Raphael F Margueron

List of Publications by Year
in descending order

62 papers	12,701 citations	61984 43 h-index	114465 63 g-index
65 all docs	65 docs citations	65 times ranked	16331 citing authors

#	Article	IF	Citations
1	The Polycomb complex PRC2 and its mark in life. Nature, 2011, 469, 343-349.	27.8	2,783
2	Role of the polycomb protein EED in the propagation of repressive histone marks. Nature, 2009, 461, 762-767.	27.8	1,018
3	Ezh1 and Ezh2 Maintain Repressive Chromatin through Different Mechanisms. Molecular Cell, 2008, 32, 503-518.	9.7	748
4	The key to development: interpreting the histone code?. Current Opinion in Genetics and Development, 2005, 15, 163-176.	3.3	666
5	Chromatin structure and the inheritance of epigenetic information. Nature Reviews Genetics, 2010, 11, 285-296.	16.3	642
6	Silencing of human polycomb target genes is associated with methylation of histone H3 Lys 27. Genes and Development, 2004, 18, 1592-1605.	5.9	447
7	Jarid2 and PRC2, partners in regulating gene expression. Genes and Development, 2010, 24, 368-380.	5.9	434
8	Composition and histone substrates of polycomb repressive group complexes change during cellular differentiation. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 1859-1864.	7.1	371
9	Polycomb Group Protein Ezh2 Controls Actin Polymerization and Cell Signaling. Cell, 2005, 121, 425-436.	28.9	345
10	Phosphorylation of the PRC2 component Ezh2 is cell cycle-regulated and up-regulates its binding to ncRNA. Genes and Development, 2010, 24, 2615-2620.	5.9	336
11	Suz12 binds to silenced regions of the genomein a cell-type-specific manner. Genome Research, 2006, 16, 890-900.	5.5	276
12	Prdm3 and Prdm16 are H3K9me1 Methyltransferases Required for Mammalian Heterochromatin Integrity. Cell, 2012, 150, 948-960.	28.9	271
13	Ezh2 Requires PHF1 To Efficiently Catalyze H3 Lysine 27 Trimethylation In Vivo. Molecular and Cellular Biology, 2008, 28, 2718-2731.	2.3	257
14	Jarid2 Methylation via the PRC2 Complex Regulates H3K27me3 Deposition during Cell Differentiation. Molecular Cell, 2015, 57, 769-783.	9.7	229
15	Jarid2 Is Implicated in the Initial Xist-Induced Targeting of PRC2 to the Inactive X Chromosome. Molecular Cell, 2014, 53, 301-316.	9.7	221
16	The Histone H3 Lysine 9 Methyltransferases G9a and GLP Regulate Polycomb Repressive Complex 2-Mediated Gene Silencing. Molecular Cell, 2014, 53, 277-289.	9.7	214
17	Legionella pneumophila Effector RomA Uniquely Modifies Host Chromatin to Repress Gene Expression and Promote Intracellular Bacterial Replication. Cell Host and Microbe, 2013, 13, 395-405.	11.0	211
18	Regulation of Transcription through Acetylation of H3K122 on the Lateral Surface of the Histone Octamer. Cell, 2013, 152, 859-872.	28.9	209

#	Article	IF	Citations
19	Mechanisms Regulating PRC2 Recruitment and Enzymatic Activity. Trends in Biochemical Sciences, 2017, 42, 531-542.	7.5	166
20	Nucleosome-binding activities within JARID2 and EZH1 regulate the function of PRC2 on chromatin. Genes and Development, 2013, 27, 2663-2677.	5.9	149
21	Histone propionylation is a mark of active chromatin. Nature Structural and Molecular Biology, 2017, 24, 1048-1056.	8.2	148
22	<scp>PRC</scp>2 is dispensable for <scp>HOTAIR</scp>â€mediated transcriptional repression. EMBO Journal, 2017, 36, 981-994.	7.8	146
23	EZH2 and Histone 3 Trimethyl Lysine 27 Associated with Il4 and Il13 Gene Silencing in TH1 Cells. Journal of Biological Chemistry, 2005, 280, 31470-31477.	3.4	132
24	A Family of Vertebrate-Specific Polycombs Encoded by the LCOR/LCORL Genes Balance PRC2 Subtype Activities. Molecular Cell, 2018, 70, 408-421.e8.	9.7	121
25	H2A.Z facilitates licensing and activation of early replication origins. Nature, 2020, 577, 576-581.	27.8	119
26	Retinoblastoma tumor suppressor proteinâ€“dependent methylation of histone H3 lysine 27 is associated with irreversible cell cycle exit. Journal of Cell Biology, 2007, 179, 1399-1412.	5.2	116
27	Chromatin regulated interchange between polycomb repressive complex 2 (PRC2)-Ezh2 and PRC2-Ezh1 complexes controls myogenin activation in skeletal muscle cells. Epigenetics and Chromatin, 2011, 4, 16.	3.9	113
28	BAP1 complex promotes transcription by opposing PRC1-mediated H2A ubiquitylation. Nature Communications, 2019, 10, 348.	12.8	105
29	EZH2 couples pancreatic regeneration to neoplastic progression. Genes and Development, 2012, 26, 439-444.	5.9	103
30	A meiotic XPFâ€“ERCC1-like complex recognizes joint molecule recombination intermediates to promote crossover formation. Genes and Development, 2018, 32, 283-296.	5.9	98
31	Transcriptional Regulation by the Repressor of Estrogen Receptor Activity via Recruitment of Histone Deacetylases. Journal of Biological Chemistry, 2004, 279, 24834-24843.	3.4	92
32	Highly Compacted Chromatin Formed In Vitro Reflects the Dynamics of Transcription Activation In Vivo. Molecular Cell, 2010, 38, 41-53.	9.7	85
33	Ligands Differentially Modulate the Protein Interactions of the Human Estrogen Receptors Î± and Î². Journal of Molecular Biology, 2003, 326, 77-92.	4.2	83
34	Cdyl, a New Partner of the Inactive X Chromosome and Potential Reader of H3K27me3 and H3K9me2. Molecular and Cellular Biology, 2013, 33, 5005-5020.	2.3	80
35	Impaired PRC2 activity promotes transcriptional instability and favors breast tumorigenesis. Genes and Development, 2015, 29, 2547-2562.	5.9	77
36	EZHIP constrains Polycomb Repressive Complex 2 activity in germ cells. Nature Communications, 2019, 10, 3858.	12.8	76

#	Article	IF	Citations
37	Sequential histone-modifying activities determine the robustness of transdifferentiation. Science, 2014, 345, 826-829.	12.6	69
38	The Polycomb protein Ezl1 mediates H3K9 and H3K27 methylation to repress transposable elements in Paramecium. Nature Communications, 2019, 10, 2710.	12.8	69
39	ERÎ± and ERÎ² expression and transcriptional activity are differentially regulated by HDAC inhibitors. Oncogene, 2006, 25, 1799-1806.	5.9	66
40	Oestrogen receptor alpha increases p21(WAF1/CIP1) gene expression and the antiproliferative activity of histone deacetylase inhibitors in human breast cancer cells. Journal of Endocrinology, 2003, 179, 41-53.	2.6	60
41	Uveal melanoma cells are resistant to EZH2 inhibition regardless of BAP1 status. Nature Medicine, 2016, 22, 577-578.	30.7	57
42	Histone deacetylase inhibition and estrogen signalling in human breast cancer cells. Biochemical Pharmacology, 2004, 68, 1239-1246.	4.4	56
43	Transcriptional and Posttranscriptional Regulation of Fibulin-1 by Estrogens Leads to Differential Induction of Messenger Ribonucleic Acid Variants in Ovarian and Breast Cancer Cells. Endocrinology, 2005, 146, 760-768.	2.8	56
44	Histone variants H2A.Z and H3.3 coordinately regulate PRC2-dependent H3K27me3 deposition and gene expression regulation in mES cells. BMC Biology, 2018, 16, 107.	3.8	54
45	A cis-acting mechanism mediates transcriptional memory at Polycomb target genes in mammals. Nature Genetics, 2021, 53, 1686-1697.	21.4	53
46	The Multiple Facets of PRC2 Alterations in Cancers. Journal of Molecular Biology, 2017, 429, 1978-1993.	4.2	44
47	The Nuclear Receptor Coactivator PGC-1Î± Exhibits Modes of Interaction with the Estrogen Receptor Distinct From those of SRC-1. Journal of Molecular Biology, 2005, 347, 921-934.	4.2	43
48	EZH1/2 function mostly within canonical PRC2 and exhibit proliferation-dependent redundancy that shapes mutational signatures in cancer. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6075-6080.	7.1	42
49	Imprinting control regions (ICRs) are marked by mono-allelic bivalent chromatin when transcriptionally inactive. Nucleic Acids Research, 2016, 44, 621-635.	14.5	41
50	Histone deacetylase inhibition and estrogen receptor alpha levels modulate the transcriptional activity of partial antiestrogens. Journal of Molecular Endocrinology, 2004, 32, 583-594.	2.5	40
51	Drugging histone methyltransferases in cancer. Current Opinion in Chemical Biology, 2020, 56, 51-62.	6.1	40
52	Succinylation of H3K122 destabilizes nucleosomes and enhances transcription. EMBO Reports, 2021, 22, e51009.	4.5	36
53	Versatile and precise gene-targeting strategies for functional studies in mammalian cell lines. Methods, 2017, 121-122, 45-54.	3.8	32
54	Paramecium Polycomb repressive complex 2 physically interacts with the small RNA-binding PIWI protein to repress transposable elements. Developmental Cell, 2022, 57, 1037-1052.e8.	7.0	27

#	Article	IF	Citations
55	Chromatin in the Nuclear Landscape. Cold Spring Harbor Symposia on Quantitative Biology, 2010, 75, 11-22.	1.1	24
56	Modulating BAP1 expression affects ROS homeostasis, cell motility and mitochondrial function. Oncotarget, 2017, 8, 72513-72527.	1.8	24
57	XIST loss impairs mammary stem cell differentiation and increases tumorigenicity through Mediator hyperactivation. Cell, 2022, 185, 2164-2183.e25.	28.9	22
58	Association between EZH2 expression, silencing of tumor suppressors and disease outcome in solid tumors. Cell Cycle, 2016, 15, 2256-2262.	2.6	19
59	Steps Toward Understanding the Inheritance of Repressive Methyl-Lysine Marks in Histones. Cold Spring Harbor Symposia on Quantitative Biology, 2004, 69, 171-182.	1.1	14
60	Enhancer rewiring in tumors: an opportunity for therapeutic intervention. Oncogene, 2021, 40, 3475-3491.	5.9	10
61	Rare germline heterozygous missense variants in BRCA1-associated protein 1, BAP1, cause a syndromic neurodevelopmental disorder. American Journal of Human Genetics, 2022, 109, 361-372.	6.2	6
62	Breaking into the PRC2 cage. Nature Chemical Biology, 2017, 13, 345-346.	8.0	2