

Josef Loidl

List of Publications by Year in descending order

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papers

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citations

101543

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docs citations

93
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3463
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#	ARTICLE	IF	CITATIONS
1	Disjunction of Homologous Chromosomes in Meiosis I Depends on Proteolytic Cleavage of the Meiotic Cohesin Rec8 by Separin. <i>Cell</i> , 2000, 103, 387-398.	28.9	418
2	The Mus81/Mms4 Endonuclease Acts Independently of Double-Holliday Junction Resolution to Promote a Distinct Subset of Crossovers During Meiosis in Budding Yeast. <i>Genetics</i> , 2003, 164, 81-94.	2.9	346
3	A <i>Caenorhabditis elegans</i> cohesion protein with functions in meiotic chromosome pairing and disjunction. <i>Genes and Development</i> , 2001, 15, 1349-1360.	5.9	304
4	Cohesin ensures bipolar attachment of microtubules to sister centromeres and resists their precocious separation. <i>Nature Cell Biology</i> , 2000, 2, 492-499.	10.3	290
5	The initiation of meiotic chromosome pairing: the cytological view. <i>Genome</i> , 1990, 33, 759-778.	2.0	279
6	Partner Choice during Meiosis Is Regulated by Hop1-promoted Dimerization of Mek1. <i>Molecular Biology of the Cell</i> , 2005, 16, 5804-5818.	2.1	231
7	Genetic and cytological characterization of the recombination protein RAD-51 in <i>Caenorhabditis elegans</i> . <i>Chromosoma</i> , 2003, 112, 6-16.	2.2	222
8	The Aurora B Kinase AIR-2 Regulates Kinetochores during Mitosis and Is Required for Separation of Homologous Chromosomes during Meiosis. <i>Current Biology</i> , 2002, 12, 798-812.	3.9	220
9	Yeast Nuclei Display Prominent Centromere Clustering That Is Reduced in Nondividing Cells and in Meiotic Prophase. <i>Journal of Cell Biology</i> , 1998, 141, 21-29.	5.2	186
10	Meiotic chromosome synapsis in a haploid yeast. <i>Chromosoma</i> , 1991, 100, 221-228.	2.2	173
11	The Nuclear Envelope Protein Matefin/SUN-1 Is Required for Homologous Pairing in <i>C. elegans</i> Meiosis. <i>Developmental Cell</i> , 2007, 12, 873-885.	7.0	166
12	Meiotic telomere clustering requires actin for its formation and cohesin for its resolution. <i>Journal of Cell Biology</i> , 2005, 170, 213-223.	5.2	139
13	Meiotic Segregation, Synapsis, and Recombination Checkpoint Functions Require Physical Interaction between the Chromosomal Proteins Red1p and Hop1p. <i>Molecular and Cellular Biology</i> , 2000, 20, 6646-6658.	2.3	137
14	Meiotic chromosome condensation and pairing in <i>Saccharomyces cerevisiae</i> studied by chromosome painting. <i>Chromosoma</i> , 1992, 101, 590-595.	2.2	132
15	Study of an RNA helicase implicates small RNA noncoding RNA interactions in programmed DNA elimination in <i>Tetrahymena</i> . <i>Genes and Development</i> , 2008, 22, 2228-2241.	5.9	118
16	Targeted Gene Knockout Reveals a Role in Meiotic Recombination for ZHP-3, a Zip3-Related Protein in <i>Caenorhabditis elegans</i> . <i>Molecular and Cellular Biology</i> , 2004, 24, 7998-8006.	2.3	110
17	<i>S. pombe</i> meiotic linear elements contain proteins related to synaptonemal complex components. <i>Journal of Cell Science</i> , 2004, 117, 3343-3351.	2.0	108
18	A Role for <i>MMS4</i> in the Processing of Recombination Intermediates During Meiosis in <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> , 2001, 159, 1511-1525.	2.9	101

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19	Conservation and Variability of Meiosis Across the Eukaryotes. <i>Annual Review of Genetics</i> , 2016, 50, 293-316.	7.6	96
20	A conserved function for a <i>Caenorhabditis elegans</i> Com1/Sae2/CtIP protein homolog in meiotic recombination. <i>EMBO Journal</i> , 2007, 26, 5071-5082.	7.8	94
21	Yeast Nuclear Envelope Subdomains with Distinct Abilities to Resist Membrane Expansion. <i>Molecular Biology of the Cell</i> , 2006, 17, 1768-1778.	2.1	88
22	Organization and pairing of meiotic chromosomes in the ciliate <i>Tetrahymena thermophila</i> . <i>Journal of Cell Science</i> , 2004, 117, 5791-5801.	2.0	81
23	Meiotic recombination proteins localize to linear elements in <i>Schizosaccharomyces pombe</i> . <i>Chromosoma</i> , 2006, 115, 330-340.	2.2	73
24	<i>S. pombe</i> linear elements: the modest cousins of synaptonemal complexes. <i>Chromosoma</i> , 2006, 115, 260-271.	2.2	69
25	Chapter 12 Genetic and Morphological Approaches for the Analysis of Meiotic Chromosomes in Yeast. <i>Methods in Cell Biology</i> , 1997, 53, 257-285.	1.1	68
26	Switching yeast from meiosis to mitosis: double-strand break repair, recombination and synaptonemal complex. <i>Genes To Cells</i> , 1997, 2, 487-498.	1.2	65
27	DNA double-strand breaks, but not crossovers, are required for the reorganization of meiotic nuclei in <i>Tetrahymena</i> . <i>Journal of Cell Science</i> , 2008, 121, 2148-2158.	2.0	59
28	Effects of elevated temperature on meiotic chromosome synapsis in <i>Allium ursinum</i> . <i>Chromosoma</i> , 1989, 97, 449-458.	2.2	58
29	Behaviour of nucleolus organizing regions (NORs) and nucleoli during mitotic and meiotic divisions in budding yeast. <i>Chromosome Research</i> , 2004, 12, 427-438.	2.2	57
30	The Recombinases Rad51 and Dmc1 Play Distinct Roles in DNA Break Repair and Recombination Partner Choice in the Meiosis of <i>Tetrahymena</i> . <i>PLoS Genetics</i> , 2011, 7, e1001359.	3.5	54
31	The <i>Caenorhabditis elegans</i> SCC-3 homologue is required for meiotic synapsis and for proper chromosome disjunction in mitosis and meiosis. <i>Experimental Cell Research</i> , 2003, 289, 245-255.	2.6	46
32	<i>Tetrahymena</i> Meiotic Nuclear Reorganization Is Induced by a Checkpoint Kinase-dependent Response to DNA Damage. <i>Molecular Biology of the Cell</i> , 2009, 20, 2428-2437.	2.1	46
33	Roles of Hop1 and Mek1 in Meiotic Chromosome Pairing and Recombination Partner Choice in <i>Schizosaccharomyces pombe</i> . <i>Molecular and Cellular Biology</i> , 2010, 30, 1570-1581.	2.3	45
34	C-band proximity of chiasmata and absence of terminalisation in <i>Allium flavum</i> (Liliaceae). <i>Chromosoma</i> , 1979, 73, 45-51.	2.2	42
35	MRE11 and COM1/SAE2 are required for double-strand break repair and efficient chromosome pairing during meiosis of the protist <i>Tetrahymena</i> . <i>Chromosoma</i> , 2010, 119, 505-518.	2.2	42
36	Some features of heterochromatin in wild <i>Allium</i> species. <i>Plant Systematics and Evolution</i> , 1983, 143, 117-131.	0.9	40

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37	The <i>Tetrahymena</i> meiotic chromosome bouquet is organized by centromeres and promotes interhomolog recombination. <i>Journal of Cell Science</i> , 2012, 125, 5873-5880.	2.0	36
38	The <i>Saccharomyces cerevisiae</i> MUM2 Gene Interacts With the DNA Replication Machinery and Is Required for Meiotic Levels of Double Strand Breaks. <i>Genetics</i> , 2001, 157, 1179-1189.	2.9	36
39	Analysis of active nucleolus organizing regions in <i>Capsicum</i> (Solanaceae) by silver staining. <i>American Journal of Botany</i> , 1995, 82, 276-287.	1.7	34
40	Chromosome Pairing Does Not Contribute to Nuclear Architecture in Vegetative Yeast Cells. <i>Eukaryotic Cell</i> , 2003, 2, 856-866.	3.4	34
41	<i>Caenorhabditis elegans</i> prom-1 Is Required for Meiotic Prophase Progression and Homologous Chromosome Pairing. <i>Molecular Biology of the Cell</i> , 2007, 18, 4911-4920.	2.1	34
42	Msh4 and Msh5 Function in SC-Independent Chiasma Formation During the Streamlined Meiosis of <i>Tetrahymena</i> . <i>Genetics</i> , 2014, 198, 983-993.	2.9	33
43	Analysis of Active Nucleolus Organizing Regions in <i>Capsicum</i> (Solanaceae) by Silver Staining. <i>American Journal of Botany</i> , 1995, 82, 276.	1.7	33
44	A Single Cohesin Complex Performs Mitotic and Meiotic Functions in the Protist <i>Tetrahymena</i> . <i>PLoS Genetics</i> , 2013, 9, e1003418.	3.5	32
45	Meiosis Gene Inventory of Four Ciliates Reveals the Prevalence of a Synaptonemal Complex-Independent Crossover Pathway. <i>Molecular Biology and Evolution</i> , 2014, 31, 660-672.	8.9	32
46	Post-meiotic DNA double-strand breaks occur in <i>Tetrahymena</i> , and require Topoisomerase II and Spo11. <i>ELife</i> , 2017, 6, .	6.0	31
47	SUMOylation is required for normal development of linear elements and wild-type meiotic recombination in <i>Schizosaccharomyces pombe</i> . <i>Chromosoma</i> , 2010, 119, 59-72.	2.2	30
48	Spatial organisation and behaviour of the parental chromosome sets in the nuclei of <i>Saccharomyces cerevisiae</i> A– S. paradoxus hybrids. <i>Journal of Cell Science</i> , 2002, 115, 3829-3835.	2.0	29
49	Mus81 nuclease and Sgs1 helicase are essential for meiotic recombination in a protist lacking a synaptonemal complex. <i>Nucleic Acids Research</i> , 2013, 41, 9296-9309.	14.5	29
50	Chromosome associations in budding yeast caused by integrated tandemly repeated transgenes. <i>Journal of Cell Science</i> , 2002, 115, 1213-1220.	2.0	29
51	Light Microscopical Observations on Surface Spread Synaptonemal Complexes of <i>Allium ursinum</i> . <i>Caryologia</i> , 1984, 37, 415-421.	0.3	27
52	Mug20, a novel protein associated with linear elements in fission yeast meiosis. <i>Current Genetics</i> , 2012, 58, 119-127.	1.7	27
53	Chromosomes of the budding yeast <i>Saccharomyces cerevisiae</i> . <i>International Review of Cytology</i> , 2003, 222, 141-196.	6.2	25
54	Karyotype Variability in Yeast Caused by Nonallelic Recombination in Haploid Meiosis. <i>Genetics</i> , 1997, 146, 79-88.	2.9	25

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55	Increased ploidy and KAR3 and SIR3 disruption alter the dynamics of meiotic chromosomes and telomeres. <i>Journal of Cell Science</i> , 2003, 116, 2431-2442.	2.0	24
56	The Rad52 Homologs Rad22 and Rti1 of <i>Schizosaccharomyces pombe</i> Are Not Essential for Meiotic Interhomolog Recombination, but Are Required for Meiotic Intrachromosomal Recombination and Mating-Type-Related DNA Repair. <i>Genetics</i> , 2008, 178, 2399-2412.	2.9	24
57	Mutations in <i>Caenorhabditis elegans</i> him-19 Show Meiotic Defects That Worsen with Age. <i>Molecular Biology of the Cell</i> , 2010, 21, 885-896.	2.1	24
58	Coming to grips with a complex matter. <i>Chromosoma</i> , 1991, 100, 289-292.	2.2	23
59	Morphology of a human-derived YAC in yeast meiosis. <i>Chromosoma</i> , 1995, 104, 183-188.	2.2	23
60	Tetrahymena meiosis: Simple yet ingenious. <i>PLoS Genetics</i> , 2021, 17, e1009627.	3.5	22
61	B-Chromosomes in <i>Allium flavum</i> (Liliaceae) and some related species. <i>Plant Systematics and Evolution</i> , 1982, 139, 197-207.	0.9	19
62	Structural changes of Ag-stained nucleolus organizing regions and nucleoli during meiosis in <i>Allium flavum</i> . <i>Genome</i> , 1983, 25, 524-529.	0.7	19
63	DNA double-strand break formation and repair in Tetrahymena meiosis. <i>Seminars in Cell and Developmental Biology</i> , 2016, 54, 126-134.	5.0	19
64	Meiotic pairing and segregation of translocation quadrivalents in yeast. <i>Chromosoma</i> , 1998, 107, 247-254.	2.2	18
65	Surprising Genetic Diversity in <i>Rhinolophus luctus</i> (Chiroptera: Rhinolophidae) from Peninsular Malaysia: Description of a New Species Based on Genetic and Morphological Characters. <i>Acta Chiropterologica</i> , 2015, 17, 1-20.	0.6	18
66	A New Thermosensitive smc-3 Allele Reveals Involvement of Cohesin in Homologous Recombination in <i>C. elegans</i> . <i>PLoS ONE</i> , 2011, 6, e24799.	2.5	17
67	A chromatin-associated protein required for inducing and limiting meiotic DNA double-strand break formation. <i>Nucleic Acids Research</i> , 2018, 46, 11822-11834.	14.5	17
68	Analysis of <i>Schizosaccharomyces pombe</i> Meiosis by Nuclear Spreading. <i>Methods in Molecular Biology</i> , 2009, 558, 15-36.	0.9	17
69	Exo1 and Mre11 execute meiotic DSB end resection in the protist Tetrahymena. <i>DNA Repair</i> , 2015, 35, 137-143.	2.8	16
70	A Zip3-like protein plays a role in crossover formation in the SC-less meiosis of the protist <i>Tetrahymena</i> . <i>Molecular Biology of the Cell</i> , 2017, 28, 825-833.	2.1	16
71	SC-formation in some <i>Allium</i> species, and a discussion of the significance of SC-associated structures and of the mechanisms for presynaptic alignment. <i>Plant Systematics and Evolution</i> , 1987, 158, 117-131.	0.9	15
72	Simulation of chromosomal homology searching in meiotic pairing. <i>Journal of Theoretical Biology</i> , 1995, 176, 247-260.	1.7	15

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73	Differential Activation of M26-Containing Meiotic Recombination Hot Spots in <i>Schizosaccharomyces pombe</i> . <i>Genetics</i> , 2005, 170, 95-106.	2.9	15
74	Condensins promote chromosome individualization and segregation during mitosis, meiosis, and amitosis in <i>Tetrahymena thermophila</i> . <i>Molecular Biology of the Cell</i> , 2018, 29, 466-478.	2.1	15
75	Linear Element-Independent Meiotic Recombination in <i>Schizosaccharomyces pombe</i> . <i>Genetics</i> , 2006, 174, 1105-1114.	2.9	13
76	Spatial constraints on chromosomes are instrumental to meiotic pairing. <i>Journal of Cell Science</i> , 2020, 133, .	2.0	12
77	A streamlined cohesin apparatus is sufficient for mitosis and meiosis in the protist <i>Tetrahymena</i> . <i>Chromosoma</i> , 2018, 127, 421-435.	2.2	11
78	Evaluation of models of homologue search with respect to their efficiency on meiotic pairing. <i>Heredity</i> , 1993, 71, 342-351.	2.6	10
79	Non-coding RNA Transcription in <i>Tetrahymena</i> Meiotic Nuclei Requires Dedicated Mediator Complex-Associated Proteins. <i>Current Biology</i> , 2019, 29, 2359-2370.e5.	3.9	9
80	A specialized condensin complex participates in somatic nuclear maturation in <i>Tetrahymena thermophila</i> . <i>Molecular Biology of the Cell</i> , 2019, 30, 1326-1338.	2.1	8
81	An MCM family protein promotes interhomolog recombination by preventing precocious intersister repair of meiotic DSBs. <i>PLoS Genetics</i> , 2019, 15, e1008514.	3.5	6
82	The Transmembrane Protein Semi1 Positions Gamete Nuclei for Reciprocal Fertilization in <i>Tetrahymena</i> . <i>IScience</i> , 2020, 23, 100749.	4.1	5
83	The Hidden Talents of SPO11. <i>Developmental Cell</i> , 2013, 24, 123-124.	7.0	4
84	BIME2, a novel gene required for interhomolog meiotic recombination in the protist model organism <i>Tetrahymena</i> . <i>Chromosome Research</i> , 2017, 25, 291-298.	2.2	4
85	Resistance to 6-Methylpurine is Conferred by Defective Adenine Phosphoribosyltransferase in <i>Tetrahymena</i> . <i>Genes</i> , 2018, 9, 179.	2.4	4
86	Meiosis in budding yeast and in multicellular eukaryotes – similarities and differences. , 2000, , 123-137.		4
87	Arrested crossover precursor structures form stable homologous bonds in a <i>Tetrahymena</i> meiotic mutant. <i>PLoS ONE</i> , 2022, 17, e0263691.	2.5	2
88	Banding of <i>Allium</i> Chromosomes Protected Against Dnase Digestion by Dna-Binding Drugs. <i>Biotechnic & Histochemistry</i> , 1985, 60, 13-19.	0.4	1
89	Discussion of the Brazilian neurologists about sudden unexpected death in epilepsy. <i>Revista Da Associação Médica Brasileira</i> , 2022, 68, 675-679.	0.7	1
90	Elongated Bodies in SC-Spreads of Male <i>Grylloblatta campodeiformis</i> (Orthoptera). <i>Caryologia</i> , 1990, 43, 1-7.	0.3	0

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91	A cellular automaton model for chromosome interlocking in meiotic pairing. Simulation Modelling Practice and Theory, 1998, 6, 269-280.	0.3	0