, 1417-1428.	3.4	52
16	A Pan-ALDH1A Inhibitor Induces Necroptosis in Ovarian Cancer Stem-like Cells. Cell Reports, 2019, 26, 3061-3075.e6.	6.4	108
17	Combined MAPK Pathway and HDAC Inhibition Breaks Melanoma. Cancer Discovery, 2019, 9, 469-471.	9.4	27
18	Association of the <i>POT1</i> Germline Missense Variant p.I78T With Familial Melanoma. JAMA Dermatology, 2019, 155, 604.	4.1	34

#	Article	IF	Citations
19	â€œMPNST Epigeneticsâ€â€"Response. Molecular Cancer Research, 2019, 17, 2140-2140.	3.4	0
20	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
21	Roles for Sirtuins in Cardiovascular Biology. , 2018, , 155-173.		3
22	Emerging Roles for SIRT5 in Metabolism and Cancer. Antioxidants and Redox Signaling, 2018, 28, 677-690.	5.4	109
23	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
24	SIRT3 as a regulator of hepatic autophagy. Hepatology, 2017, 66, 700-702.	7.3	17
25	ACSF3 and Mal(onate)-Adapted Mitochondria. Cell Chemical Biology, 2017, 24, 649-650.	5.2	3
26	For Certain, SIRT4 Activities!. Trends in Biochemical Sciences, 2017, 42, 499-501.	7.5	18
27	Cycling around Lysine Modifications. Trends in Biochemical Sciences, 2017, 42, 501-503.	7.5	3
28	Sirtuin 6 Builds a Wall Against Inflammation, Trumping Diabetes. Diabetes, 2017, 66, 2535-2537.	0.6	3
29	Finding Ponce de Leonâ€™s Pill: Challenges in Screening for Anti-Aging Molecules. F1000Research, 2016, 5, 406.	1.6	20
30	Diverse Roles for SIRT6 in Mammalian Healthspan and Longevity. , 2016, , 149-170.		1
31	Metabolic Regulation of Gene Expression by Histone Lysine Î²-Hydroxybutyrylation. Molecular Cell, 2016, 62, 194-206.	9.7	406
32	Generation and Purification of Catalytically Active Recombinant Sirtuin5 (SIRT5) Protein. Methods in Molecular Biology, 2016, 1436, 241-257.	0.9	7
33	Sirtuins, Healthspan, and Longevity in Mammals. , 2016, , 83-132.		5
34	Identification of sirtuin 5 inhibitors by ultrafast microchip electrophoresis using nanoliter volume samples. Analytical and Bioanalytical Chemistry, 2016, 408, 721-731.	3.7	30
35	SIRT3 Deacetylates Ceramide Synthases. Journal of Biological Chemistry, 2016, 291, 1957-1973.	3.4	63
36	Acetylâ€ed question in mitochondrial biology?. EMBO Journal, 2015, 34, 2597-2600.	7.8	9

#	Article	IF	Citations
37	Mitochondrial Sirtuins and Their Relationships with Metabolic Disease and Cancer. Antioxidants and Redox Signaling, 2015, 22, 1060-1077.	5.4	121
38	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
39	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
40	Aging, Disease, and Longevity in Mice. Annual Review of Gerontology and Geriatrics, 2014, 34, 93-138.	0.5	8
41	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
42	Lysine Glutarylation Is a Protein Posttranslational Modification Regulated by SIRT5. Cell Metabolism, 2014, 19, 605-617.	16.2	647
43	SIRT3: As Simple As It Seems?. Gerontology, 2014, 60, 56-64.	2.8	75
44	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
45	Sirtuins: guardians of mammalian healthspan. Trends in Genetics, 2014, 30, 271-286.	6.7	264
46	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
47	SIRT5-Mediated Lysine Desuccinylation Impacts Diverse Metabolic Pathways. Molecular Cell, 2013, 50, 919-930.	9.7	786
48	Mass Spectrometry-Based Detection of Protein Acetylation. Methods in Molecular Biology, 2013, 1077, 81-104.	0.9	13
49	C. elegans SIRT6/7 Homolog SIR-2.4 Promotes DAF-16 Relocalization and Function during Stress. PLoS Genetics, 2012, 8, e1002948.	3.5	58
50	Mitochondrial Regulation by Protein Acetylation. Oxidative Stress and Disease, 2012, , 269-298.	0.3	1
51	The NAD-dependent deacetylase SIRT2 is required for programmed necrosis. Nature, 2012, 492, 199-204.	27.8	131
52	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
53	The Histone Deacetylase SIRT6 Is a Tumor Suppressor that Controls Cancer Metabolism. Cell, 2012, 151, 1185-1199.	28.9	561
54	Sorting out the sirtuins. Nature, 2012, 483, 166-167.	27.8	14

#	Article	IF	Citations
55	Mitochondrial Sirtuins in the Regulation of Mitochondrial Activity and Metabolic Adaptation. Handbook of Experimental Pharmacology, 2011, 206, 163-188.	1.8	108
56	The First Identification of Lysine Malonylation Substrates and Its Regulatory Enzyme. Molecular and Cellular Proteomics, 2011, 10, M111.012658.	3.8	598
57	Longevity hits a roadblock. Nature, 2011, 477, 410-411.	27.8	44
58	SIRT3â€dependent deacetylation exacerbates acetaminophen hepatotoxicity. EMBO Reports, 2011, 12, 840-846.	4.5	70
59	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
60	SIRT3 regulates mitochondrial fatty-acid oxidation by reversible enzyme deacetylation. Nature, 2010, 464, 121-125.	27.8	1,388
61	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
62	SIRT3 Deacetylates Mitochondrial 3-Hydroxy-3-Methylglutaryl CoA Synthase 2 and Regulates Ketone Body Production. Cell Metabolism, 2010, 12, 654-661.	16.2	418
63	The sirtuin SIRT6 deacetylates H3 K56Ac in vivo to promote genomic stability. Cell Cycle, 2009, 8, 2662-2663.	2.6	229
64	Calorie restriction alters mitochondrial protein acetylation. Aging Cell, 2009, 8, 604-606.	6.7	231
65	Sirtuins at the Breaking Point: SIRT6 in DNA Repair. Aging, 2009, 1, 12-16.	3.1	34
66	SIRT6 in DNA repair, metabolism and ageing. Journal of Internal Medicine, 2008, 263, 128-141.	6.0	126
67	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
68	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
69	Mammalian Sir2 Homolog SIRT3 Regulates Global Mitochondrial Lysine Acetylation. Molecular and Cellular Biology, 2007, 27, 8807-8814.	2.3	1,097
70	Genomic Instability and Aging-like Phenotype in the Absence of Mammalian SIRT6. Cell, 2006, 124, 315-329.	28.9	1,399
71	Mammalian SIRT1 limits replicative life span in response to chronic genotoxic stress. Cell Metabolism, 2006, 3, 75.	16.2	0
72	H2AX Prevents DNA Breaks from Progressing to Chromosome Breaks and Translocations. Molecular Cell, 2006, 21, 201-214.	9.7	258

#	Article	IF	Citations
73	DNA Repair, Genome Stability, and Aging. Cell, 2005, 120, 497-512.	28.9	824
74	Mammalian SIRT1 limits replicative life span in response to chronic genotoxic stress. Cell Metabolism, 2005, 2, 67-76.	16.2	242
75	Telomere Shortening Exposes Functions for the Mouse Werner and Bloom Syndrome Genes. Molecular and Cellular Biology, 2004, 24, 8437-8446.	2.3	206
76	Essential role of limiting telomeres in the pathogenesis of Werner syndrome. Nature Genetics, 2004, 36, 877-882.	21.4	436
77	Defective DNA Repair and Increased Genomic Instability in Artemis-deficient Murine Cells. Journal of Experimental Medicine, 2003, 197, 553-565.	8.5	178
78	Analysis of the Role of RecQ Helicases in RNAi in Mammals. Biochemical and Biophysical Research Communications, 2002, 291, 1119-1122.	2.1	8
79	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
80	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
81	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
82	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