

James D Higgins

List of Publications by Year in descending order

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49
papers

3,807
citations

172457

29
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197818

49
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all docs

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docs citations

54
times ranked

2652
citing authors

#	ARTICLE	IF	CITATIONS
1	Sporophytic control of pollen meiotic progression is mediated by tapetum expression of <i>ABORTED MICROSPORES</i> . <i>Journal of Experimental Botany</i> , 2022, 73, 5543-5558.	4.8	6
2	FANCM promotes class I interfering crossovers and suppresses class II non-interfering crossovers in wheat meiosis. <i>Nature Communications</i> , 2022, 13, .	12.8	21
3	Distal Bias of Meiotic Crossovers in Hexaploid Bread Wheat Reflects Spatio-Temporal Asymmetry of the Meiotic Program. <i>Frontiers in Plant Science</i> , 2021, 12, 631323.	3.6	22
4	ZYP1 is required for obligate cross-over formation and cross-over interference in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	78
5	Crossover-active regions of the wheat genome are distinguished by DMC1, the chromosome axis, H3K27me3, and signatures of adaptation. <i>Genome Research</i> , 2021, 31, 1614-1628.	5.5	18
6	A novel allele of ASY3 is associated with greater meiotic stability in autotetraploid <i>Arabidopsis lyrata</i> . <i>PLoS Genetics</i> , 2020, 16, e1008900.	3.5	26
7	Rice OsBRCA2 Is Required for DNA Double-Strand Break Repair in Meiotic Cells. <i>Frontiers in Plant Science</i> , 2020, 11, 600820.	3.6	8
8	Analysis of meiotic segregation by triple-color fish on both total and motile sperm fractions in a t(1p;18) river buffalo bull. <i>PLoS ONE</i> , 2020, 15, e0232592.	2.5	7
9	<i>MutS</i> homologue 4 and <i>MutS</i> homologue 5 Maintain the Obligate Crossover in Wheat Despite Stepwise Gene Loss following Polyploidization. <i>Plant Physiology</i> , 2020, 183, 1545-1558.	4.8	24
10	Interacting Genomic Landscapes of REC8-Cohesin, Chromatin, and Meiotic Recombination in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2020, 32, 1218-1239.	6.6	57
11	A Cytological Analysis of Wheat Meiosis Targeted by Virus-Induced Gene Silencing (VIGS). <i>Methods in Molecular Biology</i> , 2020, 2061, 319-330.	0.9	8
12	<i>MSH2</i> shapes the meiotic crossover landscape in relation to interhomolog polymorphism in <i>Arabidopsis</i> . <i>EMBO Journal</i> , 2020, 39, e104858.	7.8	44
13	A Multiprotein Complex Regulates Interference-Sensitive Crossover Formation in Rice. <i>Plant Physiology</i> , 2019, 181, 221-235.	4.8	20
14	Analysis of the recombination landscape of hexaploid bread wheat reveals genes controlling recombination and gene conversion frequency. <i>Genome Biology</i> , 2019, 20, 69.	8.8	79
15	Interspecific introgression mediates adaptation to whole genome duplication. <i>Nature Communications</i> , 2019, 10, 5218.	12.8	59
16	Sexual-lineage-specific DNA methylation regulates meiosis in <i>Arabidopsis</i> . <i>Nature Genetics</i> , 2018, 50, 130-137.	21.4	153
17	MeioCapture: an efficient method for staging and isolation of meiocytes in the prophase I sub-stages of meiosis in wheat. <i>BMC Plant Biology</i> , 2018, 18, 293.	3.6	9
18	Resolvase OsGEN1 Mediates DNA Repair by Homologous Recombination. <i>Plant Physiology</i> , 2017, 173, 1316-1329.	4.8	22

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19	Recent autopolyploidization in a naturalized population of <i>Mimulus guttatus</i> (Phrymaceae). <i>Botanical Journal of the Linnean Society</i> , 2017, , .	1.6	8
20	<sc>CENH</sc>3 morphogenesis reveals dynamic centromere associations during synaptonemal complex formation and the progression through male meiosis in hexaploid wheat. <i>Plant Journal</i> , 2017, 89, 235-249.	5.7	34
21	The DNA Topoisomerase VIâ€B Subunit OsMTOPIB Is Essential for Meiotic Recombination Initiation in Rice. <i>Molecular Plant</i> , 2016, 9, 1539-1541.	8.3	30
22	MEIOTIC F-BOX Is Essential for Male Meiotic DNA Double-Strand Break Repair in Rice. <i>Plant Cell</i> , 2016, 28, 1879-1893.	6.6	50
23	A spontaneous mutation in MutLâ€Homolog 3 (Hv<sc>MLH</sc>3) affects synapsis and crossover resolution in the barley desynaptic mutant <i>des10</i>. <i>New Phytologist</i> , 2016, 212, 693-707.	7.3	44
24	Meiosis evolves: adaptation to external and internal environments. <i>New Phytologist</i> , 2015, 208, 306-323.	7.3	148
25	Arabidopsis PCH2 Mediates Meiotic Chromosome Remodeling and Maturation of Crossovers. <i>PLoS Genetics</i> , 2015, 11, e1005372.	3.5	97
26	The Synaptonemal Complex Protein ZYP1 Is Required for Imposition of Meiotic Crossovers in Barley. <i>Plant Cell</i> , 2014, 26, 729-740.	6.6	88
27	Cytological techniques to analyze meiosis in <i>Arabidopsis arenosa</i> for investigating adaptation to polyploidy. <i>Frontiers in Plant Science</i> , 2014, 4, 546.	3.6	31
28	Factors Underlying Restricted Crossover Localization in Barley Meiosis. <i>Annual Review of Genetics</i> , 2014, 48, 29-47.	7.6	60
29	Meiotic Adaptation to Genome Duplication in <i>Arabidopsis arenosa</i> . <i>Current Biology</i> , 2013, 23, 2151-2156.	3.9	217
30	Arabidopsis meiotic crossover hot spots overlap with H2A.Z nucleosomes at gene promoters. <i>Nature Genetics</i> , 2013, 45, 1327-1336.	21.4	321
31	Analyzing Meiosis in Barley. <i>Methods in Molecular Biology</i> , 2013, 990, 135-144.	0.9	9
32	Quantitative high resolution mapping of HvMLH3 foci in barley pachytene nuclei reveals a strong distal bias and weak interference. <i>Journal of Experimental Botany</i> , 2013, 64, 2139-2154.	4.8	23
33	Replication Protein A2c Coupled with Replication Protein A1c Regulates Crossover Formation during Meiosis in Rice. <i>Plant Cell</i> , 2013, 25, 3885-3899.	6.6	44
34	Inter-Homolog Crossing-Over and Synapsis in Arabidopsis Meiosis Are Dependent on the Chromosome Axis Protein AtASY3. <i>PLoS Genetics</i> , 2012, 8, e1002507.	3.5	170
35	The Fanconi Anemia Ortholog FANCM Ensures Ordered Homologous Recombination in Both Somatic and Meiotic Cells in Arabidopsis. <i>Plant Cell</i> , 2012, 24, 1448-1464.	6.6	94
36	Spatiotemporal Asymmetry of the Meiotic Program Underlies the Predominantly Distal Distribution of Meiotic Crossovers in Barley. <i>Plant Cell</i> , 2012, 24, 4096-4109.	6.6	185

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37	The RecQ helicase AtRECQ4A is required to remove interchromosomal telomeric connections that arise during meiotic recombination in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2011, 65, 492-502.	5.7	37
38	Pathways to meiotic recombination in <i>Arabidopsis thaliana</i> . <i>New Phytologist</i> , 2011, 190, 523-544.	7.3	208
39	Retinoblastoma protein is essential for early meiotic events in <i>Arabidopsis</i> . <i>EMBO Journal</i> , 2011, 30, 744-755.	7.8	41
40	ASY1 coordinates early events in the plant meiotic recombination pathway. <i>Cytogenetic and Genome Research</i> , 2008, 120, 302-312.	1.1	62
41	Expression and functional analysis of <i>AtMUS81</i> in <i>Arabidopsis</i> meiosis reveals a role in the second pathway of crossing over. <i>Plant Journal</i> , 2008, 54, 152-162.	5.7	148
42	AtMSH5 partners AtMSH4 in the class I meiotic crossover pathway in <i>Arabidopsis thaliana</i> , but is not required for synapsis. <i>Plant Journal</i> , 2008, 55, 28-39.	5.7	140
43	Control of meiotic recombination in <i>Arabidopsis</i> : role of the MutL and MutS homologues. <i>Biochemical Society Transactions</i> , 2006, 34, 542-544.	3.4	35
44	The Production of Marker-Free Genetically Engineered Broccoli with Sense and Antisense ACC synthase 1 and ACC oxidases 1 and 2 to Extend Shelf-Life. <i>Molecular Breeding</i> , 2006, 17, 7-20.	2.1	30
45	Chromosome synapsis in <i>Arabidopsis</i> : analysis of the transverse filament protein ZYP1 reveals novel functions for the synaptonemal complex. <i>Chromosoma</i> , 2006, 115, 212-219.	2.2	50
46	The <i>Arabidopsis</i> synaptonemal complex protein ZYP1 is required for chromosome synapsis and normal fidelity of crossing over. <i>Genes and Development</i> , 2005, 19, 2488-2500.	5.9	378
47	A strategy to investigate the plant meiotic proteome. <i>Cytogenetic and Genome Research</i> , 2005, 109, 181-189.	1.1	38
48	The <i>Arabidopsis</i> MutS homolog <i>AtMSH4</i> functions at an early step in recombination: evidence for two classes of recombination in <i>Arabidopsis</i> . <i>Genes and Development</i> , 2004, 18, 2557-2570.	5.9	308
49	Herbicidal action of 2-hydroxy-3-alkyl-1,4-naphthoquinones. <i>Pest Management Science</i> , 2002, 58, 234-242.	3.4	14