Charles I White

List of Publications by Year
in descending order

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68 papers	4,372 citations	117625 34 h-index	110387 64 g-index
71 all docs	71 docs citations	71 times ranked	3623 citing authors

#	Article	IF	Citations
1	A Role for Small RNAs in DNA Double-Strand Break Repair. Cell, 2012, 149, 101-112.	28.9	537
2	Intermediates of recombination during mating type switching in Saccharomyces cerevisiae.. EMBO Journal, 1990, 9, 663-673.	7.8	373
3	Mutations in XRS2 and RAD50 delay but do not prevent mating-type switching in Saccharomyces cerevisiae.. Molecular and Cellular Biology, 1994, 14, 3414-3425.	2.3	222
4	Isolation and characterisation of the RAD51 and DMC1 homologs from Arabidopsis thaliana. Molecular Genetics and Genomics, 1998, 257, 283-291.	2.4	206
5	Differing requirements for the Arabidopsis Rad51 paralogs in meiosis and DNA repair. Plant Journal, 2005, 41, 533-545.	5.7	143
6	Meiotic Recombination in Arabidopsis Is Catalysed by DMC1, with RAD51 Playing a Supporting Role. PLoS Genetics, 2013, 9, e1003787.	3.5	129
7	The Arabidopsis homologue of Xrcc3 plays an essential role in meiosis. EMBO Journal, 2004, 23, 439-449.	7.8	128
8	Disruption of the Arabidopsis RAD50 gene leads to plant sterility and MMS sensitivity. Plant Journal, 2001, 25, 31-41.	5.7	128
9	Distinct Roles of the ATR Kinase and the Mre11-Rad50-Nbs1 Complex in the Maintenance of Chromosomal Stability in Arabidopsis. Plant Cell, 2010, 22, 3020-3033.	6.6	119
10	Physical monitoring of mating type switching in Saccharomyces cerevisiae.. Molecular and Cellular Biology, 1988, 8, 2342-2349.	2.3	114
11	RAD50function is essential for telomere maintenance inArabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 1711-1716.	7.1	109
12	<scp>CRISPR</scp>â€Cas9â€mediated efficient directed mutagenesis and <scp>RAD</scp>51â€dependent and <scp>RAD</scp>51â€independent gene targeting in the moss Physcomitrella patens. Plant Biotechnology Journal, 2017, 15, 122-131.	8.3	104
13	Ku80 plays a role in nonâ€homologous recombination but is not required for Tâ€DNA integration inArabidopsis. Plant Journal, 2003, 35, 557-565.	5.7	102
14	Meiotic defects in the Arabidopsis rad50 mutant point to conservation of the MRX complex function in early stages of meiotic recombination. Chromosoma, 2004, 113, 197-203.	2.2	100
15	Homologous recombinationin plantais stimulated in the absence of Rad50. EMBO Reports, 2001, 2, 287-291.	4.5	99
16	Kinetic analysis of DNA double-strand break repair pathways in Arabidopsis. DNA Repair, 2011, 10, 611-619.	2.8	93
17	Recent advances in understanding of the DNA double-strand break repair machinery of plants. DNA Repair, 2006, 5, 1-12.	2.8	91
18	Involvement of KU80 in T-DNA integration in plant cells. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 19231-19236.	7.1	79

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19	Xrcc1-dependent and Ku-dependent DNA double-strand break repair kinetics in Arabidopsis plants. Plant Journal, 2010, 64, 280-290.	5.7	79
20	Rapid kinetics of mismatch repair of heteroduplex DNA that is formed during recombination in yeast.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 3363-3367.	7.1	73
21	Telomerase Dependence of Telomere Lengthening in ku80 Mutant Arabidopsis. Plant Cell, 2003, 15, 782-789.	6.6	70
22	Rapid repair of DNA double strand breaks in Arabidopsis thaliana is dependent on proteins involved in chromosome structure maintenance. DNA Repair, 2009, 8, 413-419.	2.8	68
23	The plant Rad50-Mre11 protein complex. FEBS Letters, 2002, 516, 164-166.	2.8	61
24	Roles of XRCC2, RAD51B and RAD51D in RAD51-Independent SSA Recombination. PLoS Genetics, 2013, 9, e1003971.	3.5	59
25	Role of the AtRad1p endonuclease in homologous recombination in plants. EMBO Reports, 2002, 3, 1049-1054.	4.5	56
26	Roles of the AtErcc1 protein in recombination. Plant Journal, 2004, 39, 334-342.	5.7	49
27	Positive-negative selection and T-DNA stability in Arabidopsis transformation. Plant Molecular Biology, 1999, 39, 83-93.	3.9	47
28	Differing Requirements for RAD51 and DMC1 in Meiotic Pairing of Centromeres and Chromosome Arms in Arabidopsis thaliana. PLoS Genetics, 2012, 8, e1002636.	3.5	46
29	Towards targeted mutagenesis and gene replacement in plants. Trends in Biotechnology, 2005, 23, 567-569.	9.3	44
30	Two roles for Rad50 in telomere maintenance. EMBO Journal, 2006, 25, 4577-4585.	7.8	43
31	ERCC1/XPF Protects Short Telomeres from Homologous Recombination in Arabidopsis thaliana. PLoS Genetics, 2009, 5, e1000380.	3.5	43
32	ArabidopsisATM and ATR Kinases Prevent Propagation of Genome Damage Caused by Telomere Dysfunction. Plant Cell, 2011, 23, 4254-4265.	6.6	42
33	Homologyâ€dependent repair is involved in 45<scp>S rDNA</scp> loss in plant <scp>CAF</scp>â€1 mutants. Plant Journal, 2015, 81, 198-209.	5.7	42
34	Gene targeting in maize by somatic ectopic recombination. Plant Biotechnology Journal, 2013, 11, 305-314.	8.3	40
35	Centromere Associations in Meiotic Chromosome Pairing. Annual Review of Genetics, 2015, 49, 95-114.	7.6	39
36	Effects of <scp>XRCC2</scp> and <scp>RAD51B</scp> mutations on somatic and meiotic recombination in <scp>A</scp>rabidopsis thaliana. Plant Journal, 2013, 74, 959-970.	5.7	38

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37	Signaling of double strand breaks and deprotected telomeres in Arabidopsis. Frontiers in Plant Science, 2013, 4, 405.	3.6	37
38	<scp>RAD</scp>54 forms <scp>DNA</scp> repair foci in response to <scp>DNA</scp> damage in living plant cells. Plant Journal, 2017, 90, 372-382.	5.7	35
39	Arabidopsis thaliana RNase H2 Deficiency Counteracts the Needs for the WEE1 Checkpoint Kinase but Triggers Genome Instability Â. Plant Cell, 2014, 26, 3680-3692.	6.6	33
40	The use of plasmid DNA to probe DNA repair functions in the yeast Saccharomyces cerevisiae. Molecular Genetics and Genomics, 1985, 201, 99-106.	2.4	32
41	Multiple hostâ€cell recombination pathways act in <scp>A</scp>grobacteriumâ€mediated transformation of plant cells. Plant Journal, 2014, 77, 511-520.	5.7	29
42	Highly efficient radiosensitization of human glioblastoma and lung cancer cells by a G-quadruplex DNA binding compound. Scientific Reports, 2015, 5, 16255.	3.3	25
43	The recombination mediator RAD51D promotes geminiviral infection. Virology, 2016, 493, 113-127.	2.4	25
44	Analysis of the impact of the absence of RAD51 strand exchange activity in Arabidopsis meiosis. PLoS ONE, 2017, 12, e0183006.	2.5	24
45	Telomere-length regulation in inter-ecotype crosses of Arabidopsis. Plant Molecular Biology, 2006, 62, 859-866.	3.9	22
46	The TSM1 gene of Saccharomyces cerevisiae overlaps the MAT locus. Current Genetics, 1991, 20, 25-31.	1.7	21
47	DNA repair and recombination functions in Arabidopsis telomere maintenance. Chromosome Research, 2005, 13, 481-491.	2.2	21
48	Responses to Telomere Erosion in Plants. PLoS ONE, 2014, 9, e86220.	2.5	21
49	Recombination-Independent Mechanisms and Pairing of Homologous Chromosomes during Meiosis in Plants. Molecular Plant, 2014, 7, 492-501.	8.3	21
50	SPO11.2 is essential for programmed doubleâ€strand break formation during meiosis in bread wheat (Triticum aestivum L.). Plant Journal, 2020, 104, 30-43.	5.7	20
51	RAD51 and RTEL1 compensate telomere loss in the absence of telomerase. Nucleic Acids Research, 2018, 46, 2432-2445.	14.5	19
52	Role of the Polymerase Ïµ sub-unit DPB2 in DNA replication, cell cycle regulation and DNA damage response in Arabidopsis. Nucleic Acids Research, 2016, 44, gkw449.	14.5	18
53	Theatspo11-1 mutation rescues atxrcc3 meiotic chromosome fragmentation. Plant Molecular Biology, 2004, 56, 217-224.	3.9	17
54	LSD1-LIKE1-Mediated H3K4me2 Demethylation Is Required for Homologous Recombination Repair. Plant Physiology, 2019, 181, 499-509.	4.8	16

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55	The Structure-Specific Endonucleases MUS81 and SEND1 Are Essential for Telomere Stability in Arabidopsis. Plant Cell, 2016, 28, 74-86.	6.6	15
56	The Linker Histone GH1-HMGA1 Is Involved in Telomere Stability and DNA Damage Repair. Plant Physiology, 2018, 177, 311-327.	4.8	14
57	DNA polymerase epsilon is required for heterochromatin maintenance in Arabidopsis. Genome Biology, 2020, 21, 283.	8.8	14
58	Bread wheat TaSPO11â€1 exhibits evolutionarily conserved function in meiotic recombination across distant plant species. Plant Journal, 2020, 103, 2052-2068.	5.7	14
59	RAD54 is essential for RAD51-mediated repair of meiotic DSB in Arabidopsis. PLoS Genetics, 2021, 17, e1008919.	3.5	13
60	Physical Monitorin of Meiotic and Mitotic Recomination in Yeast. Progress in Molecular Biology and Translational Science, 1988, 35, 209-259.	1.9	9
61	Induced cellular resistance to ultraviolet light in Saccharomyces cerevisiae is not accompanied by increased repair of plasmid DNA. Current Genetics, 1987, 11, 321-326.	1.7	8
62	Recombination Proteins and Telomere Stability in Plants. Current Protein and Peptide Science, 2011, 12, 84-92.	1.4	8
63	Gene Site-Specific Insertion in Plants. Topics in Current Genetics, 2013, , 287-315.	0.7	8
64	Repair of UV-irradiated plasmid DNA in Saccharomyces cerevisiae Inability to complement mutational defects in excision repair by in vitro treatment with Micrococcus luteus UV endonuclease. Mutation Research - DNA Repair Reports, 1987, 183, 161-167.	1.8	6
65	The Role of Topoisomerase II in DNA Repair and Recombination in Arabidopsis thaliana. International Journal of Molecular Sciences, 2021, 22, 13115.	4.1	5
66	News from Arabidopsis on the Meiotic Roles of Blap75/Rmi1 and Top3Î±. PLoS Genetics, 2008, 4, e1000306.	3.5	2
67	Telomere stability and development of ctc1 mutants are rescued by inhibition of EJ recombination pathways in a telomerase-dependent manner. Nucleic Acids Research, 2014, 42, 11979-11991.	14.5	2
68	Inhibition of the alternative lengthening of telomeres pathway by subtelomeric sequences in Saccharomyces cerevisiae. DNA Repair, 2020, 96, 102996.	2.8	1