Eric U Selker

List of Publications by Year
in descending order

72 papers	10,404 citations	76326 40 h-index	91884 69 g-index
111 all docs	111 docs citations	111 times ranked	7400 citing authors

#	Article	IF	Citations
1	The genome sequence of the filamentous fungus Neurospora crassa. Nature, 2003, 422, 859-868.	27.8	1,528
2	Sequencing of Aspergillus nidulans and comparative analysis with A. fumigatus and A. oryzae. Nature, 2005, 438, 1105-1115.	27.8	1,250
3	A histone H3 methyltransferase controls DNA methylation in Neurospora crassa. Nature, 2001, 414, 277-283.	27.8	946
4	Premeiotic Instability of Repeated Sequences in Neurospora crassa. Annual Review of Genetics, 1990, 24, 579-613.	7.6	694
5	Lessons from the Genome Sequence of<i>Neurospora crassa</i>: Tracing the Path from Genomic Blueprint to Multicellular Organism. Microbiology and Molecular Biology Reviews, 2004, 68, 1-108.	6.6	572
6	Diverse Pathways Generate MicroRNA-like RNAs and Dicer-Independent Small Interfering RNAs in Fungi. Molecular Cell, 2010, 38, 803-814.	9.7	361
7	Trimethylated lysine 9 of histone H3 is a mark for DNA methylation in Neurospora crassa. Nature Genetics, 2003, 34, 75-79.	21.4	351
8	Structural Basis for the Product Specificity of Histone Lysine Methyltransferases. Molecular Cell, 2003, 12, 177-185.	9.7	307
9	GFP as a tool to analyze the organization, dynamics and function of nuclei and microtubules in Neurospora crassa. Fungal Genetics and Biology, 2004, 41, 897-910.	2.1	306
10	Structure of the Neurospora SET Domain Protein DIM-5, a Histone H3 Lysine Methyltransferase. Cell, 2002, 111, 117-127.	28.9	247
11	The methylated component of the Neurospora crassa genome. Nature, 2003, 422, 893-897.	27.8	214
12	HP1 Is Essential for DNA Methylation in Neurospora. Molecular Cell, 2004, 13, 427-434.	9.7	207
13	H3K27 methylation: a promiscuous repressive chromatin mark. Current Opinion in Genetics and Development, 2017, 43, 31-37.	3.3	207
14	Trichostatin A causes selective loss of DNA methylation inNeurospora. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 9430-9435.	7.1	192
15	In Vitro and in Vivo Analyses of a Phe/Tyr Switch Controlling Product Specificity of Histone Lysine Methyltransferases. Journal of Biological Chemistry, 2005, 280, 5563-5570.	3.4	166
16	Dispersed 5S RNA genes in N. crassa: Structure, expression and evolution. Cell, 1981, 24, 819-828.	28.9	150
17	Regional control of histone H3 lysine 27 methylation in <i>Neurospora</i>. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 6027-6032.	7.1	147
18	Relics of repeat-induced point mutation direct heterochromatin formation in <i>Neurospora crassa</i>. Genome Research, 2009, 19, 427-437.	5.5	137

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19	Neurospora crassa, a Model System for Epigenetics Research. Cold Spring Harbor Perspectives in Biology, 2013, 5, a017921-a017921.	5.5	131
20	15 Repeat-induced gene silencing in fungi. Advances in Genetics, 2002, 46, 439-450.	1.8	127
21	DNA Methylation Is Independent of RNA Interference in Neurospora. Science, 2004, 304, 1939-1939.	12.6	116
22	Direct Interaction between DNA Methyltransferase DIM-2 and HP1 Is Required for DNA Methylation in <i>Neurospora crassa</i>. Molecular and Cellular Biology, 2008, 28, 6044-6055.	2.3	116
23	Tools for Fungal Proteomics: Multifunctional Neurospora Vectors for Gene Replacement, Protein Expression and Protein Purification. Genetics, 2009, 182, 11-23.	2.9	114
24	A Methylated Neurospora 5S rRNA Pseudogene Contains a Transposable Element Inactivated by Repeat-Induced Point Mutation. Genetics, 1998, 149, 1787-1797.	2.9	99
25	Loss of HP1 causes depletion of H3K27me3 from facultative heterochromatin and gain of H3K27me2 at constitutive heterochromatin. Genome Research, 2016, 26, 97-107.	5.5	96
26	Organization of ribosomal RNA genes in the fungus Cochliobolus heterostrophus. Current Genetics, 1988, 14, 573-582.	1.7	93
27	DNA Methylation and Normal Chromosome Behavior in Neurospora Depend on Five Components of a Histone Methyltransferase Complex, DCDC. PLoS Genetics, 2010, 6, e1001196.	3.5	93
28	Methylation of Histone H3 Lysine 36 Is Required for Normal Development in Neurospora crassa. Eukaryotic Cell, 2005, 4, 1455-1464.	3.4	88
29	Short TpA-rich segments of the Î¶-Î· region induce DNA methylation in Neurospora crassa 1 1Edited by K. Yamamoto. Journal of Molecular Biology, 2000, 300, 249-273.	4.2	72
30	The fungus Neurospora crassa displays telomeric silencing mediated by multiple sirtuins and by methylation of histone H3 lysine 9. Epigenetics and Chromatin, 2008, 1, 5.	3.9	72
31	The common ancestral core of vertebrate and fungal telomerase RNAs. Nucleic Acids Research, 2013, 41, 450-462.	14.5	70
32	Cytosine Methylation Associated With Repeat-Induced Point Mutation Causes Epigenetic Gene Silencing in <i>Neurospora crassa</i>. Genetics, 1997, 146, 509-523.	2.9	67
33	<i>Neurospora</i> chromosomes are organized by blocks of importin alpha-dependent heterochromatin that are largely independent of H3K9me3. Genome Research, 2016, 26, 1069-1080.	5.5	64
34	Synthesis of Signals for De Novo DNA Methylation in Neurospora crassa. Molecular and Cellular Biology, 2003, 23, 2379-2394.	2.3	63
35	Heterochromatin protein 1 forms distinct complexes to direct histone deacetylation and DNA methylation. Nature Structural and Molecular Biology, 2012, 19, 471-477.	8.2	63
36	Normal chromosome conformation depends on subtelomeric facultative heterochromatin in <i>Neurospora crassa</i>. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 15048-15053.	7.1	55

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37	Characterization of Chromosome Ends in the Filamentous Fungus<i>Neurospora crassa</i>. Genetics, 2009, 181, 1129-1145.	2.9	52
38	ASH1-catalyzed H3K36 methylation drives gene repression and marks H3K27me2/3-competent chromatin. ELife, 2018, 7, .	6.0	50
39	The DMM complex prevents spreading of DNA methylation from transposons to nearby genes in <i>Neurospora crassa</i>. Genes and Development, 2010, 24, 443-454.	5.9	49
40	Induction and maintenance of nonsymmetrical DNA methylation in Neurospora. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 16485-16490.	7.1	46
41	REVERSAL OF A NEUROSPORA TRANSLOCATION BY CROSSING OVER INVOLVING DISPLACED rDNA, AND METHYLATION OF THE rDNA SEGMENTS THAT RESULT FROM RECOMBINATION. Genetics, 1986, 114, 791-817.	2.9	44
42	Identification of DIM-7, a protein required to target the DIM-5 H3 methyltransferase to chromatin. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 8310-8315.	7.1	41
43	Occurrence of Repeat Induced Point Mutation in Long Segmental Duplications of Neurospora. Genetics, 1997, 147, 125-136.	2.9	40
44	Mutations affecting the biosynthesis of S-adenosylmethionine cause reduction of DNA methylation inNeurospora crassa. Nucleic Acids Research, 1995, 23, 4818-4826.	14.5	38
45	H2B- and H3-Specific Histone Deacetylases Are Required for DNA Methylation in <i>Neurospora crassa</i>. Genetics, 2010, 186, 1207-1216.	2.9	38
46	Protein phosphatase PP1 is required for normal DNA methylation in <i>Neurospora</i>. Genes and Development, 2008, 22, 3391-3396.	5.9	32
47	Recurrent rewiring and emergence of RNA regulatory networks. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E2816-E2825.	7.1	32
48	Evolutionarily ancient BAHâ€“PHD protein mediates Polycomb silencing. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 11614-11623.	7.1	30
49	Telomere repeats induce domains of H3K27 methylation in Neurospora. ELife, 2018, 7, .	6.0	30
50	Epigenetic Control of a Transposon-Inactivated Gene in Neurospora is Dependent on DNA Methylation. Genetics, 1996, 143, 137-146.	2.9	29
51	Dual chromatin recognition by the histone deacetylase complex HCHC is required for proper DNA methylation in <i>Neurospora crassa</i>. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E6135-E6144.	7.1	28
52	Control of Development, Secondary Metabolism and Light-Dependent Carotenoid Biosynthesis by the Velvet Complex of <i>Neurospora crassa</i>. Genetics, 2019, 212, 691-710.	2.9	28
53	Induction of H3K9me3 and DNA methylation by tethered heterochromatin factors in <i>Neurospora crassa</i>. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E9598-E9607.	7.1	26
54	Gene silencing in filamentous fungi: RIP, MIP and quelling. Journal of Genetics, 1996, 75, 313-324.	0.7	25

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55	Neurospora Importin Î± Is Required for Normal Heterochromatic Formation and DNA Methylation. PLoS Genetics, 2015, 11, e1005083.	3.5	25
56	Substitutions in the Amino-Terminal Tail of Neurospora Histone H3 Have Varied Effects on DNA Methylation. PLoS Genetics, 2011, 7, e1002423.	3.5	22
57	Neurospora. Current Biology, 2011, 21, R139-R140.	3.9	15
58	Nucleosome Positioning by an Evolutionarily Conserved Chromatin Remodeler Prevents Aberrant DNA Methylation in <i>Neurospora</i>. Genetics, 2019, 211, 563-578.	2.9	13
59	Extensive and Varied Modifications in Histone H2B of Wild-Type and Histone Deacetylase 1 Mutant Neurospora crassa. Biochemistry, 2010, 49, 5244-5257.	2.5	12
60	Identification of a PRC2 Accessory Subunit Required for Subtelomeric H3K27 Methylation in <i>Neurospora crassa</i>. Molecular and Cellular Biology, 2020, 40, .	2.3	12
61	The Cullin-4 Complex DCDC Does Not Require E3 Ubiquitin Ligase Elements To Control Heterochromatin in Neurospora crassa. Eukaryotic Cell, 2015, 14, 25-28.	3.4	11
62	Marked <i>Neurospora crassa</i> Strains for Competition Experiments and Bayesian Methods for Fitness Estimates. G3: Genes, Genomes, Genetics, 2020, 10, 1261-1270.	1.8	11
63	The ACF chromatin-remodeling complex is essential for Polycomb repression. ELife, 2022, 11, .	6.0	10
64	Selection and Characterization of Mutants Defective in DNA Methylation in <i>Neurospora crassa</i>. Genetics, 2020, 216, 671-688.	2.9	7
65	Rapid and inexpensive preparation of genome-wide nucleosome footprints from model and non-model organisms. STAR Protocols, 2021, 2, 100486.	1.2	7
66	A Light-Inducible Strain for Genome-Wide Histone Turnover Profiling in <i>Neurospora crassa</i>. Genetics, 2020, 215, 569-578.	2.9	6
67	LSD1 prevents aberrant heterochromatin formation in Neurospora crassa. Nucleic Acids Research, 2020, 48, 10199-10210.	14.5	4
68	Robert L. Metzenberg, June 11, 1930â€"July 15, 2007: Geneticist Extraordinaire and â€œModel Humanâ€. Genetics, 2008, 178, 611-619.	2.9	3
69	The 2005 Thomas Hunt Morgan Medal. Genetics, 2005, 169, 503-505.	2.9	2
70	Chromatin Structure and Modification. , 2014, , 113-123.		0
71	Transposable Elements and Repeat-Induced Point Mutation. , 0, , 124-131.		0
72	Reply to Hogan: Direct evidence of RNAâ€"protein interactions and rewiring. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E10854-E10855.	7.1	0