Mark Groudine

List of Publications by Year in Descending Order

69 papers	17,283 citations	50 h-index	72 g-index
72 ext. papers	19,399 ext. citations	21.9 avg, IF	6.24 L-index

#	Paper	IF	Citations
69	The redundancy of the mammalian heterochromatic compartment. *Current Opinion in Genetics and Development*, **2016**, 37, 1-8	4.9	20
68	Wash interacts with lamin and affects global nuclear organization. *Current Biology*, **2015**, 25, 804-810	6.3	40
67	Conservation of trans-acting circuitry during mammalian regulatory evolution. *Nature*, **2014**, 515, 365-70	50.4	164
66	Functional redundancy in the nuclear compartmentalization of the late-replicating genome. *Nucleus*, **2014**, 5, 626-35	3.9	28
65	Something silent this way forms: the functional organization of the repressive nuclear compartment. *Annual Review of Cell and Developmental Biology*, **2013**, 29, 241-70	12.6	73
64	UpSET-ting the balance: modulating open chromatin features in metazoan genomes. *Fly*, **2013**, 7, 153-60	1.3	2
63	The hypersensitive sites of the murine β-globin locus control region act independently to affect nuclear localization and transcriptional elongation. *Blood*, **2012**, 119, 3820-7	2.2	40
62	UpSET recruits HDAC complexes and restricts chromatin accessibility and acetylation at promoter regions. *Cell*, **2012**, 151, 1214-28	56.2	35
61	An expansive human regulatory lexicon encoded in transcription factor footprints. *Nature*, **2012**, 489, 83-90	50.4	589
60	What can systems theory of networks offer to biology?. *PLoS Computational Biology*, **2012**, 8, e1002543	5	21
59	Functional and mechanistic diversity of distal transcription enhancers. *Cell*, **2011**, 144, 327-39	56.2	598
58	On emerging nuclear order. *Journal of Cell Biology*, **2011**, 192, 711-21	7.3	106
57	Dynamics and control of state-dependent networks for probing genomic organization. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 17257-62	11.5	45
56	Networking the nucleus. *Molecular Systems Biology*, **2010**, 6, 395	12.2	14
55	Enhancers: the abundance and function of regulatory sequences beyond promoters. *Developmental Biology*, **2010**, 339, 250-7	3.1	142
54	Multiple functions of Ldb1 required for beta-globin activation during erythroid differentiation. *Blood*, **2010**, 116, 2356-64	2.2	57
53	Comprehensive mapping of long-range interactions reveals folding principles of the human genome. *Science*, **2009**, 326, 289-93	33.3	4993

52	The nucleus inside out--through a rod darkly. *Cell*, **2009**, 137, 205-7	56.2	6
51	Histone hyperacetylation within the beta-globin locus is context-dependent and precedes high-level gene expression. *Blood*, **2009**, 114, 3479-88	2.2	14
50	H3 K79 dimethylation marks developmental activation of the beta-globin gene but is reduced upon LCR-mediated high-level transcription. *Blood*, **2008**, 112, 406-14	2.2	14
49	An unmethylated 3Vpromoter-proximal region is required for efficient transcription initiation. *PLoS Genetics*, **2007**, 3, e27	6	51
48	Activator-mediated recruitment of the MLL2 methyltransferase complex to the beta-globin locus. *Molecular Cell*, **2007**, 27, 573-84	17.6	111
47	The locus control region is required for association of the murine beta-globin locus with engaged transcription factories during erythroid maturation. *Genes and Development*, **2006**, 20, 1447-57	12.6	267
46	Proximity among distant regulatory elements at the beta-globin locus requires GATA-1 and FOG-1. *Molecular Cell*, **2005**, 17, 453-62	17.6	420
45	Form follows function: The genomic organization of cellular differentiation. *Genes and Development*, **2004**, 18, 1371-84	12.6	176
44	DNA replication-timing analysis of human chromosome 22 at high resolution and different developmental states. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 17771-6	11.5	107
43	Gene order and dynamic domains. *Science*, **2004**, 306, 644-7	33.3	115
42	Intragenic DNA methylation alters chromatin structure and elongation efficiency in mammalian cells. *Nature Structural and Molecular Biology*, **2004**, 11, 1068-75	17.6	372
41	The histone modification pattern of active genes revealed through genome-wide chromatin analysis of a higher eukaryote. *Genes and Development*, **2004**, 18, 1263-71	12.6	606
40	A genetic analysis of chromosome territory looping: diverse roles for distal regulatory elements. *Chromosome Research*, **2003**, 11, 513-25	4.4	104
39	Controlling the double helix. *Nature*, **2003**, 421, 448-53	50.4	850
38	The beta -globin locus control region (LCR) functions primarily by enhancing the transition from transcription initiation to elongation. *Genes and Development*, **2003**, 17, 1009-18	12.6	138
37	Genome-wide DNA replication profile for Drosophila melanogaster: a link between transcription and replication timing. *Nature Genetics*, **2002**, 32, 438-42	36.3	275
36	Replication initiation patterns in the beta-globin loci of totipotent and differentiated murine cells: evidence for multiple initiation regions. *Molecular and Cellular Biology*, **2002**, 22, 442-52	4.8	50
35	Methylation-mediated proviral silencing is associated with MeCP2 recruitment and localized histone H3 deacetylation. *Molecular and Cellular Biology*, **2001**, 21, 7913-22	4.8	92

34	Dynamic analysis of proviral induction and De Novo methylation: implications for a histone deacetylase-independent, methylation density-dependent mechanism of transcriptional repression. *Molecular and Cellular Biology*, **2000**, 20, 842-50	4.8	118
33	Genomic targeting of methylated DNA: influence of methylation on transcription, replication, chromatin structure, and histone acetylation. *Molecular and Cellular Biology*, **2000**, 20, 9103-12	4.8	135
32	Beta-globin gene switching and DNase I sensitivity of the endogenous beta-globin locus in mice do not require the locus control region. *Molecular Cell*, **2000**, 5, 387-93	17.6	204
31	Independent formation of DnaseI hypersensitive sites in the murine β-globin locus control region. *Blood*, **2000**, 95, 3600-3604	2.2	29
30	Nuclear localization and histone acetylation: a pathway for chromatin opening and transcriptional activation of the human β-globin locus. *Genes and Development*, **2000**, 14, 940-950	12.6	138
29	A functional enhancer suppresses silencing of a transgene and prevents its localization close to centrometric heterochromatin. *Cell*, **1999**, 99, 259-69	56.2	221
28	The beta-globin LCR is not necessary for an open chromatin structure or developmentally regulated transcription of the native mouse beta-globin locus. *Molecular Cell*, **1998**, 2, 447-55	17.6	175
27	DNA cassette exchange in ES cells mediated by Flp recombinase: an efficient strategy for repeated modification of tagged loci by marker-free constructs. *Biochemistry*, **1998**, 37, 6229-34	3.2	97
26	The immunoglobulin heavy chain locus control region increases histone acetylation along linked c-myc genes. *Molecular and Cellular Biology*, **1998**, 18, 6281-92	4.8	82
25	The locus control region is necessary for gene expression in the human beta-globin locus but not the maintenance of an open chromatin structure in erythroid cells. *Molecular and Cellular Biology*, **1998**, 18, 5992-6000	4.8	155
24	Regulation of beta-globin gene expression: straightening out the locus. *Current Opinion in Genetics and Development*, **1996**, 6, 488-95	4.9	121
23	In vivo footprinting of the human IL-2 gene reveals a nuclear factor bound to the transcription start site in T cells. *Nucleic Acids Research*, **1993**, 21, 4824-9	20.1	30
22	Common mechanisms for the control of eukaryotic transcriptional elongation. *BioEssays*, **1993**, 15, 659-65	4.1	72
21	Unravelling immunoglobulin expression. *Current Biology*, **1991**, 1, 13-4	6.3	0
20	Control of c-myc regulation in normal and neoplastic cells. *Advances in Cancer Research*, **1991**, 56, 1-48	5.9	500
19	Molecular analysis of the c-myc transcription elongation block. Implications for the generation of Burkitt's lymphoma. *Annals of the New York Academy of Sciences*, **1990**, 599, 12-28	6.5	15
18	Sequence requirements for premature termination of transcription in the human c-myc gene. *Cell*, **1988**, 53, 245-56	56.2	249
17	Evidence for a locus activation region: the formation of developmentally stable hypersensitive sites in globin-expressing hybrids. *Nucleic Acids Research*, **1987**, 15, 10159-77	20.1	408

16	A block to elongation is largely responsible for decreased transcription of c-myc in differentiated HL60 cells. *Nature*, **1986**, 321, 702-6	50.4	791
15	Chromatin structure and gene expression in germ line and somatic cells. *Advances in Experimental Medicine and Biology*, **1986**, 205, 205-43	3.6	2
14	Levels of c-myc oncogene mRNA are invariant throughout the cell cycle. *Nature*, **1985**, 314, 363-6	50.4	412
13	Post-transcriptional regulation of the chicken thymidine kinase gene. *Nucleic Acids Research*, **1984**, 12, 1427-46	20.1	119
12	Alteration of c-myc chromatin structure by avian leukosis virus integration. *Nature*, **1984**, 307, 702-8	50.4	85
11	Chromatin Structure and Gene Expression. *Springer Series in Molecular Biology*, **1984**, 293-351		18
10	Role of methylation in the induced and spontaneous expression of the avian endogenous virus ev-1: DNA structure and gene products. *Molecular and Cellular Biology*, **1982**, 2, 638-52	4.8	66
9	Temperature-sensitive changes in the structure of globin chromatin in lines of red cell precursors transformed by ts-AEV. *Cell*, **1982**, 28, 931-40	56.2	102
8	Amplification of endogenous myc-related DNA sequences in a human myeloid leukaemia cell line. *Nature*, **1982**, 298, 679-81	50.4	584
7	Role of Methylation in the Induced and Spontaneous Expression of the Avian Endogenous Virus ev -1: DNA Structure and Gene Products. *Molecular and Cellular Biology*, **1982**, 2, 638-652	4.8	34
6	Alpha-Globin-gene switching during the development of chicken embryos: expression and chromosome structure. *Cell*, **1981**, 24, 333-44	56.2	351
5	Activation of globin genes during chicken development. *Cell*, **1981**, 24, 393-401	56.2	165
4	Chromatin structure of endogenous retroviral genes and activation by an inhibitor of DNA methylation. *Nature*, **1981**, 292, 311-7	50.4	452
3	Interaction of HMG 14 and 17 with actively transcribed genes. *Cell*, **1980**, 19, 289-301	56.2	346
2	Hb switching in chickens. *Cell*, **1980**, 19, 973-80	56.2	180
1	Regulation of expression and chromosomal subunit conformation of avian retrovirus genomes. *Cell*, **1978**, 14, 865-78	56.2	51