

Beth A Sullivan

List of Publications by Year in descending order

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66
papers

7,011
citations

126858

33
h-index

143943

57
g-index

76
all docs

76
docs citations

76
times ranked

5579
citing authors

#	ARTICLE	IF	CITATIONS
1	The complete sequence of a human genome. <i>Science</i> , 2022, 376, 44-53.	6.0	1,222
2	Telomere-to-telomere assembly of a complete human X chromosome. <i>Nature</i> , 2020, 585, 79-84.	13.7	549
3	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
4	Conserved Organization of Centromeric Chromatin in Flies and Humans. <i>Developmental Cell</i> , 2002, 2, 319-330.	3.1	493
5	Immunolocalization of CENP-A suggests a distinct nucleosome structure at the inner kinetochore plate of active centromeres. <i>Current Biology</i> , 1997, 7, 901-904.	1.8	334
6	Determining centromere identity: cyclical stories and forking paths. <i>Nature Reviews Genetics</i> , 2001, 2, 584-596.	7.7	260
7	Heterochromatic sequences in a <i>Drosophila</i> whole-genome shotgun assembly. <i>Genome Biology</i> , 2002, 3, research0085.1.	13.9	232
8	Identification of centromeric antigens in dicentric Robertsonian translocations: CENP-C and CENP-E are necessary components of functional centromeres. <i>Human Molecular Genetics</i> , 1995, 4, 2189-2197.	1.4	224
9	Complete genomic and epigenetic maps of human centromeres. <i>Science</i> , 2022, 376, eabl4178.	6.0	204
10	Regulation of Mitotic Chromosome Cohesion by Haspin and Aurora B. <i>Developmental Cell</i> , 2006, 11, 741-750.	3.1	199
11	Structural and Functional Dynamics of Human Centromeric Chromatin. <i>Annual Review of Genomics and Human Genetics</i> , 2006, 7, 301-313.	2.5	159
12	Characterization of neo-centromeres in marker chromosomes lacking detectable alpha-satellite DNA. <i>Human Molecular Genetics</i> , 1997, 6, 1195-1204.	1.4	151
13	Human Centromeres Produce Chromosome-Specific and Array-Specific Alpha Satellite Transcripts that Are Complexed with CENP-A and CENP-C. <i>Developmental Cell</i> , 2017, 42, 226-240.e6.	3.1	151
14	Expanded Satellite Repeats Amplify a Discrete CENP-A Nucleosome Assembly Site on Chromosomes that Drive in Female Meiosis. <i>Current Biology</i> , 2017, 27, 2365-2373.e8.	1.8	149
15	DNMT3B interacts with constitutive centromere protein CENP-C to modulate DNA methylation and the histone code at centromeric regions. <i>Human Molecular Genetics</i> , 2009, 18, 3178-3193.	1.4	132
16	Human centromeric chromatin is a dynamic chromosomal domain that can spread over noncentromeric DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 4186-4191.	3.3	128
17	Stable dicentric X chromosomes with two functional centromeres. <i>Nature Genetics</i> , 1998, 20, 227-228.	9.4	127
18	RNA-dependent stabilization of SUV39H1 at constitutive heterochromatin. <i>ELife</i> , 2017, 6, .	2.8	124

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19	Alpha satellite DNA biology: finding function in the recesses of the genome. <i>Chromosome Research</i> , 2018, 26, 115-138.	1.0	110
20	The Past, Present, and Future of Human Centromere Genomics. <i>Genes</i> , 2014, 5, 33-50.	1.0	103
21	Genomic size of CENP-A domain is proportional to total alpha satellite array size at human centromeres and expands in cancer cells. <i>Chromosome Research</i> , 2011, 19, 457-470.	1.0	93
22	Genomic variation within alpha satellite DNA influences centromere location on human chromosomes with metastable epialleles. <i>Genome Research</i> , 2016, 26, 1301-1311.	2.4	88
23	Dicentric chromosomes: unique models to study centromere function and inactivation. <i>Chromosome Research</i> , 2012, 20, 595-605.	1.0	81
24	Neocentromeres: a place for everything and everything in its place. <i>Trends in Genetics</i> , 2014, 30, 66-74.	2.9	78
25	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
26	Functional epialleles at an endogenous human centromere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 13704-13709.	3.3	72
27	MYC Activity Mitigates Response to Rapamycin in Prostate Cancer through Eukaryotic Initiation Factor 4E-Binding Protein 1-Mediated Inhibition of Autophagy. <i>Cancer Research</i> , 2009, 69, 7803-7810.	0.4	68
28	Human gamma-satellite DNA maintains open chromatin structure and protects a transgene from epigenetic silencing. <i>Genome Research</i> , 2009, 19, 533-544.	2.4	67
29	Telomere Disruption Results in Non-Random Formation of De Novo Dicentric Chromosomes Involving Acrocentric Human Chromosomes. <i>PLoS Genetics</i> , 2010, 6, e1001061.	1.5	61
30	Epigenomics of centromere assembly and function. <i>Current Opinion in Cell Biology</i> , 2010, 22, 772-780.	2.6	60
31	Hybrid de novo genome assembly and centromere characterization of the gray mouse lemur (<i>Microcebus murinus</i>). <i>BMC Biology</i> , 2017, 15, 110.	1.7	53
32	± satellite DNA variation and function of the human centromere. <i>Nucleus</i> , 2017, 8, 331-339.	0.6	47
33	Esperanto for histones: CENP-A, not CenH3, is the centromeric histone H3 variant. <i>Chromosome Research</i> , 2013, 21, 101-106.	1.0	37
34	Inheritance of the CENP-A chromatin domain is spatially and temporally constrained at human centromeres. <i>Epigenetics and Chromatin</i> , 2016, 9, 20.	1.8	36
35	Histone Modifications within the Human X Centromere Region. <i>PLoS ONE</i> , 2009, 4, e6602.	1.1	32
36	Analysis of centromeric activity in Robertsonian translocations: implications for a functional acrocentric hierarchy. <i>Chromosoma</i> , 1994, 103, 459-467.	1.0	31

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37	Control of gene expression and assembly of chromosomal subdomains by chromatin regulators with antagonistic functions. <i>Chromosoma</i> , 2005, 114, 242-251.	1.0	26
38	A genetic memory initiates the epigenetic loop necessary to preserve centromere position. <i>EMBO Journal</i> , 2020, 39, e105505.	3.5	26
39	Optical Mapping of Protein-DNA Complexes on Chromatin Fibers. <i>Methods in Molecular Biology</i> , 2010, 659, 99-115.	0.4	25
40	Nucleolar Organization, Ribosomal DNA Array Stability, and Acrocentric Chromosome Integrity Are Linked to Telomere Function. <i>PLoS ONE</i> , 2014, 9, e92432.	1.1	24
41	Genomic and functional variation of human centromeres. <i>Experimental Cell Research</i> , 2020, 389, 111896.	1.2	22
42	Clarification of subtle reciprocal rearrangements using fluorescence in situ hybridization. <i>American Journal of Medical Genetics Part A</i> , 1993, 47, 223-230.	2.4	19
43	Centromere round-up at the heterochromatin corral. <i>Trends in Biotechnology</i> , 2002, 20, 89-92.	4.9	15
44	Genomic and Epigenetic Foundations of Neocentromere Formation. <i>Annual Review of Genetics</i> , 2021, 55, 331-348.	3.2	15
45	Regulation of nuclear Interleukin-16 and p27Kip1 in primary human T lymphocytes. <i>Cellular Immunology</i> , 2005, 237, 17-27.	1.4	14
46	Reprogramming to Pluripotency Can Conceal Somatic Cell Chromosomal Instability. <i>PLoS Genetics</i> , 2012, 8, e1002913.	1.5	14
47	Variegated aneuploidy in two siblings: Phenotype, genotype, CENP-E analysis, and literature review. , 1998, 75, 45-51.		13
48	Histone H3K4 methylation keeps centromeres open for business. <i>EMBO Journal</i> , 2011, 30, 233-234.	3.5	13
49	Human centromere repositioning within euchromatin after partial chromosome deletion. <i>Chromosome Research</i> , 2016, 24, 451-466.	1.0	13
50	Loss of nuclear pro-IL-16 facilitates cell cycle progression in human cutaneous T cell lymphoma. <i>Journal of Clinical Investigation</i> , 2011, 121, 4838-4849.	3.9	13
51	hBub1 negatively regulates p53 mediated early cell death upon mitotic checkpoint activation. <i>Cancer Biology and Therapy</i> , 2009, 8, 636-644.	1.5	11
52	Centromeres Poised En Pointe: CDKs Put a Hold on CENP-A Assembly. <i>Developmental Cell</i> , 2012, 22, 1-2.	3.1	10
53	Application of FISH to complex chromosomal rearrangements associated with chronic myelogenous leukemia. <i>Cancer Genetics and Cytogenetics</i> , 1995, 82, 93-99.	1.0	8
54	Centromere Silencing Mechanisms. <i>Progress in Molecular and Subcellular Biology</i> , 2017, 56, 233-255.	0.9	6

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55	Expanding studies of chromosome structure and function in the era of T2T genomics. Human Molecular Genetics, 2021, 30, R198-R205.	1.4	4
56	Analysis of centromeric activity in Robertsonian translocations: implications for a functional acrocentric hierarchy. Chromosoma, 1994, 103, 459-467.	1.0	4
57	Unusual chromosome architecture and behaviour at an HSR. Chromosoma, 2000, 109, 181-189.	1.0	3
58	A sampling of methods to study chromosome and genome structure and function. Chromosome Research, 2020, 28, 1-5.	1.0	1
59	The Centromere. , 2009, , 1-32.		1
60	Foreword: the centromere and kinetochore in creatures great and small. Chromosome Research, 2012, 20, 461-463.	1.0	0
61	Going the distance: Neocentromeres make long-range contacts with heterochromatin. Journal of Cell Biology, 2019, 218, 5-7.	2.3	0
62	De Novo Centromere Formation: Oneâ€™s Company, Twoâ€™s a Crowd. Developmental Cell, 2020, 52, 257-258. 3.1		0
63	Further Reading Centromeres. , 2021, , 496-502.		0
64	The new year for chromosome research: a change of guard amidst a shifting scientific landscape and global pandemic. Chromosome Research, 2021, 29, 127-130.	1.0	0
65	Centromeres. , 2004, , 367-371.		0
66	The Epigenetics of Centromere Function. , 2015, , 133-166.		0