

Zachary A Lewis

List of Publications by Year in descending order

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42
papers

5,204
citations

304368

22
h-index

288905

40
g-index

47
all docs

47
docs citations

47
times ranked

7840
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid SNP Discovery and Genetic Mapping Using Sequenced RAD Markers. <i>PLoS ONE</i> , 2008, 3, e3376.	1.1	2,972
2	Diverse Pathways Generate MicroRNA-like RNAs and Dicer-Independent Small Interfering RNAs in Fungi. <i>Molecular Cell</i> , 2010, 38, 803-814.	4.5	361
3	DNA Methylation: Shared and Divergent Features across Eukaryotes. <i>Trends in Genetics</i> , 2019, 35, 818-827.	2.9	157
4	Regional control of histone H3 lysine 27 methylation in <i>Neurospora</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 6027-6032.	3.3	147
5	Relics of repeat-induced point mutation direct heterochromatin formation in <i>Neurospora crassa</i> . <i>Genome Research</i> , 2009, 19, 427-437.	2.4	137
6	vvd Is Required for Light Adaptation of Conidiation-Specific Genes of <i>Neurospora crassa</i> , but Not Circadian Conidiation. <i>Fungal Genetics and Biology</i> , 2001, 32, 169-181.	0.9	134
7	Multiple oscillators regulate circadian gene expression in <i>Neurospora</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 13597-13602.	3.3	132
8	Overexpression of White Collar-1 (WC-1) activates circadian clock-associated genes, but is not sufficient to induce most light-regulated gene expression in <i>Neurospora crassa</i> . <i>Molecular Microbiology</i> , 2002, 45, 917-931.	1.2	93
9	DNA Methylation and Normal Chromosome Behavior in <i>Neurospora</i> Depend on Five Components of a Histone Methyltransferase Complex, DCDC. <i>PLoS Genetics</i> , 2010, 6, e1001196.	1.5	93
10	CHD1 Remodels Chromatin and Influences Transient DNA Methylation at the Clock Gene frequency. <i>PLoS Genetics</i> , 2011, 7, e1002166.	1.5	84
11	Genome-wide redistribution of H3K27me3 is linked to genotoxic stress and defective growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E6339-48.	3.3	84
12	KdmB, a Jumonji Histone H3 Demethylase, Regulates Genome-Wide H3K4 Trimethylation and Is Required for Normal Induction of Secondary Metabolism in <i>Aspergillus nidulans</i> . <i>PLoS Genetics</i> , 2016, 12, e1006222.	1.5	68
13	Transcriptional response to glucose starvation and functional analysis of a glucose transporter of <i>Neurospora crassa</i> . <i>Fungal Genetics and Biology</i> , 2004, 41, 1104-1119.	0.9	66
14	Methylated DNA is over-represented in whole-genome bisulfite sequencing data. <i>Frontiers in Genetics</i> , 2014, 5, 341.	1.1	64
15	Heterochromatin protein 1 forms distinct complexes to direct histone deacetylation and DNA methylation. <i>Nature Structural and Molecular Biology</i> , 2012, 19, 471-477.	3.6	63
16	The maternal to zygotic transition regulates genome-wide heterochromatin establishment in the zebrafish embryo. <i>Nature Communications</i> , 2019, 10, 1551.	5.8	63
17	Two Circadian Timing Circuits in <i>Neurospora crassa</i> Cells Share Components and Regulate Distinct Rhythmic Processes. <i>Journal of Biological Rhythms</i> , 2006, 21, 159-168.	1.4	53
18	The DMM complex prevents spreading of DNA methylation from transposons to nearby genes in <i>Neurospora crassa</i> . <i>Genes and Development</i> , 2010, 24, 443-454.	2.7	49

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19	High-Density Detection of Restriction-Site-Associated DNA Markers for Rapid Mapping of Mutated Loci in <i>Neurospora</i> . <i>Genetics</i> , 2007, 177, 1163-1171.	1.2	42
20	Identification of DIM-7, a protein required to target the DIM-5 H3 methyltransferase to chromatin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 8310-8315.	3.3	41
21	Polycomb Group Systems in Fungi: New Models for Understanding Polycomb Repressive Complex 2. <i>Trends in Genetics</i> , 2017, 33, 220-231.	2.9	32
22	Dectin-1-Targeted Antifungal Liposomes Exhibit Enhanced Efficacy. <i>MSphere</i> , 2019, 4, .	1.3	27
23	Heterochromatin Controls $\text{H}^3\text{H}2\text{A}$ Localization in <i>Neurospora crassa</i> . <i>Eukaryotic Cell</i> , 2014, 13, 990-1000.	3.4	26
24	The LSH/DDM1 Homolog MUS-30 Is Required for Genome Stability, but Not for DNA Methylation in <i>Neurospora crassa</i> . <i>PLoS Genetics</i> , 2016, 12, e1005790.	1.5	23
25	Dectin-2-Targeted Antifungal Liposomes Exhibit Enhanced Efficacy. <i>MSphere</i> , 2019, 4, .	1.3	23
26	Histone H1 Limits DNA Methylation in <i>Neurospora crassa</i> . <i>G3: Genes, Genomes, Genetics</i> , 2016, 6, 1879-1889.	0.8	19
27	Transcription factor Znf2 coordinates with the chromatin remodeling SWI/SNF complex to regulate cryptococcal cellular differentiation. <i>Communications Biology</i> , 2019, 2, 412.	2.0	19
28	IMITATION SWITCH is required for normal chromatin structure and gene repression in PRC2 target domains. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	18
29	The <i>Neurospora</i> circadian clock regulates a transcription factor that controls rhythmic expression of the output <i>eas(ccg-2)</i> gene. <i>Molecular Microbiology</i> , 2002, 41, 897-909.	1.2	16
30	Normal Patterns of Histone H3K27 Methylation Require the Histone Variant H2A.Z in <i>Neurospora crassa</i> . <i>Genetics</i> , 2020, 216, 51-66.	1.2	14
31	Chromatin accessibility profiling in <i>Neurospora crassa</i> reveals molecular features associated with accessible and inaccessible chromatin. <i>BMC Genomics</i> , 2021, 22, 459.	1.2	13
32	The Cullin-4 Complex DCDC Does Not Require E3 Ubiquitin Ligase Elements To Control Heterochromatin in <i>Neurospora crassa</i> . <i>Eukaryotic Cell</i> , 2015, 14, 25-28.	3.4	11
33	Antifungal Liposomes Directed by Dectin-2 Offer a Promising Therapeutic Option for Pulmonary Aspergillosis. <i>MBio</i> , 2021, 12, .	1.8	11
34	Aiming for a bull's-eye: Targeting antifungals to fungi with dectin-decorated liposomes. <i>PLoS Pathogens</i> , 2021, 17, e1009699.	2.1	11
35	DectiSomes: Glycan Targeting of Liposomal Drugs Improves the Treatment of Disseminated Candidiasis. <i>Antimicrobial Agents and Chemotherapy</i> , 2022, 66, AAC0146721.	1.4	9
36	ChIP-Seq Analysis in <i>Neurospora crassa</i> . <i>Methods in Molecular Biology</i> , 2018, 1775, 241-250.	0.4	7

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37	DC-SIGN targets amphotericin B-loaded liposomes to diverse pathogenic fungi. <i>Fungal Biology and Biotechnology</i> , 2021, 8, 22.	2.5	7
38	Targeted Delivery of Antifungal Liposomes to <i>Rhizopus delemar</i> . <i>Journal of Fungi</i> (Basel, Switzerland), 2022, 8, 352.	1.5	5
39	Molecular Genetics of Circadian Rhythms in <i>Neurospora Crassa</i> . <i>Applied Mycology and Biotechnology</i> , 2003, 3, 43-63.	0.3	1
40	Shannon entropy as a metric for conditional gene expression in <i>Neurospora crassa</i> . <i>G3: Genes, Genomes, Genetics</i> , 2021, 11, .	0.8	1
41	1 Chromatin Structure and Function in <i>Neurospora crassa</i> . , 2020, , 3-24.		1
42	Chromatin Structure and Modification. , 2014, , 113-123.		0