

# Mark Groudine

## List of Publications by Citations

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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	Comprehensive mapping of long-range interactions reveals folding principles of the human genome. <i>Science</i> , <b>2009</b> , 326, 289-93	33.3	4993
68	Controlling the double helix. <i>Nature</i> , <b>2003</b> , 421, 448-53	50.4	850
67	A block to elongation is largely responsible for decreased transcription of c-myc in differentiated HL60 cells. <i>Nature</i> , <b>1986</b> , 321, 702-6	50.4	791
66	The histone modification pattern of active genes revealed through genome-wide chromatin analysis of a higher eukaryote. <i>Genes and Development</i> , <b>2004</b> , 18, 1263-71	12.6	606
65	Functional and mechanistic diversity of distal transcription enhancers. <i>Cell</i> , <b>2011</b> , 144, 327-39	56.2	598
64	An expansive human regulatory lexicon encoded in transcription factor footprints. <i>Nature</i> , <b>2012</b> , 489, 83-90	50.4	589
63	Amplification of endogenous myc-related DNA sequences in a human myeloid leukaemia cell line. <i>Nature</i> , <b>1982</b> , 298, 679-81	50.4	584
62	Control of c-myc regulation in normal and neoplastic cells. <i>Advances in Cancer Research</i> , <b>1991</b> , 56, 1-48	5.9	500
61	Chromatin structure of endogenous retroviral genes and activation by an inhibitor of DNA methylation. <i>Nature</i> , <b>1981</b> , 292, 311-7	50.4	452
60	Proximity among distant regulatory elements at the beta-globin locus requires GATA-1 and FOG-1. <i>Molecular Cell</i> , <b>2005</b> , 17, 453-62	17.6	420
59	Levels of c-myc oncogene mRNA are invariant throughout the cell cycle. <i>Nature</i> , <b>1985</b> , 314, 363-6	50.4	412
58	Evidence for a locus activation region: the formation of developmentally stable hypersensitive sites in globin-expressing hybrids. <i>Nucleic Acids Research</i> , <b>1987</b> , 15, 10159-77	20.1	408
57	Intragenic DNA methylation alters chromatin structure and elongation efficiency in mammalian cells. <i>Nature Structural and Molecular Biology</i> , <b>2004</b> , 11, 1068-75	17.6	372
56	Alpha-Globin-gene switching during the development of chicken embryos: expression and chromosome structure. <i>Cell</i> , <b>1981</b> , 24, 333-44	56.2	351
55	Interaction of HMG 14 and 17 with actively transcribed genes. <i>Cell</i> , <b>1980</b> , 19, 289-301	56.2	346
54	Genome-wide DNA replication profile for <i>Drosophila melanogaster</i> : a link between transcription and replication timing. <i>Nature Genetics</i> , <b>2002</b> , 32, 438-42	36.3	275
53	The locus control region is required for association of the murine beta-globin locus with engaged transcription factories during erythroid maturation. <i>Genes and Development</i> , <b>2006</b> , 20, 1447-57	12.6	267

52	Sequence requirements for premature termination of transcription in the human c-myc gene. <i>Cell</i> , <b>1988</b> , 53, 245-56	56.2	249
51	A functional enhancer suppresses silencing of a transgene and prevents its localization close to centromeric heterochromatin. <i>Cell</i> , <b>1999</b> , 99, 259-69	56.2	221
50	Beta-globin gene switching and DNase I sensitivity of the endogenous beta-globin locus in mice do not require the locus control region. <i>Molecular Cell</i> , <b>2000</b> , 5, 387-93	17.6	204
49	Hb switching in chickens. <i>Cell</i> , <b>1980</b> , 19, 973-80	56.2	180
48	Form follows function: The genomic organization of cellular differentiation. <i>Genes and Development</i> , <b>2004</b> , 18, 1371-84	12.6	176
47	The beta-globin LCR is not necessary for an open chromatin structure or developmentally regulated transcription of the native mouse beta-globin locus. <i>Molecular Cell</i> , <b>1998</b> , 2, 447-55	17.6	175
46	Activation of globin genes during chicken development. <i>Cell</i> , <b>1981</b> , 24, 393-401	56.2	165
45	Conservation of trans-acting circuitry during mammalian regulatory evolution. <i>Nature</i> , <b>2014</b> , 515, 365-70	50.4	164
44	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. <i>Molecular and Cellular Biology</i> , <b>1998</b> , 18, 5992-6000	4.8	155
43	Enhancers: the abundance and function of regulatory sequences beyond promoters. <i>Developmental Biology</i> , <b>2010</b> , 339, 250-7	3.1	142
42	The beta -globin locus control region (LCR) functions primarily by enhancing the transition from transcription initiation to elongation. <i>Genes and Development</i> , <b>2003</b> , 17, 1009-18	12.6	138
41	Nuclear localization and histone acetylation: a pathway for chromatin opening and transcriptional activation of the human $\beta$ globin locus. <i>Genes and Development</i> , <b>2000</b> , 14, 940-950	12.6	138
40	Genomic targeting of methylated DNA: influence of methylation on transcription, replication, chromatin structure, and histone acetylation. <i>Molecular and Cellular Biology</i> , <b>2000</b> , 20, 9103-12	4.8	135
39	Regulation of beta-globin gene expression: straightening out the locus. <i>Current Opinion in Genetics and Development</i> , <b>1996</b> , 6, 488-95	4.9	121
38	Post-transcriptional regulation of the chicken thymidine kinase gene. <i>Nucleic Acids Research</i> , <b>1984</b> , 12, 1427-46	20.1	119
37	Dynamic analysis of proviral induction and De Novo methylation: implications for a histone deacetylase-independent, methylation density-dependent mechanism of transcriptional repression. <i>Molecular and Cellular Biology</i> , <b>2000</b> , 20, 842-50	4.8	118
36	Gene order and dynamic domains. <i>Science</i> , <b>2004</b> , 306, 644-7	33.3	115
35	Activator-mediated recruitment of the MLL2 methyltransferase complex to the beta-globin locus. <i>Molecular Cell</i> , <b>2007</b> , 27, 573-84	17.6	111

34	DNA replication-timing analysis of human chromosome 22 at high resolution and different developmental states. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 17771-6	11.5	107
33	On emerging nuclear order. <i>Journal of Cell Biology</i> , <b>2011</b> , 192, 711-21	7.3	106
32	A genetic analysis of chromosome territory looping: diverse roles for distal regulatory elements. <i>Chromosome Research</i> , <b>2003</b> , 11, 513-25	4.4	104
31	Temperature-sensitive changes in the structure of globin chromatin in lines of red cell precursors transformed by ts-AEV. <i>Cell</i> , <b>1982</b> , 28, 931-40	56.2	102
30	DNA cassette exchange in ES cells mediated by Flp recombinase: an efficient strategy for repeated modification of tagged loci by marker-free constructs. <i>Biochemistry</i> , <b>1998</b> , 37, 6229-34	3.2	97
29	Methylation-mediated proviral silencing is associated with MeCP2 recruitment and localized histone H3 deacetylation. <i>Molecular and Cellular Biology</i> , <b>2001</b> , 21, 7913-22	4.8	92
28	Alteration of c-myc chromatin structure by avian leukosis virus integration. <i>Nature</i> , <b>1984</b> , 307, 702-8	50.4	85
27	The immunoglobulin heavy chain locus control region increases histone acetylation along linked c-myc genes. <i>Molecular and Cellular Biology</i> , <b>1998</b> , 18, 6281-92	4.8	82
26	Something silent this way forms: the functional organization of the repressive nuclear compartment. <i>Annual Review of Cell and Developmental Biology</i> , <b>2013</b> , 29, 241-70	12.6	73
25	Common mechanisms for the control of eukaryotic transcriptional elongation. <i>BioEssays</i> , <b>1993</b> , 15, 659-661	4.1	72
24	Role of methylation in the induced and spontaneous expression of the avian endogenous virus ev-1: DNA structure and gene products. <i>Molecular and Cellular Biology</i> , <b>1982</b> , 2, 638-52	4.8	66
23	Multiple functions of Ldb1 required for beta-globin activation during erythroid differentiation. <i>Blood</i> , <b>2010</b> , 116, 2356-64	2.2	57
22	An unmethylated 3Vpromoter-proximal region is required for efficient transcription initiation. <i>PLoS Genetics</i> , <b>2007</b> , 3, e27	6	51
21	Regulation of expression and chromosomal subunit conformation of avian retrovirus genomes. <i>Cell</i> , <b>1978</b> , 14, 865-78	56.2	51
20	Replication initiation patterns in the beta-globin loci of totipotent and differentiated murine cells: evidence for multiple initiation regions. <i>Molecular and Cellular Biology</i> , <b>2002</b> , 22, 442-52	4.8	50
19	Dynamics and control of state-dependent networks for probing genomic organization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 17257-62	11.5	45
18	Wash interacts with lamin and affects global nuclear organization. <i>Current Biology</i> , <b>2015</b> , 25, 804-810	6.3	40
17	The hypersensitive sites of the murine $\beta$ globin locus control region act independently to affect nuclear localization and transcriptional elongation. <i>Blood</i> , <b>2012</b> , 119, 3820-7	2.2	40

16	UpSET recruits HDAC complexes and restricts chromatin accessibility and acetylation at promoter regions. <i>Cell</i> , <b>2012</b> , 151, 1214-28	56.2	35
15	Role of Methylation in the Induced and Spontaneous Expression of the Avian Endogenous Virus ev-1: DNA Structure and Gene Products. <i>Molecular and Cellular Biology</i> , <b>1982</b> , 2, 638-652	4.8	34
14	In vivo footprinting of the human IL-2 gene reveals a nuclear factor bound to the transcription start site in T cells. <i>Nucleic Acids Research</i> , <b>1993</b> , 21, 4824-9	20.1	30
13	Independent formation of DnaseI hypersensitive sites in the murine $\beta$ globin locus control region. <i>Blood</i> , <b>2000</b> , 95, 3600-3604	2.2	29
12	Functional redundancy in the nuclear compartmentalization of the late-replicating genome. <i>Nucleus</i> , <b>2014</b> , 5, 626-35	3.9	28
11	What can systems theory of networks offer to biology?. <i>PLoS Computational Biology</i> , <b>2012</b> , 8, e1002543	5	21
10	The redundancy of the mammalian heterochromatic compartment. <i>Current Opinion in Genetics and Development</i> , <b>2016</b> , 37, 1-8	4.9	20
9	Chromatin Structure and Gene Expression. <i>Springer Series in Molecular Biology</i> , <b>1984</b> , 293-351		18
8	Molecular analysis of the c-myc transcription elongation block. Implications for the generation of Burkitt's lymphoma. <i>Annals of the New York Academy of Sciences</i> , <b>1990</b> , 599, 12-28	6.5	15
7	Networking the nucleus. <i>Molecular Systems Biology</i> , <b>2010</b> , 6, 395	12.2	14
6	Histone hyperacetylation within the beta-globin locus is context-dependent and precedes high-level gene expression. <i>Blood</i> , <b>2009</b> , 114, 3479-88	2.2	14
5	H3 K79 dimethylation marks developmental activation of the beta-globin gene but is reduced upon LCR-mediated high-level transcription. <i>Blood</i> , <b>2008</b> , 112, 406-14	2.2	14
4	The nucleus inside out--through a rod darkly. <i>Cell</i> , <b>2009</b> , 137, 205-7	56.2	6
3	UpSET-ting the balance: modulating open chromatin features in metazoan genomes. <i>Fly</i> , <b>2013</b> , 7, 153-60	1.3	2
2	Chromatin structure and gene expression in germ line and somatic cells. <i>Advances in Experimental Medicine and Biology</i> , <b>1986</b> , 205, 205-43	3.6	2
1	Unravelling immunoglobulin expression. <i>Current Biology</i> , <b>1991</b> , 1, 13-4	6.3	0