Bradley Cairns

List of Publications by Year
in descending order

68 papers	10,021 citations	87723 38 h-index	128067 60 g-index
81 all docs	81 docs citations	81 times ranked	10730 citing authors

#	Article	IF	Citations
1	The Biology of Chromatin Remodeling Complexes. Annual Review of Biochemistry, 2009, 78, 273-304.	5.0	1,891
2	Mechanisms of action and regulation of ATP-dependent chromatin-remodelling complexes. Nature Reviews Molecular Cell Biology, 2017, 18, 407-422.	16.1	828
3	RSC, an Essential, Abundant Chromatin-Remodeling Complex. Cell, 1996, 87, 1249-1260.	13.5	654
4	Conserved roles of mouse DUX and human DUX4 in activating cleavage-stage genes and MERVL/HERVL retrotransposons. Nature Genetics, 2017, 49, 925-934.	9.4	545
5	The adult human testis transcriptional cell atlas. Cell Research, 2018, 28, 1141-1157.	5.7	426
6	The logic of chromatin architecture and remodelling at promoters. Nature, 2009, 461, 193-198.	13.7	399
7	Reprogramming the Maternal Zebrafish Genome after Fertilization to Match the Paternal Methylation Pattern. Cell, 2013, 153, 759-772.	13.5	354
8	Chromatin and Transcription Transitions of Mammalian Adult Germline Stem Cells and Spermatogenesis. Cell Stem Cell, 2014, 15, 239-253.	5.2	280
9	Age-Associated Sperm DNA Methylation Alterations: Possible Implications in Offspring Disease Susceptibility. PLoS Genetics, 2014, 10, e1004458.	1.5	238
10	Chromatin remodeling: insights and intrigue from single-molecule studies. Nature Structural and Molecular Biology, 2007, 14, 989-996.	3.6	223
11	Chromatin remodeling by RSC involves ATP-dependent DNA translocation. Genes and Development, 2002, 16, 2120-2134.	2.7	222
12	Tandem bromodomains in the chromatin remodeler RSC recognize acetylated histone H3 Lys14. EMBO Journal, 2004, 23, 1348-1359.	3.5	213
13	Two Functionally Distinct Forms of the RSC Nucleosome-Remodeling Complex, Containing Essential AT Hook, BAH, and Bromodomains. Molecular Cell, 1999, 4, 715-723.	4.5	205
14	Two Actin-Related Proteins Are Shared Functional Components of the Chromatin-Remodeling Complexes RSC and SWI/SNF. Molecular Cell, 1998, 2, 639-651.	4.5	200
15	Chromatin and Single-Cell RNA-Seq Profiling Reveal Dynamic Signaling and Metabolic Transitions during Human Spermatogonial Stem Cell Development. Cell Stem Cell, 2017, 21, 533-546.e6.	5.2	200
16	Chromatin remodeling through directional DNA translocation from an internal nucleosomal site. Nature Structural and Molecular Biology, 2005, 12, 747-755.	3.6	195
17	The HSA domain binds nuclear actin-related proteins to regulate chromatin-remodeling ATPases. Nature Structural and Molecular Biology, 2008, 15, 469-476.	3.6	177
18	RSC regulates nucleosome positioning at Pol II genes and density at Pol III genes. EMBO Journal, 2008, 27, 100-110.	3.5	175

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19	A Rsc3/Rsc30 Zinc Cluster Dimer Reveals Novel Roles for the Chromatin Remodeler RSC in Gene Expression and Cell Cycle Control. Molecular Cell, 2001, 7, 741-751.	4.5	174
20	Transcriptome-wide profiling of multiple RNA modifications simultaneously at single-base resolution. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6784-6789.	3.3	162
21	The Dynamic Transcriptional Cell Atlas of Testis Development during Human Puberty. Cell Stem Cell, 2020, 26, 262-276.e4.	5.2	155
22	Chromatin remodeling complexes: strength in diversity, precision through specialization. Current Opinion in Genetics and Development, 2005, 15, 185-190.	1.5	153
23	Aberrant sperm DNA methylation predicts male fertility status and embryo quality. Fertility and Sterility, 2015, 104, 1388-1397.e5.	0.5	153
24	Placeholder Nucleosomes Underlie Germline-to-Embryo DNA Methylation Reprogramming. Cell, 2018, 172, 993-1006.e13.	13.5	137
25	The Genome-Wide Localization of Rsc9, a Component of the RSC Chromatin-Remodeling Complex, Changes in Response to Stress. Molecular Cell, 2002, 9, 563-573.	4.5	135
26	PANDORA-seq expands the repertoire of regulatory small RNAs by overcoming RNA modifications. Nature Cell Biology, 2021, 23, 424-436.	4.6	115
27	Dnmt3 and G9a Cooperate for Tissue-specific Development in Zebrafish. Journal of Biological Chemistry, 2010, 285, 4110-4121.	1.6	114
28	The nuclear actin-related proteins Arp7 and Arp9: a dimeric module that cooperates with architectural proteins for chromatin remodeling. EMBO Journal, 2003, 22, 3175-3187.	3.5	104
29	Single-cell analysis of the developing human testis reveals somatic niche cell specification and fetal germline stem cell establishment. Cell Stem Cell, 2021, 28, 764-778.e4.	5.2	104
30	Structure of the RSC complex bound to the nucleosome. Science, 2019, 366, 838-843.	6.0	92
31	Regulation of DNA Translocation Efficiency within the Chromatin Remodeler RSC/Sth1 Potentiates Nucleosome Sliding and Ejection. Molecular Cell, 2016, 62, 453-461.	4.5	81
32	SINE transcription by RNA polymerase III is suppressed by histone methylation but not by DNA methylation. Nature Communications, 2015, 6, 6569.	5.8	80
33	The chromatin remodelers RSC and ISW1 display functional and chromatin-based promoter antagonism. ELife, 2015, 4, e06073.	2.8	68
34	Transcription and imprinting dynamics in developing postnatal male germline stem cells. Genes and Development, 2015, 29, 2312-2324.	2.7	61
35	p53 convergently activates Dux/DUX4 in embryonic stem cells and in facioscapulohumeral muscular dystrophy cell models. Nature Genetics, 2021, 53, 1207-1220.	9.4	59
36	Dissecting mammalian spermatogenesis using spatial transcriptomics. Cell Reports, 2021, 37, 109915.	2.9	54

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37	Counteracting H3K4 methylation modulators Set1 and Jhd2 co-regulate chromatin dynamics and gene transcription. Nature Communications, 2016, 7, 11949.	5.8	50
38	Transcriptome-wide target profiling of RNA cytosine methyltransferases using the mechanism-based enrichment procedure Aza-IP. Nature Protocols, 2014, 9, 337-361.	5.5	49
39	Chromatin architecture transitions from zebrafish sperm through early embryogenesis. Genome Research, 2021, 31, 981-994.	2.4	48
40	Single-cell analysis of human testis aging and correlation with elevated body mass index. Developmental Cell, 2022, 57, 1160-1176.e5.	3.1	47
41	DNA Translocation and Nucleosome Remodeling Assays by the RSC Chromatin Remodeling Complex. Methods in Enzymology, 2003, 377, 322-343.	0.4	46
42	CTCF looping is established during gastrulation in medaka embryos. Genome Research, 2021, 31, 968-980.	2.4	37
43	HDAC1,2 inhibition impairs EZH2- and BBAP- mediated DNA repair to overcome chemoresistance in EZH2 gain-of-function mutant diffuse large B-cell lymphoma. Oncotarget, 2015, 6, 4863-4887.	0.8	35
44	Cisplatin and carboplatin result in similar gonadotoxicity in immature human testis with implications for fertility preservation in childhood cancer. BMC Medicine, 2020, 18, 374.	2.3	34
45	RNA Polymerase III Transcriptomes in Human Embryonic Stem Cells and Induced Pluripotent Stem Cells, and Relationships with Pluripotency Transcription Factors. PLoS ONE, 2014, 9, e85648.	1.1	31
46	A Role for SMARCB1 in Synovial Sarcomagenesis Reveals That SS18â€“SSX Induces Canonical BAF Destruction. Cancer Discovery, 2021, 11, 2620-2637.	7.7	26
47	Genome-wide reconstitution of chromatin transactions reveals that RSC preferentially disrupts H2AZ-containing nucleosomes. Genome Research, 2019, 29, 988-998.	2.4	21
48	Cancer-Associated Gain-of-Function Mutations Activate a SWI/SNF-Family Regulatory Hub. Molecular Cell, 2020, 80, 712-725.e5.	4.5	20
49	Germ cell differentiation requires Tdrd7-dependent chromatin and transcriptome reprogramming marked by germ plasm relocalization. Developmental Cell, 2021, 56, 641-656.e5.	3.1	18
50	Specialization of the chromatin remodeler RSC to mobilize partially-unwrapped nucleosomes. ELife, 2020, 9, .	2.8	18
51	Around the World of DNA Damage INO80 Days. Cell, 2004, 119, 733-735.	13.5	16
52	Maintenance of spatial gene expression by Polycomb-mediated repression after formation of a vertebrate body plan. Development (Cambridge), 2019, 146, .	1.2	13
53	Establishment of developmental gene silencing by ordered polycomb complex recruitment in early zebrafish embryos. ELife, 2022, 11, .	2.8	13
54	Developmentally Programmed Tankyrase Activity Upregulates Î²-Catenin and Licenses Progression of Embryonic Genome Activation. Developmental Cell, 2020, 53, 545-560.e7.	3.1	12

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55	Experimental Approaches for Target Profiling of RNA Cytosine Methyltransferases. Methods in Enzymology, 2015, 560, 273-296.	0.4	11
56	NRF2 loss recapitulates heritable impacts of paternal cigarette smoke exposure. PLoS Genetics, 2020, 16, e1008756.	1.5	11
57	Selective repression of SINE transcription by RNA polymerase III. Mobile Genetic Elements, 2015, 5, 86-91.	1.8	7
58	GFI1 Cooperates with IKZF1/IKAROS to Activate Gene Expression in T-cell Acute Lymphoblastic Leukemia. Molecular Cancer Research, 2022, 20, 501-514.	1.5	4
59	Tet proteins enhance the developmental hourglass. Nature Genetics, 2016, 48, 345-347.	9.4	3
60	When spermatogenesis meets human aging and elevated body mass. , 0, , .		2
61	Structure and function of the SWIRM domain, a conserved protein module found in chromatin regulatory complexes. FASEB Journal, 2006, 20, A34.	0.2	0
62	Structural Studies of ATPâ€dependent chromatin remodeling. FASEB Journal, 2010, 24, 832.1.	0.2	0
63	NRF2 loss recapitulates heritable impacts of paternal cigarette smoke exposure. , 2020, 16, e1008756.		0
64	NRF2 loss recapitulates heritable impacts of paternal cigarette smoke exposure. , 2020, 16, e1008756.		0
65	NRF2 loss recapitulates heritable impacts of paternal cigarette smoke exposure. , 2020, 16, e1008756.		0
66	NRF2 loss recapitulates heritable impacts of paternal cigarette smoke exposure. , 2020, 16, e1008756.		0
67	NRF2 loss recapitulates heritable impacts of paternal cigarette smoke exposure. , 2020, 16, e1008756.		0
68	NRF2 loss recapitulates heritable impacts of paternal cigarette smoke exposure. , 2020, 16, e1008756.		0