

# Paula E Cohen

## List of Publications by Year in descending order

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57  
papers

5,915  
citations

101384

36  
h-index

155451

55  
g-index

64  
all docs

64  
docs citations

64  
times ranked

5563  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiple 9-1-1 complexes promote homolog synapsis, DSB repair, and ATR signaling during mammalian meiosis. <i>ELife</i> , 2022, 11, .	2.8	7
2	Phosphoproteomics of ATR signaling in mouse testes. <i>ELife</i> , 2022, 11, .	2.8	12
3	Somatic CAG expansion in Huntington's disease is dependent on the MLH3 endonuclease domain, which can be excluded via splice redirection. <i>Nucleic Acids Research</i> , 2021, 49, 3907-3918.	6.5	20
4	Cyclin N-Terminal Domain-Containing-1 Coordinates Meiotic Crossover Formation with Cell-Cycle Progression in a Cyclin-Independent Manner. <i>Cell Reports</i> , 2020, 32, 107858.	2.9	20
5	A mutation in the endonuclease domain of mouse MLH3 reveals novel roles for MutL <sup>3</sup> during crossover formation in meiotic prophase I. <i>PLoS Genetics</i> , 2019, 15, e1008177.	1.5	25
6	Dynamic transcriptome profiles within spermatogonial and spermatocyte populations during postnatal testis maturation revealed by single-cell sequencing. <i>PLoS Genetics</i> , 2019, 15, e1007810.	1.5	80
7	Mutation of the ATPase Domain of MutS Homolog-5 (MSH5) Reveals a Requirement for a Functional MutS <sup>3</sup> Complex for All Crossovers in Mammalian Meiosis. <i>G3: Genes, Genomes, Genetics</i> , 2019, 9, 1839-1850.	0.8	19
8	Characterization of telomeric repeat-containing RNA (TERRA) localization and protein interactions in primordial germ cells of the mouse. <i>Biology of Reproduction</i> , 2019, 100, 950-962.	1.2	9
9	Transcriptome profiling of the developing male germ line identifies the miR-29 family as a global regulator during meiosis. <i>RNA Biology</i> , 2017, 14, 219-235.	1.5	21
10	NIMA-related kinase 1 (NEK1) regulates meiosis I spindle assembly by altering the balance between $\hat{\pm}$ -Adducin and Myosin X. <i>PLoS ONE</i> , 2017, 12, e0185780.	1.1	16
11	Special issue on "Recent advances in meiotic chromosome structure, recombination and segregation". <i>Chromosoma</i> , 2016, 125, 173-175.	1.0	3
12	Control of Meiotic Crossovers: From Double-Strand Break Formation to Designation. <i>Annual Review of Genetics</i> , 2016, 50, 175-210.	3.2	311
13	Cohesin Removal along the Chromosome Arms during the First Meiotic Division Depends on a NEK1-PP1 <sup>3</sup> -WAPL Axis in the Mouse. <i>Cell Reports</i> , 2016, 17, 977-986.	2.9	31
14	Chromosome Cohesion Established by Rec8-Cohesin in Fetal Oocytes Is Maintained without Detectable Turnover in Oocytes Arrested for Months in Mice. <i>Current Biology</i> , 2016, 26, 678-685.	1.8	92
15	FancJ (Brip1) loss-of-function allele results in spermatogonial cell depletion during embryogenesis and altered processing of crossover sites during meiotic prophase I in mice. <i>Chromosoma</i> , 2016, 125, 237-252.	1.0	33
16	Double trouble in human aneuploidy. <i>Nature Genetics</i> , 2015, 47, 696-698.	9.4	10
17	<i>Dgcr8</i> and <i>Dicer</i> are essential for sex chromosome integrity during meiosis in males. <i>Journal of Cell Science</i> , 2015, 128, 2314-2327.	1.2	47
18	Mammalian CNTD1 is critical for meiotic crossover maturation and deselection of excess precrossover sites. <i>Journal of Cell Biology</i> , 2014, 205, 633-641.	2.3	80

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19	Antagonistic roles of ubiquitin ligase HEI10 and SUMO ligase RNF212 regulate meiotic recombination. <i>Nature Genetics</i> , 2014, 46, 194-199.	9.4	172
20	RNF212 is a dosage-sensitive regulator of crossing-over during mammalian meiosis. <i>Nature Genetics</i> , 2013, 45, 269-278.	9.4	231
21	SFMBT1 functions with LSD1 to regulate expression of canonical histone genes and chromatin-related factors. <i>Genes and Development</i> , 2013, 27, 749-766.	2.7	73
22	Genetic Recombination Is Targeted towards Gene Promoter Regions in Dogs. <i>PLoS Genetics</i> , 2013, 9, e1003984.	1.5	198
23	Mismatch Repair Genes Mlh1 and Mlh3 Modify CAG Instability in Huntington's Disease Mice: Genome-Wide and Candidate Approaches. <i>PLoS Genetics</i> , 2013, 9, e1003930.	1.5	175
24	Conditional Inactivation of the DNA Damage Response Gene Hus1 in Mouse Testis Reveals Separable Roles for Components of the RAD9-RAD1-HUS1 Complex in Meiotic Chromosome Maintenance. <i>PLoS Genetics</i> , 2013, 9, e1003320.	1.5	48
25	Non-human primates exhibit errors in meiosis I. <i>Molecular Reproduction and Development</i> , 2012, 79, 665-665.	1.0	0
26	AGO4 Regulates Entry into Meiosis and Influences Silencing of Sex Chromosomes in the Male Mouse Germline. <i>Developmental Cell</i> , 2012, 23, 251-264.	3.1	88
27	NEK1 Facilitates Cohesin Removal during Mammalian Spermatogenesis. <i>Genes</i> , 2011, 2, 260-279.	1.0	15
28	Mammalian BTBD12 (SLX4) Protects against Genomic Instability during Mammalian Spermatogenesis. <i>PLoS Genetics</i> , 2011, 7, e1002094.	1.5	65
29	Mammalian BLM helicase is critical for integrating multiple pathways of meiotic recombination. <i>Journal of Cell Biology</i> , 2010, 188, 779-789.	2.3	75
30	Predicting Gene Networks in Human Oocyte Meiosis. <i>Biology of Reproduction</i> , 2010, 82, 469-472.	1.2	20
31	Reproduction in Men with Klinefelter Syndrome: The Past, the Present, and the Future. <i>Seminars in Reproductive Medicine</i> , 2009, 27, 137-148.	0.5	71
32	Analysis of meiotic prophase I in live mouse spermatocytes. <i>Chromosome Research</i> , 2008, 16, 743-760.	1.0	24
33	Distinct effects of the recurrent Mlh1 <sup>G67R</sup> mutation on MMR functions, cancer, and meiosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 4247-4252.	3.3	39
34	Ubiquitylated PCNA plays a role in somatic hypermutation and class-switch recombination and is required for meiotic progression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 16248-16253.	3.3	99
35	Distinct Functions of MLH3 at Recombination Hot Spots in the Mouse. <i>Genetics</i> , 2008, 178, 1937-1945.	1.2	56
36	MUS81 Generates a Subset of MLH1-MLH3-Independent Crossovers in Mammalian Meiosis. <i>PLoS Genetics</i> , 2008, 4, e1000186.	1.5	164

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37	Comparative Analysis of Meiotic Progression in Female Mice Bearing Mutations in Genes of the DNA Mismatch Repair Pathway1. <i>Biology of Reproduction</i> , 2008, 78, 462-471.	1.2	40
38	Small RNAs and RNAi pathways in meiotic prophase I. <i>Chromosome Research</i> , 2007, 15, 653-665.	1.0	11
39	A role for Mlh3 in somatic hypermutation. <i>DNA Repair</i> , 2006, 5, 675-682.	1.3	22
40	Localization of MMR proteins on meiotic chromosomes in mice indicates distinct functions during prophase I. <i>Journal of Cell Biology</i> , 2005, 171, 447-458.	2.3	123
41	Extreme Heterogeneity in the Molecular Events Leading to the Establishment of Chiasmata during Meiosis I in Human Oocytes. <i>American Journal of Human Genetics</i> , 2005, 76, 112-127.	2.6	151
42	Mismatch repair proteins, meiosis, and mice: understanding the complexities of mammalian meiosis. <i>Experimental Cell Research</i> , 2004, 296, 71-79.	1.2	66
43	Essential Role of Fkbp6 in Male Fertility and Homologous Chromosome Pairing in Meiosis. <i>Science</i> , 2003, 300, 1291-1295.	6.0	200
44	Inactivation of Exonuclease 1 in mice results in DNA mismatch repair defects, increased cancer susceptibility, and male and female sterility. <i>Genes and Development</i> , 2003, 17, 603-614.	2.7	282
45	Meiotic arrest and aneuploidy in MLH3-deficient mice. <i>Nature Genetics</i> , 2002, 31, 385-390.	9.4	332
46	The time course and chromosomal localization of recombination-related proteins at meiosis in the mouse are compatible with models that can resolve the early DNA-DNA interactions without reciprocal recombination. <i>Journal of Cell Science</i> , 2002, 115, 1611-22.	1.2	282
47	Regulation of meiotic recombination and prophase I progression in mammals. <i>BioEssays</i> , 2001, 23, 996-1009.	1.2	105
48	Control of Spermatogenesis in Mice by the Cyclin D-Dependent Kinase Inhibitors p18 Ink4c and p19 Ink4d. <i>Molecular and Cellular Biology</i> , 2001, 21, 3244-3255.	1.1	103
49	Mammalian MutS homologue 5 is required for chromosome pairing in meiosis. <i>Nature Genetics</i> , 1999, 21, 123-127.	9.4	367
50	Macrophages: important accessory cells for reproductive function. <i>Journal of Leukocyte Biology</i> , 1999, 66, 765-772.	1.5	128
51	Colony-Stimulating Factor-1 Plays a Major Role in the Development of Reproductive Function in Male Mice. <i>Molecular Endocrinology</i> , 1997, 11, 1636-1650.	3.7	81
52	Absence of Colony Stimulating Factor-1 in Osteopetrotic (csfmop/csfmop) Mice Disrupts Estrous Cycles and Ovulation1. <i>Biology of Reproduction</i> , 1997, 56, 110-118.	1.2	127
53	Effect of the Colony-Stimulating Factor-1 Null Mutation, Osteopetrotic (csfmoP), on the Distribution of Macrophages in the Male Mouse Reproductive Tract1. <i>Biology of Reproduction</i> , 1997, 56, 1290-1300.	1.2	55
54	Mutation in the Mismatch Repair Gene Msh6 Causes Cancer Susceptibility. <i>Cell</i> , 1997, 91, 467-477.	13.5	326

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55	Meiotic Pachytene Arrest in MLH1-Deficient Mice. <i>Cell</i> , 1996, 85, 1125-1134.	13.5	528
56	Absence of Colony-Stimulating Factor-1 in Osteopetrotic (csfmOP/csfpOP) Mice Results in Male Fertility Defects. <i>Biology of Reproduction</i> , 1996, 55, 310-317.	1.2	132
57	Gene networks in oocyte meiosis. , 0, , 24-37.		0