

# Gary H Karpen

## List of Publications by Year in descending order

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89  
papers

22,980  
citations

31902

53  
h-index

53109

85  
g-index

107  
all docs

107  
docs citations

107  
times ranked

21182  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Genome Sequence of <i>Drosophila melanogaster</i> . <i>Science</i> , 2000, 287, 2185-2195.	6.0	5,566
2	Evolution of genes and genomes on the <i>Drosophila</i> phylogeny. <i>Nature</i> , 2007, 450, 203-218.	13.7	1,886
3	Phase separation drives heterochromatin domain formation. <i>Nature</i> , 2017, 547, 241-245.	13.7	1,456
4	Identification of Functional Elements and Regulatory Circuits by <i>Drosophila</i> modENCODE. <i>Science</i> , 2010, 330, 1787-1797.	6.0	1,124
5	Comprehensive analysis of the chromatin landscape in <i>Drosophila melanogaster</i> . <i>Nature</i> , 2011, 471, 480-485.	13.7	781
6	Unlocking the secrets of the genome. <i>Nature</i> , 2009, 459, 927-930.	13.7	744
7	Epigenetic regulation of centromeric chromatin: old dogs, new tricks?. <i>Nature Reviews Genetics</i> , 2008, 9, 923-937.	7.7	521
8	Centromeric chromatin exhibits a histone modification pattern that is distinct from both euchromatin and heterochromatin. <i>Nature Structural and Molecular Biology</i> , 2004, 11, 1076-1083.	3.6	518
9	Conserved Organization of Centromeric Chromatin in Flies and Humans. <i>Developmental Cell</i> , 2002, 2, 319-330.	3.1	493
10	Double-Strand Breaks in Heterochromatin Move Outside of a Dynamic HP1a Domain to Complete Recombinational Repair. <i>Cell</i> , 2011, 144, 732-744.	13.5	470
11	The case for epigenetic effects on centromere identity and function. <i>Trends in Genetics</i> , 1997, 13, 489-496.	2.9	454
12	An assessment of histone-modification antibody quality. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 91-93.	3.6	369
13	Comparative analysis of metazoan chromatin organization. <i>Nature</i> , 2014, 512, 449-452.	13.7	363
14	The Release 6 reference sequence of the <i>Drosophila melanogaster</i> genome. <i>Genome Research</i> , 2015, 25, 445-458.	2.4	359
15	H3K9 methylation and RNA interference regulate nucleolar organization and repeated DNA stability. <i>Nature Cell Biology</i> , 2007, 9, 25-35.	4.6	353
16	Heterochromatin: Guardian of the Genome. <i>Annual Review of Cell and Developmental Biology</i> , 2018, 34, 265-288.	4.0	335
17	The role of <i>Drosophila</i> CID in kinetochore formation, cell-cycle progression and heterochromatin interactions. <i>Nature Cell Biology</i> , 2001, 3, 730-739.	4.6	327
18	Mislocalization of the <i>Drosophila</i> Centromere-Specific Histone CID Promotes Formation of Functional Ectopic Kinetochores. <i>Developmental Cell</i> , 2006, 10, 303-315.	3.1	319

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19	Sequence Finishing and Mapping of <i>Drosophila melanogaster</i> Heterochromatin. <i>Science</i> , 2007, 316, 1625-1628.	6.0	264
20	Molecular Structure of a Functional <i>Drosophila</i> Centromere. <i>Cell</i> , 1997, 91, 1007-1019.	13.5	260
21	Determining centromere identity: cyclical stories and forking paths. <i>Nature Reviews Genetics</i> , 2001, 2, 584-596.	7.7	260
22	Identification of a physiological E2 module for the human anaphase-promoting complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 18213-18218.	3.3	259
23	Position-effect variegation and the new biology of heterochromatin. <i>Current Opinion in Genetics and Development</i> , 1994, 4, 281-291.	1.5	252
24	Plasticity in patterns of histone modifications and chromosomal proteins in <i>Drosophila</i> heterochromatin. <i>Genome Research</i> , 2011, 21, 147-163.	2.4	230
25	Heterochromatic breaks move to the nuclear periphery to continue recombinational repair. <i>Nature Cell Biology</i> , 2015, 17, 1401-1411.	4.6	209
26	Complete genomic and epigenetic maps of human centromeres. <i>Science</i> , 2022, 376, eabl4178.	6.0	204
27	Localization of centromere function in a <i>drosophila</i> minichromosome. <i>Cell</i> , 1995, 82, 599-609.	13.5	199
28	Neocentromere activity of structurally acentric mini-chromosomes in <i>Drosophila</i> . <i>Nature Genetics</i> , 1998, 18, 30-38.	9.4	195
29	<i>Drosophila</i> ribosomal RNA genes function as an X-Y pairing site during male meiosis. <i>Cell</i> , 1990, 61, 61-72.	13.5	187
30	Epigenetic regulation of heterochromatic DNA stability. <i>Current Opinion in Genetics and Development</i> , 2008, 18, 204-211.	1.5	183
31	The Release 5.1 Annotation of <i>Drosophila melanogaster</i> Heterochromatin. <i>Science</i> , 2007, 316, 1586-1591.	6.0	181
32	The <i>Drosophila</i> Su(var)2-10 locus regulates chromosome structure and function and encodes a member of the PIAS protein family. <i>Genes and Development</i> , 2001, 15, 1334-1348.	2.7	175
33	Genome-wide analysis reveals a cell cycle-dependent mechanism controlling centromere propagation. <i>Journal of Cell Biology</i> , 2008, 183, 805-818.	2.3	172
34	Heterochromatic Genome Stability Requires Regulators of Histone H3 K9 Methylation. <i>PLoS Genetics</i> , 2009, 5, e1000435.	1.5	168
35	Nature and function of insulator protein binding sites in the <i>Drosophila</i> genome. <i>Genome Research</i> , 2012, 22, 2188-2198.	2.4	168
36	Fragile sites in human chromosomes as regions of late-replicating DNA. <i>Trends in Genetics</i> , 1987, 3, 274-281.	2.9	161

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37	Acf1 confers unique activities to ACF/CHRAC and promotes the formation rather than disruption of chromatin in vivo. <i>Genes and Development</i> , 2004, 18, 170-183.	2.7	159
38	Sequence Analysis of a Functional <i>Drosophila</i> Centromere. <i>Genome Research</i> , 2003, 13, 182-194.	2.4	155
39	Centromere and kinetochore gene misexpression predicts cancer patient survival and response to radiotherapy and chemotherapy. <i>Nature Communications</i> , 2016, 7, 12619.	5.8	152
40	Influence of early life exposure, host genetics and diet on the mouse gut microbiome and metabolome. <i>Nature Microbiology</i> , 2017, 2, 16221.	5.9	138
41	Assembly of <i>Drosophila</i> Centromeric Chromatin Proteins during Mitosis. <i>PLoS Genetics</i> , 2011, 7, e1002068.	1.5	135
42	Centromeres Take Flight: Alpha Satellite and the Quest for the Human Centromere. <i>Cell</i> , 1998, 93, 317-320.	13.5	134
43	The Activation of a Neocentromere in <i>Drosophila</i> Requires Proximity to an Endogenous Centromere. <i>Genetics</i> , 2001, 158, 1615-1628.	1.2	121
44	Pervasive epigenetic effects of <i>Drosophila</i> euchromatic transposable elements impact their evolution. <i>ELife</i> , 2017, 6, .	2.8	102
45	A single double-strand break system reveals repair dynamics and mechanisms in heterochromatin and euchromatin. <i>Genes and Development</i> , 2016, 30, 1645-1657.	2.7	95
46	Centromere proteins and chromosome inheritance: a complex affair. <i>Current Opinion in Genetics and Development</i> , 1999, 9, 206-217.	1.5	87
47	Improved repeat identification and masking in Dipterans. <i>Gene</i> , 2007, 389, 1-9.	1.0	87
48	Centromere identity in <i>Drosophila</i> is not determined in vivo by replication timing. <i>Journal of Cell Biology</i> , 2001, 154, 683-690.	2.3	76
49	The Cell Cycle Timing of Centromeric Chromatin Assembly in <i>Drosophila</i> Meiosis Is Distinct from Mitosis Yet Requires CAL1 and CENP-C. <i>PLoS Biology</i> , 2012, 10, e1001460.	2.6	72
50	Impact of sequencing depth in ChIP-seq experiments. <i>Nucleic Acids Research</i> , 2014, 42, e74-e74.	6.5	69
51	Interactions between the nod+ kinesin-like gene and extracentromeric sequences are required for transmission of a <i>drosophila</i> minichromosome. <i>Cell</i> , 1995, 81, 139-148.	13.5	68
52	FBW7 Loss Promotes Chromosomal Instability and Tumorigenesis via Cyclin E1/CDK2-Mediated Phosphorylation of CENP-A. <i>Cancer Research</i> , 2017, 77, 4881-4893.	0.4	68
53	Compartmental restrictions and blastema formation during pattern regulation in <i>Drosophila</i> imaginal leg discs. <i>Developmental Biology</i> , 1981, 87, 64-75.	0.9	67
54	Identification of Chromosome Inheritance Modifiers in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2001, 157, 1623-1637.	1.2	61

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55	Haplotypes spanning centromeric regions reveal persistence of large blocks of archaic DNA. <i>ELife</i> , 2019, 8, .	2.8	54
56	The composition and organization of <i>Drosophila</i> heterochromatin are heterogeneous and dynamic. <i>ELife</i> , 2016, 5, .	2.8	53
57	Assembly of <i>Drosophila</i> Centromeric Nucleosomes Requires CID Dimerization. <i>Molecular Cell</i> , 2012, 45, 263-269.	4.5	50
58	A Chromosome RNAissance. <i>Cell</i> , 2002, 111, 159-162.	13.5	48
59	Sequence-Specific Targeting of Dosage Compensation in <i>Drosophila</i> Favors an Active Chromatin Context. <i>PLoS Genetics</i> , 2012, 8, e1002646.	1.5	48
60	Identification of genetic factors that modify motor performance and body weight using Collaborative Cross mice. <i>Scientific Reports</i> , 2015, 5, 16247.	1.6	47
61	Timely double-strand break repair and pathway choice in pericentromeric heterochromatin depend on the histone demethylase dKDM4A. <i>Genes and Development</i> , 2019, 33, 103-115.	2.7	45
62	Sister-chromatid cohesion via MEI-S332 and kinetochore assembly are separable functions of the <i>Drosophila</i> centromere. <i>Current Biology</i> , 2000, 10, 997-1000.	1.8	40
63	<i>Drosophila</i> CENP-A Mutations Cause a BubR1- Dependent Early Mitotic Delay without Normal Localization of Kinetochore Components. <i>PLoS Genetics</i> , 2006, 2, e110.	1.5	39
64	Nucleosomes Shape DNA Polymorphism and Divergence. <i>PLoS Genetics</i> , 2014, 10, e1004457.	1.5	38
65	<i>Drosophila</i> Histone Demethylase KDM4A Has Enzymatic and Non-enzymatic Roles in Controlling Heterochromatin Integrity. <i>Developmental Cell</i> , 2017, 42, 156-169.e5.	3.1	38
66	Extensive regulatory capabilities of a <i>Drosophila</i> imaginal disk blastema. <i>Nature</i> , 1981, 294, 744-747.	13.7	37
67	RNA from a simple-tandem repeat is required for sperm maturation and male fertility in <i>Drosophila melanogaster</i> . <i>ELife</i> , 2019, 8, .	2.8	37
68	Replication forks are not found in a <i>Drosophila</i> minichromosome demonstrating a gradient of polytenization. <i>Chromosoma</i> , 1992, 102, 15-19.	1.0	36
69	Efficient Recovery of Centric Heterochromatin <i>&lt;i&gt;P&lt;/i&gt;-Element Insertions in <i>&lt;i&gt;Drosophila melanogaster&lt;/i&gt;</i>. <i>Genetics</i>, 2002, 161, 217-229.</i>	1.2	35
70	Pericentromeric heterochromatin is hierarchically organized and spatially contacts H3K9me2 islands in euchromatin. <i>PLoS Genetics</i> , 2020, 16, e1008673.	1.5	32
71	Trans-Suppression of Terminal Deficiency-Associated Position Effect Variegation in a <i>Drosophila</i> Minichromosome. <i>Genetics</i> , 1997, 145, 325-337.	1.2	28
72	Innovation of heterochromatin functions drives rapid evolution of essential ZAD-ZNF genes in <i>Drosophila</i> . <i>ELife</i> , 2020, 9, .	2.8	28

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73	Genetics of <i>P</i> -Element Transposition Into <i>Drosophila melanogaster</i> Centric Heterochromatin. <i>Genetics</i> , 2003, 165, 2039-2053.	1.2	26
74	Modifiers of Terminal Deficiency-Associated Position Effect Variegation in <i>Drosophila</i> . <i>Genetics</i> , 2002, 160, 995-1009.	1.2	25
75	Acquisition and Metastability of Centromere Identity and Function: Sequence Analysis of a Human Neocentromere. <i>Genome Research</i> , 2000, 10, 725-728.	2.4	23
76	The ABCs of centromeres. <i>Nature Cell Biology</i> , 2006, 8, 427-429.	4.6	22
77	An interferon signature identified by RNA-sequencing of mammary tissues varies across the estrous cycle and is predictive of metastasis-free survival. <i>Oncotarget</i> , 2014, 5, 4011-4025.	0.8	19
78	Solo or doppio: how many CENP-As make a centromeric nucleosome?. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 648-650.	3.6	17
79	Identification of <i>Trans</i> -Acting Genes Necessary for Centromere Function in <i>Drosophila melanogaster</i> Using Centromere-Defective Minichromosomes. <i>Genetics</i> , 1997, 145, 737-747.	1.2	17
80	Identification of genetic loci that control mammary tumor susceptibility through the host microenvironment. <i>Scientific Reports</i> , 2015, 5, 8919.	1.6	16
81	A Specialized Nucleosome Has a "Point" to Make. <i>Cell</i> , 2007, 129, 1047-1049.	13.5	15
82	Frodos Found: Behold the CENP-A "Ring" Bearers. <i>Cell</i> , 2009, 137, 409-412.	13.5	14
83	A high proportion of genes involved in position effect variegation also affect chromosome inheritance. <i>Chromosoma</i> , 2004, 112, 269-276.	1.0	13
84	Exploring the role of CENP-A Ser18 phosphorylation in CIN and Tumorigenesis. <i>Cell Cycle</i> , 2017, 16, 2323-2325.	1.3	6
85	Editorial overview: Cell nucleus: The nucleus: a dynamic organelle. <i>Current Opinion in Cell Biology</i> , 2014, 28, iv-vii.	2.6	2
86	Title is missing!. , 2020, 16, e1008673.		0
87	Title is missing!. , 2020, 16, e1008673.		0
88	Title is missing!. , 2020, 16, e1008673.		0
89	Title is missing!. , 2020, 16, e1008673.		0