Charles I White

List of Publications by Year
in descending order

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	RAD54 is essential for RAD51-mediated repair of meiotic DSB in Arabidopsis. PLoS Genetics, 2021, 17, e1008919.	3.5	13
2	The Role of Topoisomerase II in DNA Repair and Recombination in Arabidopsis thaliana. International Journal of Molecular Sciences, 2021, 22, 13115.	4.1	5
3	DNA polymerase epsilon is required for heterochromatin maintenance in Arabidopsis. Genome Biology, 2020, 21, 283.	8.8	14
4	Inhibition of the alternative lengthening of telomeres pathway by subtelomeric sequences in Saccharomyces cerevisiae. DNA Repair, 2020, 96, 102996.	2.8	1
5	Bread wheat TaSPO11â€1 exhibits evolutionarily conserved function in meiotic recombination across distant plant species. Plant Journal, 2020, 103, 2052-2068.	5.7	14
6	SPO11.2 is essential for programmed doubleâ€strand break formation during meiosis in bread wheat (<i>Triticum aestivum</i> L.). Plant Journal, 2020, 104, 30-43.	5.7	20
7	LSD1-LIKE1-Mediated H3K4me2 Demethylation Is Required for Homologous Recombination Repair. Plant Physiology, 2019, 181, 499-509.	4.8	16
8	The Linker Histone GH1-HMGA1 Is Involved in Telomere Stability and DNA Damage Repair. Plant Physiology, 2018, 177, 311-327.	4.8	14
9	RAD51 and RTEL1 compensate telomere loss in the absence of telomerase. Nucleic Acids Research, 2018, 46, 2432-2445.	14.5	19
10	<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
11	<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 <i>Physcomitrella patens</i>. Plant Biotechnology Journal, 2017, 15, 122-131.	8.3	104
12	Analysis of the impact of the absence of RAD51 strand exchange activity in Arabidopsis meiosis. PLoS ONE, 2017, 12, e0183006.	2.5	24
13	The recombination mediator RAD51D promotes geminiviral infection. Virology, 2016, 493, 113-127.	2.4	25
14	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
15	The Structure-Specific Endonucleases MUS81 and SEND1 Are Essential for Telomere Stability in Arabidopsis. Plant Cell, 2016, 28, 74-86.	6.6	15
16	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
17	Centromere Associations in Meiotic Chromosome Pairing. Annual Review of Genetics, 2015, 49, 95-114.	7.6	39
18	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

#	Article	IF	Citations
19	Responses to Telomere Erosion in Plants. PLoS ONE, 2014, 9, e86220.	2.5	21
20	Recombination-Independent Mechanisms and Pairing of Homologous Chromosomes during Meiosis in Plants. Molecular Plant, 2014, 7, 492-501.	8.3	21
21	Multiple hostâ€cell recombination pathways act in <i><scp>A</scp>grobacterium</i>â€mediated transformation of plant cells. Plant Journal, 2014, 77, 511-520.	5.7	29
22	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
23	<i>Arabidopsis thaliana</i> 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
24	Gene targeting in maize by somatic ectopic recombination. Plant Biotechnology Journal, 2013, 11, 305-314.	8.3	40
25	Gene Site-Specific Insertion in Plants. Topics in Current Genetics, 2013, , 287-315.	0.7	8
26	Signaling of double strand breaks and deprotected telomeres in Arabidopsis. Frontiers in Plant Science, 2013, 4, 405.	3.6	37
27	Meiotic Recombination in Arabidopsis Is Catalysed by DMC1, with RAD51 Playing a Supporting Role. PLoS Genetics, 2013, 9, e1003787.	3.5	129
28	Roles of XRCC2, RAD51B and RAD51D in RAD51-Independent SSA Recombination. PLoS Genetics, 2013, 9, e1003971.	3.5	59
29	Effects of <scp><i>XRCC2</i></scp> and <scp><i>RAD51B</i></scp> mutations on somatic and meiotic recombination in <i><scp>A</scp>rabidopsis thaliana</i>. Plant Journal, 2013, 74, 959-970.	5.7	38
30	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
31	A Role for Small RNAs in DNA Double-Strand Break Repair. Cell, 2012, 149, 101-112.	28.9	537
32	Kinetic analysis of DNA double-strand break repair pathways in Arabidopsis. DNA Repair, 2011, 10, 611-619.	2.8	93
33	Recombination Proteins and Telomere Stability in Plants. Current Protein and Peptide Science, 2011, 12, 84-92.	1.4	8
34	<i>Arabidopsis</i>ATM and ATR Kinases Prevent Propagation of Genome Damage Caused by Telomere Dysfunction. Plant Cell, 2011, 23, 4254-4265.	6.6	42
35	Xrcc1-dependent and Ku-dependent DNA double-strand break repair kinetics in Arabidopsis plants. Plant Journal, 2010, 64, 280-290.	5.7	79
36	Distinct Roles of the ATR Kinase and the Mre11-Rad50-Nbs1 Complex in the Maintenance of Chromosomal Stability in <i>Arabidopsis</i>. Plant Cell, 2010, 22, 3020-3033.	6.6	119

#	Article	IF	Citations
37	ERCC1/XPF Protects Short Telomeres from Homologous Recombination in Arabidopsis thaliana. PLoS Genetics, 2009, 5, e1000380.	3.5	43
38	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
39	News from Arabidopsis on the Meiotic Roles of Blap75/Rmi1 and Top3Î±. PLoS Genetics, 2008, 4, e1000306.	3.5	2
40	Recent advances in understanding of the DNA double-strand break repair machinery of plants. DNA Repair, 2006, 5, 1-12.	2.8	91
41	Two roles for Rad50 in telomere maintenance. EMBO Journal, 2006, 25, 4577-4585.	7.8	43
42	Telomere-length regulation in inter-ecotype crosses of Arabidopsis. Plant Molecular Biology, 2006, 62, 859-866.	3.9	22
43	Differing requirements for the Arabidopsis Rad51 paralogs in meiosis and DNA repair. Plant Journal, 2005, 41, 533-545.	5.7	143
44	Towards targeted mutagenesis and gene replacement in plants. Trends in Biotechnology, 2005, 23, 567-569.	9.3	44
45	DNA repair and recombination functions in Arabidopsis telomere maintenance. Chromosome Research, 2005, 13, 481-491.	2.2	21
46	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
47	Roles of the AtErcc1 protein in recombination. Plant Journal, 2004, 39, 334-342.	5.7	49
48	The Arabidopsis homologue of Xrcc3 plays an essential role in meiosis. EMBO Journal, 2004, 23, 439-449.	7.8	128
49	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
50	Theatspo11-1 mutation rescues atxrcc3 meiotic chromosome fragmentation. Plant Molecular Biology, 2004, 56, 217-224.	3.9	17
51	Ku80 plays a role in nonâ€homologous recombination but is not required for Tâ€DNA integration in<i>Arabidopsis</i>. Plant Journal, 2003, 35, 557-565.	5.7	102
52	Telomerase Dependence of Telomere Lengthening in <i>ku80</i> Mutant Arabidopsis. Plant Cell, 2003, 15, 782-789.	6.6	70
53	The plant Rad50-Mre11 protein complex. FEBS Letters, 2002, 516, 164-166.	2.8	61
54	Role of the AtRad1p endonuclease in homologous recombination in plants. EMBO Reports, 2002, 3, 1049-1054.	4.5	56

#	Article	IF	Citations
55	Homologous recombinationin plantais stimulated in the absence of Rad50. EMBO Reports, 2001, 2, 287-291.	4.5	99
56	<i>RAD50</i>function is essential for telomere maintenance in<i>Arabidopsis</i>. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 1711-1716.	7.1	109
57	Disruption of the Arabidopsis RAD50 gene leads to plant sterility and MMS sensitivity. Plant Journal, 2001, 25, 31-41.	5.7	128
58	Positive-negative selection and T-DNA stability in Arabidopsis transformation. Plant Molecular Biology, 1999, 39, 83-93.	3.9	47
59	Isolation and characterisation of the RAD51 and DMC1 homologs from Arabidopsis thaliana. Molecular Genetics and Genomics, 1998, 257, 283-291.	2.4	206
60	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
61	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
62	The TSM1 gene of Saccharomyces cerevisiae overlaps the MAT locus. Current Genetics, 1991, 20, 25-31.	1.7	21
63	Intermediates of recombination during mating type switching in Saccharomyces cerevisiae.. EMBO Journal, 1990, 9, 663-673.	7.8	373
64	Physical monitoring of mating type switching in Saccharomyces cerevisiae.. Molecular and Cellular Biology, 1988, 8, 2342-2349.	2.3	114
65	Physical Monitorin of Meiotic and Mitotic Recomination in Yeast. Progress in Molecular Biology and Translational Science, 1988, 35, 209-259.	1.9	9
66	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
67	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
68	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