

# Abby F Dernburg

## List of Publications by Year in descending order

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62  
papers

8,866  
citations

71061

41  
h-index

118793

62  
g-index

80  
all docs

80  
docs citations

80  
times ranked

6490  
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrative Analysis of the <i>Caenorhabditis elegans</i> Genome by the modENCODE Project. <i>Science</i> , 2010, 330, 1775-1787.	6.0	912
2	Meiotic Recombination in <i>C. elegans</i> Initiates by a Conserved Mechanism and Is Dispensable for Homologous Chromosome Synapsis. <i>Cell</i> , 1998, 94, 387-398.	13.5	747
3	The auxin-inducible degradation (AID) system enables versatile conditional protein depletion in <i>C. elegans</i> . <i>Development (Cambridge)</i> , 2015, 142, 4374-84.	1.2	453
4	Perturbation of Nuclear Architecture by Long-Distance Chromosome Interactions. <i>Cell</i> , 1996, 85, 745-759.	13.5	444
5	Direct Evidence of a Role for Heterochromatin in Meiotic Chromosome Segregation. <i>Cell</i> , 1996, 86, 135-146.	13.5	372
6	Comparative analysis of metazoan chromatin organization. <i>Nature</i> , 2014, 512, 449-452.	13.7	363
7	Chromosome Sites Play Dual Roles to Establish Homologous Synapsis during Meiosis in <i>C. elegans</i> . <i>Cell</i> , 2005, 123, 1037-1050.	13.5	290
8	X-chromosome silencing in the germline of <i>C. elegans</i> . <i>Development (Cambridge)</i> , 2002, 129, 479-492.	1.2	280
9	HIM-8 Binds to the X Chromosome Pairing Center and Mediates Chromosome-Specific Meiotic Synapsis. <i>Cell</i> , 2005, 123, 1051-1063.	13.5	270
10	Broad chromosomal domains of histone modification patterns in <i>C. elegans</i> . <i>Genome Research</i> , 2011, 21, 227-236.	2.4	256
11	Cytoskeletal Forces Span the Nuclear Envelope to Coordinate Meiotic Chromosome Pairing and Synapsis. <i>Cell</i> , 2009, 139, 907-919.	13.5	254
12	The SUN Rises on Meiotic Chromosome Dynamics. <i>Developmental Cell</i> , 2009, 17, 598-605.	3.1	238
13	<i>Caenorhabditis elegans</i> <i>msh-5</i> Is Required for Both Normal and Radiation-Induced Meiotic Crossing Over but Not for Completion of Meiosis. <i>Genetics</i> , 2000, 156, 617-630.	1.2	228
14	A Family of Zinc-Finger Proteins Is Required for Chromosome-Specific Pairing and Synapsis during Meiosis in <i>C. elegans</i> . <i>Developmental Cell</i> , 2006, 11, 817-829.	3.1	216
15	A Conserved Checkpoint Monitors Meiotic Chromosome Synapsis in <i>Caenorhabditis elegans</i> . <i>Science</i> , 2005, 310, 1683-1686.	6.0	215
16	Complete genomic and epigenetic maps of human centromeres. <i>Science</i> , 2022, 376, eabl4178.	6.0	204
17	Homologous Chromosome Pairing in <i>Drosophila melanogaster</i> Proceeds through Multiple Independent Initiations. <i>Journal of Cell Biology</i> , 1998, 141, 5-20.	2.3	195
18	Protein phosphatase 2A regulates MPF activity and sister chromatid cohesion in budding yeast. <i>Current Biology</i> , 1996, 6, 1609-1620.	1.8	183

#	ARTICLE	IF	CITATIONS
19	X-chromosome silencing in the germline of <i>C. elegans</i> . <i>Development (Cambridge)</i> , 2002, 129, 479-92.	1.2	181
20	The synaptonemal complex has liquid crystalline properties and spatially regulates meiotic recombination factors. <i>ELife</i> , 2017, 6, .	2.8	180
21	Crossovers trigger a remodeling of meiotic chromosome axis composition that is linked to two-step loss of sister chromatid cohesion. <i>Genes and Development</i> , 2008, 22, 2886-2901.	2.7	141
22	The <i>C. elegans</i> DSB-2 Protein Reveals a Regulatory Network that Controls Competence for Meiotic DSB Formation and Promotes Crossover Assurance. <i>PLoS Genetics</i> , 2013, 9, e1003674.	1.5	134
23	ZHP-3 Acts at Crossovers to Couple Meiotic Recombination with Synaptonemal Complex Disassembly and Bivalent Formation in <i>C. elegans</i> . <i>PLoS Genetics</i> , 2008, 4, e1000235.	1.5	129
24	Pairing Centers Recruit a Polo-like Kinase to Orchestrate Meiotic Chromosome Dynamics in <i>C. elegans</i> . <i>Developmental Cell</i> , 2011, 21, 934-947.	3.1	127
25	Here, There, and Everywhere. <i>Journal of Cell Biology</i> , 2001, 153, F33-F38.	2.3	123
26	Identification of chromosome sequence motifs that mediate meiotic pairing and synapsis in <i>C. elegans</i> . <i>Nature Cell Biology</i> , 2009, 11, 934-942.	4.6	123
27	Transgene-mediated cosuppression in the <i>C. elegans</i> germ line. <i>Genes and Development</i> , 2000, 14, 1578-1583.	2.7	122
28	Prelude to a Division. <i>Annual Review of Cell and Developmental Biology</i> , 2008, 24, 397-424.	4.0	118
29	Identification of DSB-1, a Protein Required for Initiation of Meiotic Recombination in <i>Caenorhabditis elegans</i> , Illuminates a Crossover Assurance Checkpoint. <i>PLoS Genetics</i> , 2013, 9, e1003679.	1.5	113
30	Dynein-dependent processive chromosome motions promote homologous pairing in <i>C. elegans</i> meiosis. <i>Journal of Cell Biology</i> , 2012, 196, 47-64.	2.3	111
31	The Chromosome Axis Controls Meiotic Events through a Hierarchical Assembly of HORMA Domain Proteins. <i>Developmental Cell</i> , 2014, 31, 487-502.	3.1	108
32	Chromosome pairing and synapsis during <i>Caenorhabditis elegans</i> meiosis. <i>Current Opinion in Cell Biology</i> , 2013, 25, 349-356.	2.6	87
33	Direct Visualization Reveals Kinetics of Meiotic Chromosome Synapsis. <i>Cell Reports</i> , 2015, 10, 1639-1645.	2.9	80
34	Cytological Analysis of Meiosis in <i>Caenorhabditis elegans</i> . <i>Methods in Molecular Biology</i> , 2009, 558, 171-195.	0.4	80
35	A compartmentalized signaling network mediates crossover control in meiosis. <i>ELife</i> , 2018, 7, .	2.8	77
36	A Link between Meiotic Prophase Progression and Crossover Control. <i>PLoS Genetics</i> , 2006, 2, e12.	1.5	72

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37	Superresolution microscopy reveals the three-dimensional organization of meiotic chromosome axes in intact <i>Caenorhabditis elegans</i> tissue. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E4734-E4743.	3.3	72
38	H4K20me1 Contributes to Downregulation of X-Linked Genes for <i>C. elegans</i> Dosage Compensation. PLoS Genetics, 2012, 8, e1002933.	1.5	70
39	The Chromosome Axis Mediates Feedback Control of CHK-2 to Ensure Crossover Formation in <i>C. elegans</i> . Developmental Cell, 2015, 35, 247-261.	3.1	69
40	Chapter 10 Mapping Three-Dimensional Chromosome Architecture in Situ. Methods in Cell Biology, 1997, 53, 187-233.	0.5	55
41	A Chromosome RNAissance. Cell, 2002, 111, 159-162.	13.5	48
42	Meiotic recombination and the crossover assurance checkpoint in <i>Caenorhabditis elegans</i> . Seminars in Cell and Developmental Biology, 2016, 54, 106-116.	2.3	47
43	Selective Loss of Sperm Bearing a Compound Chromosome in the <i>Drosophila</i> Female. Genetics, 1996, 143, 1629-1642.	1.2	30
44	In Situ Hybridization to Somatic Chromosomes in <i>Drosophila</i> . Cold Spring Harbor Protocols, 2011, 2011, pdb.top065540-pdb.top065540.	0.2	27
45	Analysis of meiosis in <i>Pristionchus pacificus</i> reveals plasticity in homolog pairing and synapsis in the nematode lineage. ELife, 2021, 10, .	2.8	21
46	A degron-based strategy reveals new insights into Aurora B function in <i>C. elegans</i> . PLoS Genetics, 2021, 17, e1009567.	1.5	17
47	How and Why Chromosomes Interact with the Cytoskeleton during Meiosis. Genes, 2022, 13, 901.	1.0	17
48	Phosphoregulation of DSB-1 mediates control of meiotic double-strand break activity. ELife, 0, 11, .	2.8	16
49	Phase separation in biology and disease—a symposium report. Annals of the New York Academy of Sciences, 2019, 1452, 3-11.	1.8	14
50	Pushing the (nuclear) envelope into meiosis. Genome Biology, 2013, 14, 110.	3.8	13
51	Diffusion through a liquid crystalline compartment regulates meiotic recombination. , 2019, , .		12
52	Hybridization to Tissues in Suspension for Whole-Mount FISH in <i>Drosophila</i> . Cold Spring Harbor Protocols, 2011, 2011, pdb.prot066902.	0.2	11
53	Fragmentation and Labeling of Probe DNA for Whole-Mount FISH in <i>Drosophila</i> . Cold Spring Harbor Protocols, 2011, 2011, pdb.prot066886.	0.2	7
54	Robust, versatile DNA FISH probes for chromosome-specific repeats in <i>Caenorhabditis elegans</i> and <i>Pristionchus pacificus</i> . G3: Genes, Genomes, Genetics, 2022, 12, .	0.8	5

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55	Meiosis Researchers Exchange Information in the Alps. <i>Developmental Cell</i> , 2003, 5, 691-693.	3.1	4
56	Manual Dissection and Fixation of <i>Drosophila</i> Egg Chambers for Whole-Mount FISH. <i>Cold Spring Harbor Protocols</i> , 2011, 2011, pdb.prot066894.	0.2	4
57	RNA Plays Meiotic Matchmaker. <i>Science</i> , 2012, 336, 681-682.	6.0	3
58	Formaldehyde Fixation of <i>Drosophila</i> Tissues onto Slides for Whole-Mount FISH. <i>Cold Spring Harbor Protocols</i> , 2012, 2012, pdb.prot067314.	0.2	3
59	Hybridization to Tissues on Slides or Coverslips for Whole-Mount FISH in <i>Drosophila</i> : Figure 1.. <i>Cold Spring Harbor Protocols</i> , 2012, 2012, pdb.prot067322.	0.2	2
60	Microdissection of <i>Drosophila</i> Polytene Chromosomes for DOP-PCR. <i>Cold Spring Harbor Protocols</i> , 2012, 2012, pdb.prot067298-pdb.prot067298.	0.2	2
61	DOP-PCR Amplification of Probe DNA for Whole-Mount FISH in <i>Drosophila</i> . <i>Cold Spring Harbor Protocols</i> , 2012, 2012, pdb.prot067306-pdb.prot067306.	0.2	2
62	A Link Between Meiotic Prophase Progression and Crossover Control. <i>PLoS Genetics</i> , 2005, preprint, e12.	1.5	1