

Stefan Heckmann

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

947
citations

567247

15
h-index

713444

21
g-index

26
all docs

26
docs citations

26
times ranked

1172
citing authors

#	ARTICLE	IF	CITATIONS
1	Point mutation impairs centromeric CENH3 loading and induces haploid plants. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11211-11216.	7.1	126
2	The holocentric species <i>Luzula elegans</i> shows interplay between centromere and large-scale genome organization. Plant Journal, 2013, 73, 555-565.	5.7	86
3	Changing local recombination patterns in Arabidopsis by CRISPR/Cas mediated chromosome engineering. Nature Communications, 2020, 11, 4418.	12.8	82
4	<i>Arabidopsis</i> KINETOCHORE NULL2 Is an Upstream Component for Centromeric Histone H3 Variant cenH3 Deposition at Centromeres. Plant Cell, 2013, 25, 3389-3404.	6.6	80
5	Alternative meiotic chromatid segregation in the holocentric plant <i>Luzula elegans</i> . Nature Communications, 2014, 5, 4979.	12.8	77
6	Identification of ASYNAPTIC4, a Component of the Meiotic Chromosome Axis. Plant Physiology, 2018, 178, 233-246.	4.8	57
7	Affinity proteomics reveals extensive phosphorylation of the Brassica chromosome axis protein <i>ASY1</i> and a network of associated proteins at prophase I of meiosis. Plant Journal, 2018, 93, 17-33.	5.7	51
8	Imaging plant germline differentiation within Arabidopsis flowers by light sheet microscopy. ELife, 2020, 9, .	6.0	48
9	Atypical centromeres in plants – what they can tell us. Frontiers in Plant Science, 2015, 6, 913.	3.6	45
10	Super-Resolution Microscopy Reveals Diversity of Plant Centromere Architecture. International Journal of Molecular Sciences, 2020, 21, 3488.	4.1	42
11	The E2F transcription factor family regulates <i>CENH3</i> expression in <i>Arabidopsis thaliana</i> . Plant Journal, 2011, 68, 646-656.	5.7	40
12	Tackling Plant Meiosis: From Model Research to Crop Improvement. Frontiers in Plant Science, 2018, 9, 829.	3.6	39
13	Variation in Recombination Rate Is Shaped by Domestication and Environmental Conditions in Barley. Molecular Biology and Evolution, 2019, 36, 2029-2039.	8.9	39
14	The H3 histone chaperone NASP ^{SIM3} escorts CenH3 in Arabidopsis. Plant Journal, 2020, 101, 71-86.	5.7	37
15	<i>MutS</i> homologue 4 and <i>MutS</i> homologue 5 Maintain the Obligate Crossover in Wheat Despite Stepwise Gene Loss following Polyploidization. Plant Physiology, 2020, 183, 1545-1558.	4.8	24
16	Meiotic chromosome axis remodelling is critical for meiotic recombination in <i>Brassica rapa</i> . Journal of Experimental Botany, 2021, 72, 3012-3027.	4.8	22
17	Holocentric plant meiosis: first sisters, then homologues. Cell Cycle, 2014, 13, 3623-3624.	2.6	13
18	Deregulated Phosphorylation of CENH3 at Ser65 Affects the Development of Floral Meristems in <i>Arabidopsis thaliana</i> . Frontiers in Plant Science, 2019, 10, 928.	3.6	8

#	ARTICLE	IF	CITATIONS
19	The meiotic topoisomerase VI B subunit (MTOPIVIB) is essential for meiotic DNA double-strand break formation in barley (<i>Hordeum vulgare</i> L.). <i>Plant Reproduction</i> , 0, , .	2.2	7
20	Recombination Landscape Divergence Between Populations is Marked by Larger Low-Recombining Regions in Domesticated Rye. <i>Molecular Biology and Evolution</i> , 2022, 39, .	8.9	5
21	In Planta Delivery of Chemical Compounds into Barley Meiocytes: EdU as Compound Example. <i>Methods in Molecular Biology</i> , 2020, 2061, 381-402.	0.9	4
22	High-throughput measuring of meiotic recombination rates in barley pollen nuclei using Crystal Digital PCR™. <i>Plant Journal</i> , 2021, 107, 649-661.	5.7	2