

Gerald R Crabtree

List of Publications by Year in descending order

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95
papers

25,211
citations

22099

59
h-index

45213

90
g-index

103
all docs

103
docs citations

103
times ranked

24245
citing authors

#	ARTICLE	IF	CITATIONS
1	The mechanism of action of cyclosporin A and FK506. Trends in Immunology, 1992, 13, 136-142.	7.5	2,114
2	Identification of calcineurin as a key signalling enzyme in T-lymphocyte activation. Nature, 1992, 357, 695-697.	13.7	1,585
3	NFAT Signaling. Cell, 2002, 109, S67-S79.	13.5	1,224
4	Proteomic and bioinformatic analysis of mammalian SWI/SNF complexes identifies extensive roles in human malignancy. Nature Genetics, 2013, 45, 592-601.	9.4	1,082
5	Nuclear association of a T-cell transcription factor blocked by FK-506 and cyclosporin A. Nature, 1991, 352, 803-807.	13.7	1,055
6	Chromatin remodelling during development. Nature, 2010, 463, 474-484.	13.7	936
7	Interleukin-2-mediated elimination of the p27Kip1 cyclin-dependent kinase inhibitor prevented by rapamycin. Nature, 1994, 372, 570-573.	13.7	911
8	ATP-dependent chromatin remodeling: genetics, genomics and mechanisms. Cell Research, 2011, 21, 396-420.	5.7	765
9	A Brg1 Null Mutation in the Mouse Reveals Functional Differences among Mammalian SWI/SNF Complexes. Molecular Cell, 2000, 6, 1287-1295.	4.5	743
10	Rapid and Phosphoinositol-Dependent Binding of the SWI/SNF-like BAF Complex to Chromatin after T Lymphocyte Receptor Signaling. Cell, 1998, 95, 625-636.	13.5	683
11	An Essential Switch in Subunit Composition of a Chromatin Remodeling Complex during Neural Development. Neuron, 2007, 55, 201-215.	3.8	647
12	Mammalian SWI/SNF chromatin remodeling complexes and cancer: Mechanistic insights gained from human genomics. Science Advances, 2015, 1, e1500447.	4.7	627
13	BRG1 contains a conserved domain of the SWI2/SNF2 family necessary for normal mitotic growth and transcription. Nature, 1993, 366, 170-174.	13.7	625
14	Rapamycin selectively inhibits interleukin-2 activation of p70 S6 kinase. Nature, 1992, 358, 70-73.	13.7	612
15	NF-AT components define a family of transcription factors targeted in T-cell activation. Nature, 1994, 369, 497-502.	13.7	572
16	MicroRNA-mediated switching of chromatin-remodelling complexes in neural development. Nature, 2009, 460, 642-646.	13.7	557
17	An embryonic stem cell chromatin remodeling complex, esBAF, is essential for embryonic stem cell self-renewal and pluripotency. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 5181-5186.	3.3	515
18	Rapid shuttling of NF-AT in discrimination of Ca ²⁺ signals and immunosuppression. Nature, 1996, 383, 837-840.	13.7	497

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19	L-type calcium channels and GSK-3 regulate the activity of NF-ATc4 in hippocampal neurons. <i>Nature</i> , 1999, 401, 703-708.	13.7	486
20	From neural development to cognition: unexpected roles for chromatin. <i>Nature Reviews Genetics</i> , 2013, 14, 347-359.	7.7	420
21	A transcriptional hierarchy involved in mammalian cell-type specification. <i>Nature</i> , 1992, 355, 457-461.	13.7	419
22	Reversible Disruption of mSWI/SNF (BAF) Complexes by the SS18-SSX Oncogenic Fusion in Synovial Sarcoma. <i>Cell</i> , 2013, 153, 71-85.	13.5	383
23	Dynamics and Memory of Heterochromatin in Living Cells. <i>Cell</i> , 2012, 149, 1447-1460.	13.5	381
24	Nuclear Actin and Actin-Related Proteins in Chromatin Remodeling. <i>Annual Review of Biochemistry</i> , 2002, 71, 755-781.	5.0	379
25	An embryonic stem cell chromatin remodeling complex, esBAF, is an essential component of the core pluripotency transcriptional network. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 5187-5191.	3.3	374
26	Regulation of Dendritic Development by Neuron-Specific Chromatin Remodeling Complexes. <i>Neuron</i> , 2007, 56, 94-108.	3.8	346
27	Understanding the Words of Chromatin Regulation. <i>Cell</i> , 2009, 136, 200-206.	13.5	320
28	The Many Roles of BAF (mSWI/SNF) and PBAF Complexes in Cancer. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2016, 6, a026930.	2.9	309
29	DIMERIZATION AS A REGULATORY MECHANISM IN SIGNAL TRANSDUCTION. <i>Annual Review of Immunology</i> , 1998, 16, 569-592.	9.5	308
30	TOR kinase domains are required for two distinct functions, only one of which is inhibited by rapamycin. <i>Cell</i> , 1995, 82, 121-130.	13.5	283
31	Chemically induced proximity in biology and medicine. <i>Science</i> , 2018, 359, .	6.0	270
32	Dimeric ligands define a role for transcriptional activation domains in reinitiation. <i>Nature</i> , 1996, 382, 822-826.	13.7	264
33	esBAF facilitates pluripotency by conditioning the genome for LIF/STAT3 signalling and by regulating polycomb function. <i>Nature Cell Biology</i> , 2011, 13, 903-913.	4.6	238
34	BAF complexes facilitate decatenation of DNA by topoisomerase II \pm . <i>Nature</i> , 2013, 497, 624-627.	13.7	230
35	Dynamics of BAF \hat{a} €“Polycomb complex opposition on heterochromatin in normal and oncogenic states. <i>Nature Genetics</i> , 2017, 49, 213-222.	9.4	220
36	Engineering the ABA Plant Stress Pathway for Regulation of Induced Proximity. <i>Science Signaling</i> , 2011, 4, rs2.	1.6	210

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37	Harnessing Chaperones to Generate Small-Molecule Inhibitors of Amyloid $\text{A}\hat{\text{A}}$ Aggregation. <i>Science</i> , 2004, 306, 865-869.	6.0	198
38	Chd8 Mutation Leads to Autistic-like Behaviors and Impaired Striatal Circuits. <i>Cell Reports</i> , 2017, 19, 335-350.	2.9	177
39	Rapamycin Analogs with Differential Binding Specificity Permit Orthogonal Control of Protein Activity. <i>Chemistry and Biology</i> , 2006, 13, 99-107.	6.2	171
40	Smarca4 ATPase mutations disrupt direct eviction of PRC1 from chromatin. <i>Nature Genetics</i> , 2017, 49, 282-288.	9.4	165
41	Sequential Roles of Brg, the ATPase Subunit of BAF Chromatin Remodeling Complexes, in Thymocyte Development. <i>Immunity</i> , 2003, 19, 169-182.	6.6	153
42	Functional analysis of Fas signaling in vivo using synthetic inducers of dimerization. <i>Current Biology</i> , 1996, 6, 839-847.	1.8	143
43	Dominant-negative SMARCA4 mutants alter the accessibility landscape of tissue-unrestricted enhancers. <i>Nature Structural and Molecular Biology</i> , 2018, 25, 61-72.	3.6	140
44	The role of BAF (mSWI/SNF) complexes in mammalian neural development. <i>American Journal of Medical Genetics, Part C: Seminars in Medical Genetics</i> , 2014, 166, 333-349.	0.7	135
45	ATP-dependent chromatin remodeling in neural development. <i>Current Opinion in Neurobiology</i> , 2009, 19, 120-126.	2.0	128
46	Conditional Protein Alleles Using Knockin Mice and a Chemical Inducer of Dimerization. <i>Molecular Cell</i> , 2003, 12, 1615-1624.	4.5	127
47	Chemical rescue of cleft palate and midline defects in conditional GSK-3 $\hat{\text{I}}^2$ mice. <i>Nature</i> , 2007, 446, 79-82.	13.7	126
48	Rapid and reversible epigenome editing by endogenous chromatin regulators. <i>Nature Communications</i> , 2017, 8, 560.	5.8	118
49	Rapid targeting of nuclear proteins to the cytoplasm. <i>Current Biology</i> , 1997, 7, 638-644.	1.8	108
50	Unusual Rel-like architecture in the DNA-binding domain of the transcription factor NFATc. <i>Nature</i> , 1997, 385, 172-176.	13.7	103
51	The BAF53a subunit of SWI/SNF-like BAF complexes is essential for hemopoietic stem cell function. <i>Blood</i> , 2012, 120, 4720-4732.	0.6	97
52	ACTL6a Enforces the Epidermal Progenitor State by Suppressing SWI/SNF-Dependent Induction of KLF4. <i>Cell Stem Cell</i> , 2013, 12, 193-203.	5.2	97
53	SnapShot: Ca $^{2+}$ -Calcineurin-NFAT Signaling. <i>Cell</i> , 2009, 138, 210-210.e1.	13.5	90
54	Controlling programmed cell death with a cyclophilin-cyclosporin-based chemical inducer of dimerization. <i>Chemistry and Biology</i> , 1996, 3, 731-738.	6.2	85

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55	Proximity versus allostery: the role of regulated protein dimerization in biology. <i>Chemistry and Biology</i> , 1994, 1, 131-136.	6.2	80
56	A CRISPR/Cas9-Engineered <i>ARID1A</i> -Deficient Human Gastric Cancer Organoid Model Reveals Essential and Nonessential Modes of Oncogenic Transformation. <i>Cancer Discovery</i> , 2021, 11, 1562-1581.	7.7	75
57	Rapid chromatin repression by Aire provides precise control of immune tolerance. <i>Nature Immunology</i> , 2018, 19, 162-172.	7.0	69
58	Nucleosome Turnover Regulates Histone Methylation Patterns over the Genome. <i>Molecular Cell</i> , 2019, 73, 61-72.e3.	4.5	69
59	TOP2 synergizes with BAF chromatin remodeling for both resolution and formation of facultative heterochromatin. <i>Nature Structural and Molecular Biology</i> , 2017, 24, 344-352.	3.6	66
60	Our fragile intellect. Part I. <i>Trends in Genetics</i> , 2013, 29, 1-3.	2.9	63
61	Mechanistic studies of a signaling pathway activated by the organic dimerizer FK1012. <i>Chemistry and Biology</i> , 1994, 1, 163-172.	6.2	61
62	DNA binding drives the association of BRC1/hBRM bromodomains with nucleosomes. <i>Nature Communications</i> , 2017, 8, 16080.	5.8	61
63	Dynamics of inherently bounded histone modification domains. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 13296-13301.	3.3	60
64	Characterization of <i>Saccharomyces cerevisiae dna2</i> Mutants Suggests a Role for the Helicase Late in S Phase. <i>Molecular Biology of the Cell</i> , 1997, 8, 2519-2537.	0.9	58
65	mSWI/SNF promotes Polycomb repression both directly and through genome-wide redistribution. <i>Nature Structural and Molecular Biology</i> , 2021, 28, 501-511.	3.6	50
66	Our fragile intellect. Part II. <i>Trends in Genetics</i> , 2013, 29, 3-5.	2.9	48
67	The BAF45a/PHF10 subunit of SWI/SNF-like chromatin remodeling complexes is essential for hematopoietic stem cell maintenance. <i>Experimental Hematology</i> , 2017, 48, 58-71.e15.	0.2	40
68	Small Molecule Targeting of Specific BAF (mSWI/SNF) Complexes for HIV Latency Reversal. <i>Cell Chemical Biology</i> , 2018, 25, 1443-1455.e14.	2.5	35
69	LSH mediates gene repression through macroH2A deposition. <i>Nature Communications</i> , 2020, 11, 5647.	5.8	35
70	Generation of <i>BAF53b</i> <i>C</i> transgenic mice with pan-neuronal <i>C</i> activities. <i>Genesis</i> , 2015, 53, 440-448.	0.8	34
71	Loss of the neural-specific BAF subunit ACTL6B relieves repression of early response genes and causes recessive autism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 10055-10066.	3.3	34
72	BAF chromatin remodelling complex is an epigenetic regulator of lineage specification in the early mouse embryo. <i>Development (Cambridge)</i> , 2016, 143, 1271-83.	1.2	32

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73	Screening for Inhibitors of an Essential Chromatin Remodeler in Mouse Embryonic Stem Cells by Monitoring Transcriptional Regulation. <i>Journal of Biomolecular Screening</i> , 2012, 17, 1221-1230.	2.6	28
74	BAF subunit switching regulates chromatin accessibility to control cell cycle exit in the developing mammalian cortex. <i>Genes and Development</i> , 2021, 35, 335-353.	2.7	28
75	Chromatin regulators mediate anthracycline sensitivity in breast cancer. <i>Nature Medicine</i> , 2019, 25, 1721-1727.	15.2	27
76	CHD8 dosage regulates transcription in pluripotency and early murine neural differentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 22331-22340.	3.3	27
77	FK506-binding protein (FKBP) partitions a modified HIV protease inhibitor into blood cells and prolongs its lifetime in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 1336-1341.	3.3	25
78	IMMUNOLOGY: Decoding Calcium Signaling. <i>Science</i> , 2005, 307, 56-57.	6.0	21
79	Systemic enhancement of serotonin signaling reverses social deficits in multiple mouse models for ASD. <i>Neuropsychopharmacology</i> , 2021, 46, 2000-2010.	2.8	21
80	Increased ACTL6A occupancy within mSWI/SNF chromatin remodelers drives human squamous cell carcinoma. <i>Molecular Cell</i> , 2021, 81, 4964-4978.e8.	4.5	19
81	Chemical Inhibitors of a Selective SWI/SNF Function Synergize with ATR Inhibition in Cancer Cell Killing. <i>ACS Chemical Biology</i> , 2020, 15, 1685-1696.	1.6	13
82	Regulation of the regulators. <i>Nature</i> , 2000, 408, 46-47.	13.7	12
83	Chemically Regulated Transcription Factors Reveal the Persistence of Repressor-resistant Transcription after Disrupting Activator Function. <i>Journal of Biological Chemistry</i> , 2000, 275, 25381-25390.	1.6	11
84	Tethering of Lsh at the Oct4 locus promotes gene repression associated with epigenetic changes. <i>Epigenetics</i> , 2018, 13, 173-181.	1.3	10
85	The early heart remodelled. <i>Nature</i> , 2009, 459, 654-655.	13.7	9
86	Bursting into the Nucleus. <i>Science Signaling</i> , 2008, 1, pe54.	1.6	8
87	A General Non- ³² P-ATPase Assay for Chromatin Remodeling Complexes. <i>Current Protocols in Chemical Biology</i> , 2017, 9, 1-10.	1.7	7
88	Calcineurin/NFAT Signaling in Development and Function of the Nervous System. , 2006, , 353-378.		3
89	ACTL6a coordinates axonal caliber recognition and myelination in the peripheral nerve. <i>iScience</i> , 2022, 25, 104132.	1.9	3
90	The Interaction of SWI/SNF with the Ribosome Regulates Translation and Confers Sensitivity to Translation Pathway Inhibitors in Cancers with Complex Perturbations. <i>Cancer Research</i> , 2022, 82, 2829-2837.	0.4	2

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91	Control of the early activation genes of T lymphocytes. BioEssays, 1986, 5, 220-222.	1.2	0
92	Rethinking our intellectual origins: response to Kalinka et al.. Trends in Genetics, 2013, 29, 127-129.	2.9	0
93	Small Molecule-Induced Proximity. , 2012, , 115-126.		0
94	Reversing the oncogenic roles of misdirected chromatin remodeling: Mechanistic insights into the SS18-SSX fusion protein in synovial sarcoma.. Journal of Clinical Oncology, 2013, 31, 10515-10515.	0.8	0
95	Defining CBX7-Dependent Chromatin Architecture with Rapid Small-Molecule Inhibition. SSRN Electronic Journal, 0, , .	0.4	0