David Shechter

List of Publications by Year
in descending order

39 papers	3,933 citations	257450 24 h-index	330143 37 g-index
46 all docs	46 docs citations	46 times ranked	5672 citing authors

#	Article	IF	Citations
1	Extraction, purification and analysis of histones. Nature Protocols, 2007, 2, 1445-1457.	12.0	879
2	The PRMT5 arginine methyltransferase: many roles in development, cancer and beyond. Cellular and Molecular Life Sciences, 2015, 72, 2041-2059.	5.4	364
3	WSTF regulates the H2A.X DNA damage response via a novel tyrosine kinase activity. Nature, 2009, 457, 57-62.	27.8	360
4	ATR and ATM regulate the timing of DNA replication origin firing. Nature Cell Biology, 2004, 6, 648-655.	10.3	333
5	An ATR- and Cdc7-Dependent DNA Damage Checkpoint that Inhibits Initiation of DNA Replication. Molecular Cell, 2003, 11, 203-213.	9.7	331
6	Clamp loading, unloading and intrinsic stability of the PCNA, Î² and gp45 sliding clamps of human, E. coli and T4 replicases. Genes To Cells, 1996, 1, 101-113.	1.2	207
7	Regulation of DNA replication by ATR: signaling in response to DNA intermediates. DNA Repair, 2004, 3, 901-908.	2.8	170
8	A TGFÎ²-PRMT5-MEP50 axis regulates cancer cell invasion through histone H3 and H4 arginine methylation coupled transcriptional activation and repression. Oncogene, 2017, 36, 373-386.	5.9	150
9	The Intrinsic DNA Helicase Activity of Methanobacterium thermoautotrophicum Î”H Minichromosome Maintenance Protein. Journal of Biological Chemistry, 2000, 275, 15049-15059.	3.4	133
10	Structure of the Arginine Methyltransferase PRMT5-MEP50 Reveals a Mechanism for Substrate Specificity. PLoS ONE, 2013, 8, e57008.	2.5	109
11	Cellular consequences of arginine methylation. Cellular and Molecular Life Sciences, 2019, 76, 2933-2956.	5.4	99
12	Histone H2A and H4 N-terminal Tails Are Positioned by the MEP50 WD Repeat Protein for Efficient Methylation by the PRMT5 Arginine Methyltransferase. Journal of Biological Chemistry, 2015, 290, 9674-9689.	3.4	75
13	Analysis of Histones in Xenopus laevis. Journal of Biological Chemistry, 2009, 284, 1064-1074.	3.4	66
14	Fly Fishing for Histones: Catch and Release by Histone Chaperone Intrinsically Disordered Regions and Acidic Stretches. Journal of Molecular Biology, 2017, 429, 2401-2426.	4.2	62
15	A distinct H2A.X isoform is enriched in<i>Xenopus laevis</i>eggs and early embryos and is phosphorylated in the absence of a checkpoint. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 749-754.	7.1	56
16	Protein Arginine Methyltransferase Prmt5-Mep50 Methylates Histones H2A and H4 and the Histone Chaperone Nucleoplasmin in Xenopus laevis Eggs. Journal of Biological Chemistry, 2011, 286, 42221-42231.	3.4	49
17	DNA Unwinding Is an MCM Complex-dependent and ATP Hydrolysis-dependent Process. Journal of Biological Chemistry, 2004, 279, 45586-45593.	3.4	44
18	Analysis of Histones in Xenopus laevis. Journal of Biological Chemistry, 2009, 284, 1075-1085.	3.4	43

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19	Sarcosine Is Uniquely Modulated by Aging and Dietary Restriction in Rodents and Humans. Cell Reports, 2018, 25, 663-676.e6.	6.4	43
20	Developmentally Regulated Post-translational Modification of Nucleoplasmin Controls Histone Sequestration and Deposition. Cell Reports, 2015, 10, 1735-1748.	6.4	41
21	ATM and ATR Check in on Origins: A Dynamic Model for Origin Selection and Activation. Cell Cycle, 2005, 4, 238-240.	2.6	38
22	MCM proteins and checkpoint kinases get together at the fork. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 10845-10846.	7.1	33
23	Phosphorylation and arginine methylation mark histone H2A prior to deposition during Xenopus laevis development. Epigenetics and Chromatin, 2014, 7, 22.	3.9	26
24	Pax6 associates with H3K4-specific histone methyltransferases Mll1, Mll2, and Set1a and regulates H3K4 methylation at promoters and enhancers. Epigenetics and Chromatin, 2016, 9, 37.	3.9	25
25	ATM and ATR check in on origins: a dynamic model for origin selection and activation. Cell Cycle, 2005, 4, 235-8.	2.6	25
26	Dynamic intramolecular regulation of the histone chaperone nucleoplasmin controls histone binding and release. Nature Communications, 2017, 8, 2215.	12.8	23
27	A Binary Arginine Methylation Switch on Histone H3 Arginine 2 Regulates Its Interaction with WDR5. Biochemistry, 2020, 59, 3696-3708.	2.5	21
28	Independent transcriptomic and proteomic regulation by type I and II protein arginine methyltransferases. IScience, 2021, 24, 102971.	4.1	20
29	Type I and II PRMTs inversely regulate post-transcriptional intron detention through Sm and CHTOP methylation. ELife, 2022, 11, .	6.0	20
30	A simplified characterization of S-adenosyl-<scp>l</scp>-methionine-consuming enzymes with 1-Step EZ-MTase: a universal and straightforward coupled-assay for in vitro and in vivo setting. Chemical Science, 2017, 8, 6601-6612.	7.4	18
31	Rinf Regulates Pluripotency Network Genes and Tet Enzymes in Embryonic Stem Cells. Cell Reports, 2019, 28, 1993-2003.e5.	6.4	18
32	Analysis of histones and chromatin in Xenopus laevis egg and oocyte extracts. Methods, 2010, 51, 3-10.	3.8	16
33	Chromatin assembly and transcriptional cross-talk in Xenopus laevis oocyte and egg extracts. International Journal of Developmental Biology, 2016, 60, 315-320.	0.6	12
34	Introduction to the multi-author review on methylation in cellular physiology. Cellular and Molecular Life Sciences, 2019, 76, 2871-2872.	5.4	5
35	Chromatin Characterization inXenopus laevisCell-Free Egg Extracts and Embryos. Cold Spring Harbor Protocols, 2019, 2019, pdb.prot099879.	0.3	5
36	Chaperone-mediated chromatin assembly and transcriptional regulation in Xenopus laevis. International Journal of Developmental Biology, 2016, 60, 271-276.	0.6	3

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37	A lasting marriage: histones and DNA tie a knot that is here to stay. Nature Reviews Genetics, 2007, 8, S23-S23.	16.3	2
38	Seeing Beyond the Double Helix. Journal of Pediatric Ophthalmology and Strabismus, 2014, 51, 268-268.	0.7	1
39	Structure of a single-chain H2A/H2B dimer. Acta Crystallographica Section F, Structural Biology Communications, 2020, 76, 194-198.	0.8	1