

# Eva Hoffmann

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

2,838  
citations

201385

27  
h-index

197535

49  
g-index

71  
all docs

71  
docs citations

71  
times ranked

3789  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chromosome errors in human eggs shape natural fertility over reproductive life span. <i>Science</i> , 2019, 365, 1466-1469.	6.0	239
2	Genome-wide maps of recombination and chromosome segregation in human oocytes and embryos show selection for maternal recombination rates. <i>Nature Genetics</i> , 2015, 47, 727-735.	9.4	229
3	Genetic predisposition to mosaic Y chromosome loss in blood. <i>Nature</i> , 2019, 575, 652-657.	13.7	198
4	Genetic insights into biological mechanisms governing human ovarian ageing. <i>Nature</i> , 2021, 596, 393-397.	13.7	183
5	Human female meiosis revised: new insights into the mechanisms of chromosome segregation and aneuploidies from advanced genomics and time-lapse imaging. <i>Human Reproduction Update</i> , 2017, 23, 706-722.	5.2	159
6	Mosaic human preimplantation embryos and their developmental potential in a prospective, non-selection clinical trial. <i>American Journal of Human Genetics</i> , 2021, 108, 2238-2247.	2.6	112
7	A Mec1- and PP4-Dependent Checkpoint Couples Centromere Pairing to Meiotic Recombination. <i>Developmental Cell</i> , 2010, 19, 599-611.	3.1	100
8	FindFoci: A Focus Detection Algorithm with Automated Parameter Training That Closely Matches Human Assignments, Reduces Human Inconsistencies and Increases Speed of Analysis. <i>PLoS ONE</i> , 2014, 9, e114749.	1.1	91
9	Meiotic recombination intermediates and mismatch repair proteins. <i>Cytogenetic and Genome Research</i> , 2004, 107, 232-248.	0.6	89
10	Regulation of the MLH1-MLH3 endonuclease in meiosis. <i>Nature</i> , 2020, 586, 618-622.	13.7	88
11	Cmr1/WDR76 defines a nuclear genotoxic stress body linking genome integrity and protein quality control. <i>Nature Communications</i> , 2015, 6, 6533.	5.8	80
12	KDM4A regulates the maternal-to-zygotic transition by protecting broad H3K4me3 domains from H3K9me3 invasion in oocytes. <i>Nature Cell Biology</i> , 2020, 22, 380-388.	4.6	77
13	Smc5/6 Coordinates Formation and Resolution of Joint Molecules with Chromosome Morphology to Ensure Meiotic Divisions. <i>PLoS Genetics</i> , 2013, 9, e1004071.	1.5	70
14	The synaptonemal complex protein, Zip1, promotes the segregation of nonexchange chromosomes at meiosis I. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 781-785.	3.3	67
15	Meiotic Kinetochores Fragment into Multiple Lobes upon Cohesin Loss in Aging Eggs. <i>Current Biology</i> , 2019, 29, 3749-3765.e7.	1.8	65
16	Incidence, Origin, and Predictive Model for the Detection and Clinical Management of Segmental Aneuploidies in Human Embryos. <i>American Journal of Human Genetics</i> , 2020, 106, 525-534.	2.6	60
17	Requirement for DNA Ligase IV during Embryonic Neuronal Development. <i>Journal of Neuroscience</i> , 2011, 31, 10088-10100.	1.7	57
18	Tripolar chromosome segregation drives the association between maternal genotype at variants spanning PLK4 and aneuploidy in human preimplantation embryos. <i>Human Molecular Genetics</i> , 2018, 27, 2573-2585.	1.4	55

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19	Computational and cellular studies reveal structural destabilization and degradation of MLH1 variants in Lynch syndrome. <i>ELife</i> , 2019, 8, .	2.8	49
20	MLH1 Mutations Differentially Affect Meiotic Functions in <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> , 2003, 163, 515-526.	1.2	45
21	Preconception genome medicine: current state and future perspectives to improve infertility diagnosis and reproductive and health outcomes based on individual genomic data. <i>Human Reproduction Update</i> , 2021, 27, 254-279.	5.2	43
22	A role for the MutL homologue <i>MLH2</i> in controlling heteroduplex formation and in regulating between two different crossover pathways in budding yeast. <i>Cytogenetic and Genome Research</i> , 2004, 107, 180-190.	0.6	40
23	Improving the maturation rate of human oocytes collected <i>ex vivo</i> during the cryopreservation of ovarian tissue. <i>Journal of Assisted Reproduction and Genetics</i> , 2020, 37, 891-904.	1.2	40
24	Activation of heat shock transcription factor in yeast is not influenced by the levels of expression of heat shock proteins. <i>Molecular Microbiology</i> , 2001, 39, 914-923.	1.2	35
25	Ipl1/Aurora B kinase coordinates synaptonemal complex disassembly with cell cycle progression and crossover formation in budding yeast meiosis. <i>Genes and Development</i> , 2009, 23, 2237-2251.	2.7	35
26	Review of injection techniques for spermatogonial stem cell transplantation. <i>Human Reproduction Update</i> , 2020, 26, 368-391.	5.2	34
27	Origins and mechanisms leading to aneuploidy in human eggs. <i>Prenatal Diagnosis</i> , 2021, 41, 620-630.	1.1	33
28	ARDD 2020: from aging mechanisms to interventions. <i>Aging</i> , 2020, 12, 24484-24503.	1.4	32
29	SUMO meets meiosis: An encounter at the synaptonemal complex. <i>BioEssays</i> , 2011, 33, 529-537.	1.2	30
30	Monopolin Subunit Csm1 Associates with MIND Complex to Establish Monopolar Attachment of Sister Kinetochores at Meiosis I. <i>PLoS Genetics</i> , 2013, 9, e1003610.	1.5	28
31	Failure to recombine is a common feature of human oogenesis. <i>American Journal of Human Genetics</i> , 2021, 108, 16-24.	2.6	27
32	Chromosomal mosaicism: Origins and clinical implications in preimplantation and prenatal diagnosis. <i>Prenatal Diagnosis</i> , 2021, 41, 631-641.	1.1	27
33	A candidate gene analysis and GWAS for genes associated with maternal nondisjunction of chromosome 21. <i>PLoS Genetics</i> , 2019, 15, e1008414.	1.5	25
34	Generation of meiomaps of genome-wide recombination and chromosome segregation in human oocytes. <i>Nature Protocols</i> , 2016, 11, 1229-1243.	5.5	24
35	Identification of a unique epigenetic profile in women with diminished ovarian reserve. <i>Fertility and Sterility</i> , 2021, 115, 732-741.	0.5	21
36	Propagation of Spermatogonial Stem Cell-Like Cells From Infant Boys. <i>Frontiers in Physiology</i> , 2019, 10, 1155.	1.3	20

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37	MLH1 and MSH2 Promote the Symmetry of Double-Strand Break Repair Events at the HIS4 Hotspot in <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> , 2005, 169, 1291-1303.	1.2	19
38	Interaction of Genetic and Environmental Factors in <i>Saccharomyces cerevisiae</i> Meiosis: The Devil is in the Details. <i>Methods in Molecular Biology</i> , 2009, 557, 3-20.	0.4	18
39	Xeno-Free Propagation of Spermatogonial Stem Cells from Infant Boys. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5390.	1.8	18
40	Temperature-Dependent Modulation of Chromosome Segregation in <i>msh4</i> Mutants of Budding Yeast. <i>PLoS ONE</i> , 2009, 4, e7284.	1.1	17
41	Trans Events Associated With Crossovers Are Revealed in the Absence of Mismatch Repair Genes in <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> , 2005, 169, 1305-1310.	1.2	16
42	The G67E mutation in hMLH1 is associated with an unusual presentation of Lynch syndrome. <i>British Journal of Cancer</i> , 2009, 100, 376-380.	2.9	15
43	Genome diversity and instability in human germ cells and preimplantation embryos. <i>Seminars in Cell and Developmental Biology</i> , 2021, 113, 132-147.	2.3	14
44	Gold amides as anticancer drugs: synthesis and activity studies. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 3255.	1.5	13
45	Ipl1/Aurora Kinase Suppresses S-CDK-Driven Spindle Formation during Prophase I to Ensure Chromosome Integrity during Meiosis. <i>PLoS ONE</i> , 2013, 8, e83982.	1.1	13
46	Fertility preservation in boys facing gonadotoxic cancer therapy. <i>Nature Reviews Urology</i> , 2022, 19, 71-83.	1.9	12
47	Distinct Regulation of Mlh1p Heterodimers in Meiosis and Mitosis in <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> , 2010, 185, 459-467.	1.2	10
48	In Vitro Maturation and Culture of Human Oocytes. <i>Methods in Molecular Biology</i> , 2018, 1818, 23-30.	0.4	10
49	Single cell genomics to study DNA and chromosome changes in human gametes and embryos. <i>Methods in Cell Biology</i> , 2018, 144, 441-457.	0.5	7
50	Effect of next-generation sequencing in preimplantation genetic testing on live birth ratio. <i>Reproduction, Fertility and Development</i> , 2018, 30, 1720.	0.1	7
51	Parental Acceptance Rate of Testicular Tissue Cryopreservation in Danish Boys with Cryptorchidism. <i>Sexual Development</i> , 2019, 13, 246-257.	1.1	5
52	Cas9 in Human Embryos: On Target but No Repair. <i>Cell</i> , 2020, 183, 1464-1466.	13.5	5
53	Characterization and Survival of Human Infant Testicular Cells After Direct Xenotransplantation. <i>Frontiers in Endocrinology</i> , 2022, 13, 853482.	1.5	5
54	SureTypeSCâ€”a Random Forest and Gaussian mixture predictor of high confidence genotypes in single-cell data. <i>Bioinformatics</i> , 2019, 35, 5055-5062.	1.8	4

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55	First come, first served: Mammalian recombination is timed to replication. <i>Cell</i> , 2021, 184, 4112-4114.	13.5	3
56	Does 1st Trimester Hemoglobin A1c Predict Adverse Pregnancy Outcomes? [9E]. <i>Obstetrics and Gynecology</i> , 2019, 133, 53S-53S.	1.2	1
57	Genome-Wide Maps of Recombination and Chromosome Segregation in Human Oocytes and Embryos Show Selection for Maternal Recombination Rates. <i>Obstetrical and Gynecological Survey</i> , 2015, 70, 628-629.	0.2	0
58	SureTypeSCR: R package for rapid quality control and genotyping of SNP arrays from single cells. <i>F1000Research</i> , 0, 10, 953.	0.8	0