Jennifer L Gerton

List of Publications by Year
in descending order

82	8,826	87888 38	62596 80
papers	citations	h-index	g-index

93	93	93	8018
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Psychological impact of biculturalism: Evidence and theory.. Psychological Bulletin, 1993, 114, 395-412.	6.1	1,706
2	The complete sequence of a human genome. Science, 2022, 376, 44-53.	12.6	1,222
3	Telomere-to-telomere assembly of a complete human X chromosome. Nature, 2020, 585, 79-84.	27.8	549
4	Integrative structure and functional anatomy of a nuclear pore complex. Nature, 2018, 555, 475-482.	27.8	435
5	Genome-Wide Mapping of the Cohesin Complex in the Yeast Saccharomyces cerevisiae. PLoS Biology, 2004, 2, e259.	5.6	382
6	Preferential occupancy of histone variant H2AZ at inactive promoters influences local histone modifications and chromatin remodeling. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 18385-18390.	7.1	287
7	Homologous chromosome interactions in meiosis: diversity amidst conservation. Nature Reviews Genetics, 2005, 6, 477-487.	16.3	279
8	Scm3 Is Essential to Recruit the Histone H3 Variant Cse4 to Centromeres and to Maintain a Functional Kinetochore. Molecular Cell, 2007, 26, 853-865.	9.7	222
9	The structure, function and evolution of a complete human chromosome 8. Nature, 2021, 593, 101-107.	27.8	221
10	Complete genomic and epigenetic maps of human centromeres. Science, 2022, 376, eabl4178.	12.6	204
11	Psh1 Is an E3 Ubiquitin Ligase that Targets theÂCentromeric Histone Variant Cse4. Molecular Cell, 2010, 40, 444-454.	9.7	159
12	Cse4 Is Part of an Octameric Nucleosome in Budding Yeast. Molecular Cell, 2009, 35, 794-805.	9.7	156
13	From telomere to telomere: The transcriptional and epigenetic state of human repeat elements. Science, 2022, 376, eabk3112.	12.6	146
14	An Essential Interaction between Distinct Domains of HIV-1 Integrase Mediates Assembly of the Active Multimer. Journal of Biological Chemistry, 1995, 270, 3320-3326.	3.4	141
15	The Kinetochore Is an Enhancer of Pericentric Cohesin Binding. PLoS Biology, 2004, 2, e260.	5.6	136
16	Ribosomal DNA copy number loss and sequence variation in cancer. PLoS Genetics, 2017, 13, e1006771.	3.5	111
17	Cell-Cycle-Coupled Structural Oscillation of Centromeric Nucleosomes in Yeast. Cell, 2012, 150, 304-316.	28.9	92
18	Cohesinopathies, gene expression, and chromatin organization. Journal of Cell Biology, 2010, 189, 201-210.	5.2	90

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19	Ageâ€associated dysregulation of protein metabolism in the mammalian oocyte. Aging Cell, 2017, 16, 1381-1393.	6.7	86
20	Cohesinopathy mutations disrupt the subnuclear organization of chromatin. Journal of Cell Biology, 2009, 187, 455-462.	5.2	83
21	DNA replication stress restricts ribosomal DNA copy number. PLoS Genetics, 2017, 13, e1007006.	3.5	82
22	Mnd1p: An evolutionarily conserved protein required for meiotic recombination. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 6895-6900.	7.1	81
23	Cohesin Proteins Promote Ribosomal RNA Production and Protein Translation in Yeast and Human Cells. PLoS Genetics, 2012, 8, e1002749.	3.5	79
24	Effects of Mutations in Residues near the Active Site of Human Immunodeficiency Virus Type 1 Integrase on Specific Enzyme-Substrate Interactions. Journal of Virology, 1998, 72, 5046-5055.	3.4	77
25	Condensin II is anchored by TFIIIC and H3K4me3 in the mammalian genome and supports the expression of active dense gene clusters. Science Advances, 2017, 3, e1700191.	10.3	70
26	Hos1 Is a Lysine Deacetylase for the Smc3 Subunit of Cohesin. Current Biology, 2010, 20, 1660-1665.	3.9	66
27	Ribosomal DNA and the nucleolus in the context of genome organization. Chromosome Research, 2019, 27, 109-127.	2.2	65
28	Meiotic Recombination Involving Heterozygous Large Insertions in Saccharomyces cerevisiae: Formation and Repair of Large, Unpaired DNA Loops. Genetics, 2001, 158, 1457-1476.	2.9	65
29	Global Analysis of the Relationship between the Binding of the Bas1p Transcription Factor and Meiosis-Specific Double-Strand DNA Breaks in Saccharomyces cerevisiae. Molecular and Cellular Biology, 2006, 26, 1014-1027.	2.3	64
30	Stimulation of mTORC1 with L-leucine Rescues Defects Associated with Roberts Syndrome. PLoS Genetics, 2013, 9, e1003857.	3.5	63
31	Transcription Alters Chromosomal Locations of Cohesin in Saccharomyces cerevisiae. Molecular and Cellular Biology, 2007, 27, 8522-8532.	2.3	62
32	Ribosomal DNA instability and genome adaptability. Chromosome Research, 2019, 27, 73-87.	2.2	58
33	The Core Domain of HIV-1 Integrase Recognizes Key Features of Its DNA Substrates. Journal of Biological Chemistry, 1997, 272, 25809-25815.	3.4	56
34	Mnd1/Hop2 Facilitates Dmc1-Dependent Interhomolog Crossover Formation in Meiosis of Budding Yeast. Molecular and Cellular Biology, 2006, 26, 2913-2923.	2.3	49
35	Cohesin facilitates zygotic genome activation in zebrafish. Development (Cambridge), 2018, 145, .	2.5	47
36	Regulators of the Cohesin Network. Annual Review of Biochemistry, 2010, 79, 131-153.	11.1	44

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37	Cohesion promotes nucleolar structure and function. Molecular Biology of the Cell, 2014, 25, 337-346.	2.1	44
38	Scm3 Is a Centromeric Nucleosome Assembly Factor. Journal of Biological Chemistry, 2011, 286, 12016-12023.	3.4	43
39	Taking cohesin and condensin in context. PLoS Genetics, 2018, 14, e1007118.	3.5	43
40	Structural plasticity of the living kinetochore. Journal of Cell Biology, 2017, 216, 3551-3570.	5.2	42
41	Stereospecificity of Reactions Catalyzed by HIV-1 Integrase. Journal of Biological Chemistry, 1999, 274, 33480-33487.	3.4	41
42	Superresolution microscopy reveals linkages between ribosomal DNA on heterologous chromosomes. Journal of Cell Biology, 2019, 218, 2492-2513.	5.2	40
43	Cohesin and human disease: lessons from mouse models. Current Opinion in Cell Biology, 2015, 37, 9-17.	5.4	35
44	Roberts syndrome. Rare Diseases (Austin, Tex), 2014, 2, e27743.	1.8	34
45	l-leucine partially rescues translational and developmental defects associated with zebrafish models of Cornelia de Lange syndrome. Human Molecular Genetics, 2015, 24, 1540-1555.	2.9	34
46	Improved transcription and translation with L-leucine stimulation of mTORC1 in Roberts syndrome. BMC Genomics, 2016, 17, 25.	2.8	34
47	Etiology and pathogenesis of the cohesinopathies. Wiley Interdisciplinary Reviews: Developmental Biology, 2015, 4, 489-504.	5.9	32
48	Eco1 is important for DNA damage repair inS. cerevisiae. Cell Cycle, 2010, 9, 3335-3347.	2.6	31
49	The Overexpression of a Saccharomyces cerevisiae Centromeric Histone H3 Variant Mutant Protein Leads to a Defect in Kinetochore Biorientation. Genetics, 2007, 175, 513-525.	2.9	29
50	Mammalian oogenesis and female reproductive aging. Aging, 2018, 10, 162-163.	3.1	29
51	NIPBL Controls RNA Biogenesis to Prevent Activation of the Stress Kinase PKR. Cell Reports, 2016, 14, 93-102.	6.4	28
52	Intersection of ChIP and FLIP, genomic methods to study the dynamics of the cohesin proteins. Chromosome Research, 2009, 17, 155-163.	2.2	26
53	Phosphorylation by Casein Kinase 2 Facilitates Psh1 Protein-assisted Degradation of Cse4 Protein. Journal of Biological Chemistry, 2014, 289, 29297-29309.	3.4	23
54	The cohesin acetyltransferase Eco1 coordinates rDNA replication and transcription. EMBO Reports, 2014, 15, 609-617.	4.5	23

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55	Persistent DNA Damage and Senescence in the Placenta Impacts Developmental Outcomes of Embryos. Developmental Cell, 2020, 54, 333-347.e7.	7.0	23
56	Chromatin assembly factor-1 (CAF-1) chaperone regulates Cse4 deposition into chromatin in budding yeast. Nucleic Acids Research, 2018, 46, 4440-4455.	14.5	19
57	A Genetic Screen to Discover Pathways Affecting Cohesin Function inSchizosaccharomyces pombeIdentifies Chromatin Effectors. G3: Genes, Genomes, Genetics, 2012, 2, 1161-1168.	1.8	18
58	The chromosome glue gets a little stickier. Trends in Genetics, 2008, 24, 382-389.	6.7	17
59	Translational mechanisms at work in the cohesinopathies. Nucleus, 2012, 3, 520-525.	2.2	15
60	Origins and Evolutionary Patterns of the1.688Satellite DNA Family inDrosophilaPhylogeny. G3: Genes, Genomes, Genetics, 2020, 10, 4129-4146.	1.8	15
61	PCR amplicons identify widespread copy number variation in human centromeric arrays and instability in cancer. Cell Genomics, 2021, 1, 100064.	6.5	14
62	Regulation of kinetochore configuration during mitosis. Current Genetics, 2018, 64, 1197-1203.	1.7	13
63	The stoichiometry of the outer kinetochore is modulated by microtubule-proximal regulatory factors. Journal of Cell Biology, 2019, 218, 2124-2135.	5.2	12
64	Mediator recruits the cohesin loader Scc2 to RNA Pol II-transcribed genes and promotes sister chromatid cohesion. Current Biology, 2022, 32, 2884-2896.e6.	3.9	11
65	Chromosome Cohesion: A Cycle of Holding Together and Falling Apart. PLoS Biology, 2005, 3, e94.	5.6	10
66	Oocyte-specific deletion of Hdac8 in mice reveals stage-specific effects on fertility. Reproduction, 2019, 157, 305-316.	2.6	10
67	Mms21 SUMO Ligase Activity Promotes Nucleolar Function in Saccharomyces cerevisiae. Genetics, 2016, 204, 645-658.	2.9	9
68	The SMC Loader Scc2 Promotes ncRNA Biogenesis and Translational Fidelity. PLoS Genetics, 2015, 11, e1005308.	3.5	8
69	Maternal Smc3 protects the integrity of the zygotic genome through DNA replication and mitosis. Development (Cambridge), 2021, 148, .	2.5	7
70	Enhancing togetherness: kinetochores and cohesion. Genes and Development, 2007, 21, 238-241.	5.9	6
71	Ribosomal DNA-connecting ribosome biogenesis and chromosome biology. Chromosome Research, 2019, 27, 1-3.	2.2	6
72	Immature Follicular Origins and Disrupted Oocyte Growth Pathways Contribute to Decreased Gamete Quality During Reproductive Juvenescence in Mice. Frontiers in Cell and Developmental Biology, 2021, 9, 693742.	3.7	6

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73	Cse4 gets a kiss-of-death from Psh1. Cell Cycle, 2011, 10, 566-567.	2.6	4
74	Protocol for mouse trophoblast stem cell isolation, differentiation, and cytokine detection. STAR Protocols, 2021, 2, 100242.	1.2	3
75	Faulty ribosome biogenesis underlies the ribosomopathy alopecia, neurological defects, endocrinopathy (ANE) syndrome. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	3
76	The SMC loader Scc2 regulates gene expression. Cell Cycle, 2015, 14, 943-943.	2.6	2
77	DNA replication, transcription, and H3K56 acetylation regulate copy number and stability at tandem repeats. G3: Genes, Genomes, Genetics, 2021, , .	1.8	2
78	The dynamics of the Cse4 chaperone Scm3. Cell Cycle, 2011, 10, 3823-3823.	2.6	1
79	Using Fluorescent Reporters in Conjunction with Cytometry and Statistics to Assess Nuclear Accumulation of Ribosomal Proteins. Methods in Molecular Biology, 2017, 1515, 217-226.	0.9	1
80	Age-Associated Dysregulation of Protein Metabolism in the Mammalian Oocyte. Obstetrical and Gynecological Survey, 2018, 73, 580-580.	0.4	0
81	A transcription factor primes the condensin pump. Journal of Cell Biology, 2018, 217, 2233-2234.	5.2	0
82	Nucleoli Identified As Potential Markers Of Aging. , 2017, , .		0