

# Gerald R Crabtree

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

93 papers	21,164 citations	55 h-index	103 g-index
103 ext. papers	23,374 ext. citations	24.2 avg, IF	6.99 L-index

#	Paper	IF	Citations
93	The mechanism of action of cyclosporin A and FK506. <i>Trends in Immunology</i> , <b>1992</b> , 13, 136-42		1937
92	Identification of calcineurin as a key signalling enzyme in T-lymphocyte activation. <i>Nature</i> , <b>1992</b> , 357, 695-7	50.4	1462
91	NFAT signaling: choreographing the social lives of cells. <i>Cell</i> , <b>2002</b> , 109 Suppl, S67-79	56.2	1066
90	Nuclear association of a T-cell transcription factor blocked by FK-506 and cyclosporin A. <i>Nature</i> , <b>1991</b> , 352, 803-7	50.4	960
89	Interleukin-2-mediated elimination of the p27Kip1 cyclin-dependent kinase inhibitor prevented by rapamycin. <i>Nature</i> , <b>1994</b> , 372, 570-3	50.4	857
88	Chromatin remodelling during development. <i>Nature</i> , <b>2010</b> , 463, 474-84	50.4	799
87	Proteomic and bioinformatic analysis of mammalian SWI/SNF complexes identifies extensive roles in human malignancy. <i>Nature Genetics</i> , <b>2013</b> , 45, 592-601	36.3	765
86	A Brg1 null mutation in the mouse reveals functional differences among mammalian SWI/SNF complexes. <i>Molecular Cell</i> , <b>2000</b> , 6, 1287-95	17.6	657
85	Rapid and phosphoinositol-dependent binding of the SWI/SNF-like BAF complex to chromatin after T lymphocyte receptor signaling. <i>Cell</i> , <b>1998</b> , 95, 625-36	56.2	615
84	ATP-dependent chromatin remodeling: genetics, genomics and mechanisms. <i>Cell Research</i> , <b>2011</b> , 21, 396-420	24.7	607
83	Rapamycin selectively inhibits interleukin-2 activation of p70 S6 kinase. <i>Nature</i> , <b>1992</b> , 358, 70-3	50.4	568
82	BRG1 contains a conserved domain of the SWI2/SNF2 family necessary for normal mitotic growth and transcription. <i>Nature</i> , <b>1993</b> , 366, 170-4	50.4	562
81	An essential switch in subunit composition of a chromatin remodeling complex during neural development. <i>Neuron</i> , <b>2007</b> , 55, 201-15	13.9	541
80	NF-AT components define a family of transcription factors targeted in T-cell activation. <i>Nature</i> , <b>1994</b> , 369, 497-502	50.4	530
79	MicroRNA-mediated switching of chromatin-remodelling complexes in neural development. <i>Nature</i> , <b>2009</b> , 460, 642-6	50.4	477
78	Rapid shuttling of NF-AT in discrimination of Ca <sup>2+</sup> signals and immunosuppression. <i>Nature</i> , <b>1996</b> , 383, 837-40	50.4	465
77	L-type calcium channels and GSK-3 regulate the activity of NF-ATc4 in hippocampal neurons. <i>Nature</i> , <b>1999</b> , 401, 703-8	50.4	452

76	Mammalian SWI/SNF chromatin remodeling complexes and cancer: Mechanistic insights gained from human genomics. <i>Science Advances</i> , <b>2015</b> , 1, e1500447	14.3	428
75	An embryonic stem cell chromatin remodeling complex, esBAF, is essential for embryonic stem cell self-renewal and pluripotency. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 5181-6	11.5	404
74	A transcriptional hierarchy involved in mammalian cell-type specification. <i>Nature</i> , <b>1992</b> , 355, 457-61	50.4	392
73	From neural development to cognition: unexpected roles for chromatin. <i>Nature Reviews Genetics</i> , <b>2013</b> , 14, 347-59	30.1	347
72	Nuclear actin and actin-related proteins in chromatin remodeling. <i>Annual Review of Biochemistry</i> , <b>2002</b> , 71, 755-81	29.1	346
71	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> , <b>2009</b> , 106, 5187-91	11.5	327
70	Regulation of dendritic development by neuron-specific chromatin remodeling complexes. <i>Neuron</i> , <b>2007</b> , 56, 94-108	13.9	307
69	Reversible disruption of mSWI/SNF (BAF) complexes by the SS18-SSX oncogenic fusion in synovial sarcoma. <i>Cell</i> , <b>2013</b> , 153, 71-85	56.2	306
68	Dynamics and memory of heterochromatin in living cells. <i>Cell</i> , <b>2012</b> , 149, 1447-60	56.2	286
67	Understanding the words of chromatin regulation. <i>Cell</i> , <b>2009</b> , 136, 200-6	56.2	284
66	Dimerization as a regulatory mechanism in signal transduction. <i>Annual Review of Immunology</i> , <b>1998</b> , 16, 569-92	34.7	279
65	TOR kinase domains are required for two distinct functions, only one of which is inhibited by rapamycin. <i>Cell</i> , <b>1995</b> , 82, 121-30	56.2	251
64	Dimeric ligands define a role for transcriptional activation domains in reinitiation. <i>Nature</i> , <b>1996</b> , 382, 822-6	50.4	234
63	The Many Roles of BAF (mSWI/SNF) and PBAF Complexes in Cancer. <i>Cold Spring Harbor Perspectives in Medicine</i> , <b>2016</b> , 6,	5.4	204
62	esBAF facilitates pluripotency by conditioning the genome for LIF/STAT3 signalling and by regulating polycomb function. <i>Nature Cell Biology</i> , <b>2011</b> , 13, 903-13	23.4	195
61	BAF complexes facilitate decatenation of DNA by topoisomerase II $\alpha$ . <i>Nature</i> , <b>2013</b> , 497, 624-7	50.4	187
60	Harnessing chaperones to generate small-molecule inhibitors of amyloid beta aggregation. <i>Science</i> , <b>2004</b> , 306, 865-9	33.3	168
59	Dynamics of BAF-Polycomb complex opposition on heterochromatin in normal and oncogenic states. <i>Nature Genetics</i> , <b>2017</b> , 49, 213-222	36.3	146

58	Chemically induced proximity in biology and medicine. <i>Science</i> , <b>2018</b> , 359,	33.3	145
57	Rapamycin analogs with differential binding specificity permit orthogonal control of protein activity. <i>Chemistry and Biology</i> , <b>2006</b> , 13, 99-107		140
56	Engineering the ABA plant stress pathway for regulation of induced proximity. <i>Science Signaling</i> , <b>2011</b> , 4, rs2	8.8	133
55	Sequential roles of Brg, the ATPase subunit of BAF chromatin remodeling complexes, in thymocyte development. <i>Immunity</i> , <b>2003</b> , 19, 169-82	32.3	133
54	Functional analysis of Fas signaling in vivo using synthetic inducers of dimerization. <i>Current Biology</i> , <b>1996</b> , 6, 839-47	6.3	125
53	Smrca4 ATPase mutations disrupt direct eviction of PRC1 from chromatin. <i>Nature Genetics</i> , <b>2017</b> , 49, 282-288	36.3	117
52	ATP-dependent chromatin remodeling in neural development. <i>Current Opinion in Neurobiology</i> , <b>2009</b> , 19, 120-6	7.6	116
51	Chd8 Mutation Leads to Autistic-like Behaviors and Impaired Striatal Circuits. <i>Cell Reports</i> , <b>2017</b> , 19, 335-350	35.0	115
50	Chemical rescue of cleft palate and midline defects in conditional GSK-3beta mice. <i>Nature</i> , <b>2007</b> , 446, 79-82	50.4	115
49	Conditional protein alleles using knockin mice and a chemical inducer of dimerization. <i>Molecular Cell</i> , <b>2003</b> , 12, 1615-24	17.6	112
48	Rapid targeting of nuclear proteins to the cytoplasm. <i>Current Biology</i> , <b>1997</b> , 7, 638-44	6.3	97
47	The role of BAF (mSWI/SNF) complexes in mammalian neural development. <i>American Journal of Medical Genetics, Part C: Seminars in Medical Genetics</i> , <b>2014</b> , 166C, 333-49	3.1	94
46	Unusual Rel-like architecture in the DNA-binding domain of the transcription factor NFATc. <i>Nature</i> , <b>1997</b> , 385, 172-6	50.4	89
45	Dominant-negative SMARCA4 mutants alter the accessibility landscape of tissue-unrestricted enhancers. <i>Nature Structural and Molecular Biology</i> , <b>2018</b> , 25, 61-72	17.6	89
44	Rapid and reversible epigenome editing by endogenous chromatin regulators. <i>Nature Communications</i> , <b>2017</b> , 8, 560	17.4	88
43	SnapShot: Ca <sup>2+</sup> -calcineurin-NFAT signaling. <i>Cell</i> , <b>2009</b> , 138, 210, 210.e1	56.2	80
42	ACTL6a enforces the epidermal progenitor state by suppressing SWI/SNF-dependent induction of KLF4. <i>Cell Stem Cell</i> , <b>2013</b> , 12, 193-203	18	79
41	The BAF53a subunit of SWI/SNF-like BAF complexes is essential for hemopoietic stem cell function. <i>Blood</i> , <b>2012</b> , 120, 4720-32	2.2	78

40	Controlling programmed cell death with a cyclophilin-cyclosporin-based chemical inducer of dimerization. <i>Chemistry and Biology</i> , <b>1996</b> , 3, 731-8		71
39	Proximity versus allostery: the role of regulated protein dimerization in biology. <i>Chemistry and Biology</i> , <b>1994</b> , 1, 131-6		65
38	Mechanistic studies of a signaling pathway activated by the organic dimerizer FK1012. <i>Chemistry and Biology</i> , <b>1994</b> , 1, 163-72		53
37	Characterization of <i>Saccharomyces cerevisiae</i> dna2 mutants suggests a role for the helicase late in S phase. <i>Molecular Biology of the Cell</i> , <b>1997</b> , 8, 2519-37	3.5	52
36	Our fragile intellect. Part I. <i>Trends in Genetics</i> , <b>2013</b> , 29, 1-3	8.5	50
35	TOP2 synergizes with BAF chromatin remodeling for both resolution and formation of facultative heterochromatin. <i>Nature Structural and Molecular Biology</i> , <b>2017</b> , 24, 344-352	17.6	48
34	Our fragile intellect. Part II. <i>Trends in Genetics</i> , <b>2013</b> , 29, 3-5	8.5	40
33	DNA binding drives the association of BRG1/hBRM bromodomains with nucleosomes. <i>Nature Communications</i> , <b>2017</b> , 8, 16080	17.4	39
32	Dynamics of inherently bounded histone modification domains. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 13296-301	11.5	38
31	Rapid chromatin repression by Aire provides precise control of immune tolerance. <i>Nature Immunology</i> , <b>2018</b> , 19, 162-172	19.1	25
30	The BAF chromatin remodelling complex is an epigenetic regulator of lineage specification in the early mouse embryo. <i>Development (Cambridge)</i> , <b>2016</b> , 143, 1271-83	6.6	25
29	Small Molecule Targeting of Specific BAF (mSWI/SNF) Complexes for HIV Latency Reversal. <i>Cell Chemical Biology</i> , <b>2018</b> , 25, 1443-1455.e14	8.2	25
28	The BAF45a/PHF10 subunit of SWI/SNF-like chromatin remodeling complexes is essential for hematopoietic stem cell maintenance. <i>Experimental Hematology</i> , <b>2017</b> , 48, 58-71.e15	3.1	24
27	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> , <b>2009</b> , 106, 1336-41	11.5	23
26	Nucleosome Turnover Regulates Histone Methylation Patterns over the Genome. <i>Molecular Cell</i> , <b>2019</b> , 73, 61-72.e3	17.6	23
25	Screening for inhibitors of an essential chromatin remodeler in mouse embryonic stem cells by monitoring transcriptional regulation. <i>Journal of Biomolecular Screening</i> , <b>2012</b> , 17, 1221-30		22
24	A CRISPR/Cas9-Engineered -Deficient Human Gastric Cancer Organoid Model Reveals Essential and Nonessential Modes of Oncogenic Transformation. <i>Cancer Discovery</i> , <b>2021</b> , 11, 1562-1581	24.4	19
23	Immunology. Decoding calcium signaling. <i>Science</i> , <b>2005</b> , 307, 56-7	33.3	18

22	Generation of BAF53b-Cre transgenic mice with pan-neuronal Cre activities. <i>Genesis</i> , <b>2015</b> , 53, 440-8	1.9	17
21	LSH mediates gene repression through macroH2A deposition. <i>Nature Communications</i> , <b>2020</b> , 11, 5647	17.4	14
20	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> , <b>2020</b> , 117, 10055-10066	11.5	14
19	Chemically regulated transcription factors reveal the persistence of repressor-resistant transcription after disrupting activator function. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 25381-90	5.4	10
18	Chromatin regulators mediate anthracycline sensitivity in breast cancer. <i>Nature Medicine</i> , <b>2019</b> , 25, 1721-1727	10.7	10
17	BAF subunit switching regulates chromatin accessibility to control cell cycle exit in the developing mammalian cortex. <i>Genes and Development</i> , <b>2021</b> , 35, 335-353	12.6	9
16	Tethering of Lsh at the Oct4 locus promotes gene repression associated with epigenetic changes. <i>Epigenetics</i> , <b>2018</b> , 13, 173-181	5.7	8
15	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> , <b>2020</b> , 117, 22331-22340	11.5	7
14	Bursting into the nucleus. <i>Science Signaling</i> , <b>2008</b> , 1, pe54	8.8	6
13	mSWI/SNF promotes Polycomb repression both directly and through genome-wide redistribution. <i>Nature Structural and Molecular Biology</i> , <b>2021</b> , 28, 501-511	17.6	6
12	Systemic enhancement of serotonin signaling reverses social deficits in multiple mouse models for ASD. <i>Neuropsychopharmacology</i> , <b>2021</b> , 46, 2000-2010	8.7	6
11	A General Non-Radioactive ATPase Assay for Chromatin Remodeling Complexes. <i>Current Protocols in Chemical Biology</i> , <b>2017</b> , 9, 1-10	1.8	4
10	mSWI/SNF promotes polycomb repression both directly and through genome-wide redistribution		4
9	Chemical Inhibitors of a Selective SWI/SNF Function Synergize with ATR Inhibition in Cancer Cell Killing. <i>ACS Chemical Biology</i> , <b>2020</b> , 15, 1685-1696	4.9	3
8	Calcineurin/NFAT Signaling in Development and Function of the Nervous System <b>2006</b> , 353-378		2
7	Increased ACTL6A occupancy within mSWI/SNF chromatin remodelers drives human squamous cell carcinoma. <i>Molecular Cell</i> , <b>2021</b> ,	17.6	2
6	Inhibition of a Selective SWI/SNF Function Synergizes with ATR Inhibitors in Cancer Cell Killing		2
5	ACTL6a coordinates axonal caliber recognition and myelination in the peripheral nerve.. <i>IScience</i> , <b>2022</b> , 25, 104132	6.1	2

- 4 Rethinking our intellectual origins: response to Kalinka et al. *Trends in Genetics*, **2013**, 29, 127-9 8.5
- 3 Control of the early activation genes of T lymphocytes. *BioEssays*, **1986**, 5, 220-2 4.1
- 2 Small Molecule-Induced Proximity **2012**, 115-126
- 1 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 2.2