Holger Puchta

List of Publications by Year in Descending Order

172 papers	9,436 citations	57 h-index	92 g-index
183 ext. papers	10,867 ext. citations	8.6 avg, IF	7.02 L-index

#	Paper	IF	Citations
172	Updates on gene editing and its applications.. *Plant Physiology*, **2022**,	6.6	2
171	Using CRISPR-Kill for organ specific cell elimination by cleavage of tandem repeats.. *Nature Communications*, **2022**, 13, 1502	17.4	0
170	Von Genen zu Chromosomen: Pflanzenzüchtung mit CRISPR-CAS. *BioSpektrum*, **2021**, 27, 613-615	0.1	
169	ZYP1 is required for obligate cross-over formation and cross-over interference in. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	21
168	Novel CRISPR/Cas applications in plants: from prime editing to chromosome engineering. *Transgenic Research*, **2021**, 30, 529-549	3.3	23
167	Different functional roles of RTR complex factors in DNA repair and meiosis in Arabidopsis and tomato. *Plant Journal*, **2021**, 106, 965-977	6.9	3
166	Double strand break (DSB) repair pathways in plants and their application in genome engineering. *Burleigh Dodds Series in Agricultural Science*, **2021**, 27-62	2	2
165	CRISPR-Cas-mediated chromosome engineering for crop improvement and synthetic biology. *Nature Plants*, **2021**, 7, 566-573	11.5	11
164	CRISPR/Cas-mediated chromosome engineering: opening up a new avenue for plant breeding. *Journal of Experimental Botany*, **2021**, 72, 177-183	7	7
163	Sophisticated CRISPR/Cas tools for fine-tuning plant performance. *Journal of Plant Physiology*, **2021** , 257, 153332	3.6	8
162	Different DNA repair pathways are involved in single-strand break-induced genomic changes in plants. *Plant Cell*, **2021**, 33, 3454-3469	11.6	1
161	The repair of topoisomerase 2 cleavage complexes in Arabidopsis. *Plant Cell*, **2021**,	11.6	2
160	Efficient gene targeting in Nicotiana tabacum using CRISPR/SaCas9 and temperature tolerant LbCas12a. *Plant Biotechnology Journal*, **2021**, 19, 1314-1324	11.6	12
159	Non-homologous end joining as key to CRISPR/Cas-mediated plant chromosome engineering. *Plant Physiology*, **2021**,	6.6	1
158	Enhancing in planta gene targeting efficiencies in Arabidopsis using temperature-tolerant CRISPR/LbCas12a. *Plant Biotechnology Journal*, **2020**, 18, 2382-2384	11.6	19
157	Application of CRISPR/Cas-mediated base editing for directed protein evolution in plants. *Science China Life Sciences*, **2020**, 63, 613-616	8.5	4
156	Efficient Homologous Recombination-Mediated in Planta Gene Targeting by Egg-Cell-Specific Expression of Staphylococcus aureus Cas9 from Arabidopsis. *Springer Protocols*, **2020**, 25-34	0.3	

155	Analyzing Somatic DNA Repair in Arabidopsis Meiotic Mutants. *Methods in Molecular Biology*, **2020**, 2061, 359-366	1.4	2
154	CRISPR-Cas9-mediated induction of heritable chromosomal translocations in Arabidopsis. *Nature Plants*, **2020**, 6, 638-645	11.5	53
153	Engineering CRISPR/LbCas12a for highly efficient, temperature-tolerant plant gene editing. *Plant Biotechnology Journal*, **2020**, 18, 1118-1120	11.6	55
152	Repair of DNA-protein crosslinks in plants. *DNA Repair*, **2020**, 87, 102787	4.3	5
151	DNA repair meets climate change. *Nature Plants*, **2020**, 6, 1398-1399	11.5	
150	Using CRISPR/ttLbCas12a for in planta Gene Targeting in A. thaliana. *Current Protocols in Plant Biology*, **2020**, 5, e20117	2.8	3
149	Changing local recombination patterns in Arabidopsis by CRISPR/Cas mediated chromosome engineering. *Nature Communications*, **2020**, 11, 4418	17.4	34
148	Application of Aptamers Improves CRISPR-Based Live Imaging of Plant Telomeres. *Frontiers in Plant Science*, **2020**, 11, 1254	6.2	8
147	CRISPR/Cas brings plant biology and breeding into the fast lane. *Current Opinion in Biotechnology*, **2020**, 61, 7-14	11.4	64
146	From gene editing to genome engineering: restructuring plant chromosomes via CRISPR/Cas. *ABIOTECH*, **2020**, 1, 21-31	3.9	21
145	CRISPR Guide RNA Design Guidelines for Efficient Genome Editing. *Methods in Molecular Biology*, **2020**, 2166, 331-342	1.4	6
144	Live-Cell CRISPR Imaging in Plant Cells with a Telomere-Specific Guide RNA. *Methods in Molecular Biology*, **2020**, 2166, 343-356	1.4	2
143	DNA- and DNA-Protein-Crosslink Repair in Plants. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	10
142	CRISPR/Cas-mediated gene targeting in plants: finally a turn for the better for homologous recombination. *Plant Cell Reports*, **2019**, 38, 443-453	5.1	79
141	An Arabidopsis FANCJ helicase homologue is required for DNA crosslink repair and rDNA repeat stability. *PLoS Genetics*, **2019**, 15, e1008174	6	11
140	Plant breeding at the speed of light: the power of CRISPR/Cas to generate directed genetic diversity at multiple sites. *BMC Plant Biology*, **2019**, 19, 176	5.3	82
139	Efficient induction of heritable inversions in plant genomes using the CRISPR/Cas system. *Plant Journal*, **2019**, 98, 577-589	6.9	50
138	In planta gene targeting can be enhanced by the use of CRISPR/Cas12a. *Plant Journal*, **2019**, 100, 1083-1094	6.9	45

137	The Protease WSS1A, the Endonuclease MUS81, and the Phosphodiesterase TDP1 Are Involved in Independent Pathways of DNA-protein Crosslink Repair in Plants. *Plant Cell*, **2019**, 31, 775-790	11.6	18
136	DNA Helicases as Safekeepers of Genome Stability in Plants. *Genes*, **2019**, 10,	4.2	4
135	DNA Break Repair in Plants and Its Application for Genome Engineering. *Methods in Molecular Biology*, **2019**, 1864, 237-266	1.4	27
134	The CRISPR/Cas revolution reaches the RNA world: Cas13, a new Swiss Army knife for plant biologists. *Plant Journal*, **2018**, 94, 767-775	6.9	61
133	The RecQ-like helicase HRQ1 is involved in DNA crosslink repair in Arabidopsis in a common pathway with the Fanconi anemia-associated nuclease FAN1 and the postreplicative repair ATPase RAD5A. *New Phytologist*, **2018**, 218, 1478-1490	9.8	10
132	Das CRISPR/Cas-System. *Biologie in Unserer Zeit*, **2018**, 48, 100-105	0.1	1
131	Efficient in planta gene targeting in Arabidopsis using egg cell-specific expression of the Cas9 nuclease of Staphylococcus aureus. *Plant Journal*, **2018**, 94, 735-746	6.9	82
130	Broadening the applicability of CRISPR/Cas9 in plants. *Science China Life Sciences*, **2018**, 61, 126-127	8.5	5
129	Transforming plant biology and breeding with CRISPR/Cas9, Cas12 and Cas13. *FEBS Letters*, **2018**, 592, 1954-1967	3.8	50
128	Application of CRISPR/Cas to Understand Cis- and Trans-Regulatory Elements in Plants. *Methods in Molecular Biology*, **2018**, 1830, 23-40	1.4	15
127	The CRISPR/Cas revolution continues: From efficient gene editing for crop breeding to plant synthetic biology. *Journal of Integrative Plant Biology*, **2018**, 60, 1127-1153	8.3	66
126	The topoisomerase 3α zinc-finger domain T1 of Arabidopsis thaliana is required for targeting the enzyme activity to Holliday junction-like DNA repair intermediates. *PLoS Genetics*, **2018**, 14, e1007674	6	13
125	Knocking out consumer concerns and regulators rules: efficient use of CRISPR/Cas ribonucleoprotein complexes for genome editing in cereals. *Genome Biology*, **2017**, 18, 43	18.3	35
124	Live-cell CRISPR imaging in plants reveals dynamic telomere movements. *Plant Journal*, **2017**, 91, 565-573	6.9	81
123	CRISPR/Cas-Mediated In Planta Gene Targeting. *Methods in Molecular Biology*, **2017**, 1610, 3-11	1.4	5
122	Applying CRISPR/Cas for genome engineering in plants: the best is yet to come. *Current Opinion in Plant Biology*, **2017**, 36, 1-8	9.9	201
121	The DNA translocase RAD5A acts independently of the other main DNA repair pathways, and requires both its ATPase and RING domain for activity in Arabidopsis thaliana. *Plant Journal*, **2017**, 91, 725-740	6.9	13
120	Genome Engineering mit CRISPR/Cas – Revolution in der Pflanzenzüchtung. *BioSpektrum*, **2017**, 23, 159-161	0.1	3

119	Use of the Cas9 Orthologs from Streptococcus thermophilus and Staphylococcus aureus for Non-Homologous End-Joining Mediated Site-Specific Mutagenesis in Arabidopsis thaliana. *Methods in Molecular Biology*, **2017**, 1669, 365-376	1.4	6
118	Endogenous sequence patterns predispose the repair modes of CRISPR/Cas9-induced DNA double-stranded breaks in Arabidopsis thaliana. *Plant Journal*, **2017**, 92, 57-67	6.9	24
117	Towards CRISPR/Cas crops - bringing together genomics and genome editing. *New Phytologist*, **2017**, 216, 682-698	9.8	165
116	Development of Bag-1L as a therapeutic target in androgen receptor-dependent prostate cancer. *ELife*, **2017**, 6,	8.9	23
115	Breaking DNA in plants: how I almost missed my personal breakthrough. *Plant Biotechnology Journal*, **2016**, 14, 437-40	11.6	4
114	AtRAD5A is a DNA translocase harboring a HIRAN domain which confers binding to branched DNA structures and is required for DNA repair in vivo. *Plant Journal*, **2016**, 88, 521-530	6.9	11
113	CRISPR/Cas-Mediated Site-Specific Mutagenesis in Arabidopsis thaliana Using Cas9 Nucleases and Paired Nickases. *Methods in Molecular Biology*, **2016**, 1469, 111-22	1.4	17
112	Repair of adjacent single-strand breaks is often accompanied by the formation of tandem sequence duplications in plant genomes. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 7266-71	11.5	45
111	Revolutionizing plant biology: multiple ways of genome engineering by CRISPR/Cas. *Plant Methods*, **2016**, 12, 8	5.8	103
110	The RTR Complex Partner RMI2 and the DNA Helicase RTEL1 Are Both Independently Involved in Preserving the Stability of 45S rDNA Repeats in Arabidopsis thaliana. *PLoS Genetics*, **2016**, 12, e1006394	6	22
109	Using CRISPR/Cas in three dimensions: towards synthetic plant genomes, transcriptomes and epigenomes. *Plant Journal*, **2016**, 87, 5-15	6.9	71
108	Homology-based double-strand break-induced genome engineering in plants. *Plant Cell Reports*, **2016**, 35, 1429-38	5.1	70
107	The Translesion Polymerase Has Roles Dependent on and Independent of the Nuclease MUS81 and the Helicase RECQ4A in DNA Damage Repair in Arabidopsis. *Plant Physiology*, **2015**, 169, 2718-29	6.6	13
106	Double-Strand Break Repair and Its Application to Genome Engineering in Plants **2015**, 1-20		4
105	Highly efficient heritable plant genome engineering using Cas9 orthologues from Streptococcus thermophilus and Staphylococcus aureus. *Plant Journal*, **2015**, 84, 1295-305	6.9	177
104	Involvement of the Cohesin Cofactor PDS5 (SPO76) During Meiosis and DNA Repair in Arabidopsis thaliana. *Frontiers in Plant Science*, **2015**, 6, 1034	6.2	24
103	Advances in New Technology for Targeted Modification of Plant Genomes **2015**,		5
102	The nuclease FAN1 is involved in DNA crosslink repair in Arabidopsis thaliana independently of the nuclease MUS81. *Nucleic Acids Research*, **2015**, 43, 3653-66	20.1	13

101	MHF1 plays Fanconi anaemia complementation group M protein (FANCM)-dependent and FANCM-independent roles in DNA repair and homologous recombination in plants. *Plant Journal*, **2014**, 78, 822-33	6.9	19
100	Both CRISPR/Cas-based nucleases and nickases can be used efficiently for genome engineering in Arabidopsis thaliana. *Plant Journal*, **2014**, 79, 348-59	6.9	475
99	Synthetic nucleases for genome engineering in plants: prospects for a bright future. *Plant Journal*, **2014**, 78, 727-41	6.9	181
98	The CRISPR/Cas system can be used as nuclease for in planta gene targeting and as paired nickases for directed mutagenesis in Arabidopsis resulting in heritable progeny. *Plant Journal*, **2014**, 80, 1139-50	6.9	258
97	DNA recombination in somatic plant cells: mechanisms and evolutionary consequences. *Chromosome Research*, **2014**, 22, 191-201	4.4	72
96	DNA Repair and Recombination in Plants **2014**, 51-93		1
95	The Arabidopsis thaliana homolog of the helicase RTEL1 plays multiple roles in preserving genome stability. *Plant Cell*, **2014**, 26, 4889-902	11.6	33
94	Defining the roles of the N-terminal region and the helicase activity of RECQ4A in DNA repair and homologous recombination in Arabidopsis. *Nucleic Acids Research*, **2014**, 42, 1684-97	20.1	30
93	The RTR complex as caretaker of genome stability and its unique meiotic function in plants. *Frontiers in Plant Science*, **2014**, 5, 33	6.2	18
92	Nucleus and Genome: DNA Recombination and Repair **2014**, 1-37		1
91	Different functions for the domains of the Arabidopsis thaliana RMI1 protein in DNA cross-link repair, somatic and meiotic recombination. *Nucleic Acids Research*, **2013**, 41, 9349-60	20.1	21
90	Fork sensing and strand switching control antagonistic activities of RecQ helicases. *Nature Communications*, **2013**, 4, 2024	17.4	45
89	Gene targeting in plants: 25 years later. *International Journal of Developmental Biology*, **2013**, 57, 629-37	1.9	126
88	The Fanconi anemia ortholog FANCM ensures ordered homologous recombination in both somatic and meiotic cells in Arabidopsis. *Plant Cell*, **2012**, 24, 1448-64	11.6	77
87	Metal-mediated DNA assembly using the ethynyl linked terpyridine ligand. *Organic and Biomolecular Chemistry*, **2012**, 10, 46-8	3.9	13
86	The requirement for recombination factors differs considerably between different pathways of homologous double-strand break repair in somatic plant cells. *Plant Journal*, **2012**, 72, 781-90	6.9	53
85	Gene regulation in response to DNA damage. *Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms*, **2012**, 1819, 154-65	6	50
84	In planta gene targeting. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 7535-40	11.5	155

83	BRCA2 is a mediator of RAD51- and DMC1-facilitated homologous recombination in Arabidopsis thaliana. *New Phytologist*, **2012**, 193, 364-75	9.8	45
82	In planta somatic homologous recombination assay revisited: a successful and versatile, but delicate tool. *Plant Cell*, **2012**, 24, 4324-31	11.6	31
81	Homologs of breast cancer genes in plants. *Frontiers in Plant Science*, **2011**, 2, 19	6.2	33
80	The Rad50 genes of diploid and polyploid wheat species. Analysis of homologue and homoeologue expression and interactions with Mre11. *Theoretical and Applied Genetics*, **2011**, 122, 251-62	6	11
79	The role of DNA helicases and their interaction partners in genome stability and meiotic recombination in plants. *Journal of Experimental Botany*, **2011**, 62, 1565-79	7	56
78	BRCC36A is epistatic to BRCA1 in DNA crosslink repair and homologous recombination in Arabidopsis thaliana. *Nucleic Acids Research*, **2011**, 39, 146-54	20.1	170
77	Breaking news: plants mutate right on target. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 11657-8	11.5	16
76	RAD5A, RECQ4A, and MUS81 have specific functions in homologous recombination and define different pathways of DNA repair in Arabidopsis thaliana. *Plant Cell*, **2010**, 22, 3318-30	11.6	77
75	Purification and characterization of RecQ helicases of plants. *Methods in Molecular Biology*, **2010**, 587, 195-209	1.4	10
74	A SRS2 homolog from Arabidopsis thaliana disrupts recombinogenic DNA intermediates and facilitates single strand annealing. *Nucleic Acids Research*, **2009**, 37, 7163-76	20.1	19
73	Two distinct MUS81-EME1 complexes from Arabidopsis process Holliday junctions. *Plant Physiology*, **2009**, 150, 1062-71	6.6	36
72	Biochemical characterization of AtRECQ3 reveals significant differences relative to other RecQ helicases. *Plant Physiology*, **2009**, 151, 1658-66	6.6	17
71	The STRUCTURAL MAINTENANCE OF CHROMOSOMES 5/6 complex promotes sister chromatid alignment and homologous recombination after DNA damage in Arabidopsis thaliana. *Plant Cell*, **2009**, 21, 2688-99	11.6	77
70	Effects of nanosecond pulsed electric field exposure on arabidopsis thaliana. *IEEE Transactions on Dielectrics and Electrical Insulation*, **2009**, 16, 1322-1328	2.3	67
69	AtRECQ2, a RecQ helicase homologue from Arabidopsis thaliana, is able to disrupt various recombinogenic DNA structures in vitro. *Plant Journal*, **2008**, 55, 397-405	6.9	29
68	Topoisomerase 3alpha and RMI1 suppress somatic crossovers and are essential for resolution of meiotic recombination intermediates in Arabidopsis thaliana. *PLoS Genetics*, **2008**, 4, e1000285	6	70
67	A homolog of ScRAD5 is involved in DNA repair and homologous recombination in Arabidopsis. *Plant Physiology*, **2008**, 146, 1786-96	6.6	41
66	AtRECQ2, a RecQ helicase homologue from Arabidopsis thaliana, is able to disrupt various recombinogenic DNA structures in vitro. *Plant Journal*, **2008**, 55, 397-405	6.9	15

65	The catalytically active tyrosine residues of both SPO11-1 and SPO11-2 are required for meiotic double-strand break induction in Arabidopsis. *Plant Cell*, **2007**, 19, 3090-9	11.6	95
64	A homologue of the breast cancer-associated gene BARD1 is involved in DNA repair in plants. *EMBO Journal*, **2007**, 26, 2227-2227	13	78
63	Two unlinked double-strand breaks can induce reciprocal exchanges in plant genomes via homologous recombination and nonhomologous end joining. *Genetics*, **2007**, 175, 21-9	4	53
62	Two closely related RecQ helicases have antagonistic roles in homologous recombination and DNA repair in Arabidopsis thaliana. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 18836-41	11.5	115
61	The role of AtMUS81 in DNA repair and its genetic interaction with the helicase AtRecQ4A. *Nucleic Acids Research*, **2006**, 34, 4438-48	20.1	83
60	The RecQ gene family in plants. *Journal of Plant Physiology*, **2006**, 163, 287-96	3.6	59
59	A homologue of the breast cancer-associated gene BARD1 is involved in DNA repair in plants. *EMBO Journal*, **2006**, 25, 4326-37	13	38
58	The repair of double-strand breaks in plants: mechanisms and consequences for genome evolution. *Journal of Experimental Botany*, **2005**, 56, 1-14	7	360
57	Green light for gene targeting in plants. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 11961-2	11.5	15
56	Intrachromosomal homologous recombination in Arabidopsis thaliana. *Methods in Molecular Biology* , **2004**, 262, 25-34	1.4	10
55	The Rad17 homologue of Arabidopsis is involved in the regulation of DNA damage repair and homologous recombination. *Plant Journal*, **2004**, 38, 954-68	6.9	67
54	What Comparative Genomics Tells Us About the Evolution of Eukaryotic Genes Involved in Recombination. *Current Genomics*, **2004**, 5, 109-121	2.6	8
53	Marker-free transgenic plants. *Plant Cell, Tissue and Organ Culture*, **2003**, 74, 123-134	2.7	62
52	Differences in the processing of DNA ends in Arabidopsis thaliana and tobacco: possible implications for genome evolution. *Plant Molecular Biology*, **2003**, 51, 523-31	4.6	36
51	Different pathways of homologous recombination are used for the repair of double-strand breaks within tandemly arranged sequences in the plant genome. *Plant Journal*, **2003**, 35, 604-12	6.9	83
50	The transcriptional response of Arabidopsis to genotoxic stress - a high-density colony array study (HDCA). *Plant Journal*, **2003**, 35, 771-86	6.9	84
49	Towards the ideal GMP: homologous recombination and marker gene excision. *Journal of Plant Physiology*, **2003**, 160, 743-54	3.6	28
48	Some like it sticky: targeting of the rice gene Waxy. *Trends in Plant Science*, **2003**, 8, 51-3	13.1	43

47	Biochemical characterization of an exonuclease from Arabidopsis thaliana reveals similarities to the DNA exonuclease of the human Werner syndrome protein. *Journal of Biological Chemistry*, **2003**, 278, 44128-38	5.4	21
46	An archaebacterial topoisomerase homolog not present in other eukaryotes is indispensable for cell proliferation of plants. *Current Biology*, **2002**, 12, 1787-91	6.3	92
45	The role of double-strand break-induced allelic homologous recombination in somatic plant cells. *Plant Journal*, **2002**, 32, 277-84	6.9	35
44	Gene replacement by homologous recombination in plants. *Plant Molecular Biology*, **2002**, 48, 173-182	4.6	77
43	Intron gain and loss in the evolution of the conserved eukaryotic recombination machinery. *Nucleic Acids Research*, **2002**, 30, 5175-81	20.1	34
42	Efficient repair of genomic double-strand breaks by homologous recombination between directly repeated sequences in the plant genome. *Plant Cell*, **2002**, 14, 1121-31	11.6	132
41	Gene replacement by homologous recombination in plants **2002**, 173-182		5
40	Gene replacement by homologous recombination in plants. *Plant Molecular Biology*, **2002**, 48, 173-82	4.6	37
39	Elimination of selection markers from transgenic plants. *Current Opinion in Biotechnology*, **2001**, 12, 139-43	11.4	119
38	Molecular characterization of homologues of both subunits A (SPO11) and B of the archaebacterial topoisomerase 6 in plants. *Gene*, **2001**, 271, 81-6	3.8	86
37	Elevated UV-B radiation reduces genome stability in plants. *Nature*, **2000**, 406, 98-101	50.4	313
36	Species-specific double-strand break repair and genome evolution in plants. *EMBO Journal*, **2000**, 19, 5562-6	13	157
35	Molecular characterisation of RecQ homologues in Arabidopsis thaliana. *Nucleic Acids Research*, **2000**, 28, 4275-82	20.1	64
34	Molecular characterisation of two paralogous SPO11 homologues in Arabidopsis thaliana. *Nucleic Acids Research*, **2000**, 28, 1548-54	20.1	97
33	RecA stimulates sister chromatid exchange and the fidelity of double-strand break repair, but not gene targeting, in plants transformed by Agrobacterium. *Proceedings of the National Academy of Sciences of the United States of America*, **2000**, 97, 3358-63	11.5	50
32	Use of I-Sce I to induce DNA double-strand breaks in Nicotiana. *Methods in Molecular Biology*, **1999**, 113, 447-51	1.4	11
31	Gene therapy in plants. *Proceedings of the National Academy of Sciences of the United States of America*, **1999**, 96, 8321-3	11.5	43
30	Chromosomal location and genetic mapping of the mismatch repair gene homologs MSH2, MSH3, and MSH6 in rye and wheat. *Genome*, **1999**, 42, 1255-7	2.4	12

29	Double-strand break-induced recombination between ectopic homologous sequences in somatic plant cells. *Genetics*, **1999**, 152, 1173-81	4	77
28	Use of I-Sce I to Induce DNA Double-Strand Breaks in Nicotiana **1999**, 447-451		5
27	Capture of genomic and T-DNA sequences during double-strand break repair in somatic plant cells. *EMBO Journal*, **1998**, 17, 6086-95	13	283
26	Repair of genomic double-strand breaks in somatic plant cells by one-sided invasion of homologous sequences. *Plant Journal*, **1998**, 13, 331-339	6.9	100
25	From centiMorgans to base pairs: homologous recombination in plants. *Trends in Plant Science*, **1996**, 1, 340-348	13.1	122
24	Two different but related mechanisms are used in plants for the repair of genomic double-strand breaks by homologous recombination. *Proceedings of the National Academy of Sciences of the United States of America*, **1996**, 93, 5055-60	11.5	317
23	Induction of intrachromosomal homologous recombination in whole plants. *Plant Journal*, **1995**, 7, 203-210	6.9	102
22	Somatic intrachromosomal homologous recombination events in populations of plant siblings. *Plant Molecular Biology*, **1995**, 28, 281-92	4.6	68
21	Efficient Agrobacterium-mediated transformation of Arabidopsis thaliana using the bar gene as selectable marker. *Plant Cell Reports*, **1995**, 14, 450-4	5.1	25
20	Intrachromosomal homologous recombination in whole plants.. *EMBO Journal*, **1994**, 13, 484-489	13	122
19	Homologous recombination in plants. *Experientia*, **1994**, 50, 277-284		22
18	Agrobacterium tumefaciens transfers single-stranded transferred DNA (T-DNA) into the plant cell nucleus. *Proceedings of the National Academy of Sciences of the United States of America*, **1994**, 91, 8000-4	11.5	119
17	Substrate Specificity of Plant Recombinases Determined in Extrachromosomal Recombination Systems **1994**, 123-155		8
16	Homologous recombination in plant cells is enhanced by in vivo induction of double strand breaks into DNA by a site-specific endonuclease. *Nucleic Acids Research*, **1993**, 21, 5034-40	20.1	227
15	Extrachromosomal homologous DNA recombination in plant cells is fast and is not affected by CpG methylation. *Molecular and Cellular Biology*, **1992**, 12, 3372-9	4.8	30
14	The mechanism of extrachromosomal homologous DNA recombination in plant cells. *Molecular Genetics and Genomics*, **1991**, 230, 1-7		32
13	Primary and secondary structure of citrus viroid IV (CVd IV), a new chimeric viroid present in dwarfed grapefruit in Israel. *Nucleic Acids Research*, **1991**, 19, 6640	20.1	38
12	A transient assay in plant cells reveals a positive correlation between extrachromosomal recombination rates and length of homologous overlap. *Nucleic Acids Research*, **1991**, 19, 2693-700	20.1	53

11	Analysis of unknown DNA sequences by polymerase chain reaction (PCR) using a single specific primer and a standardized adaptor. *Journal of Virological Methods*, **1991**, 32, 115-9	2.6	11
10	A new strain of potato spindle tuber viroid (PSTVd-N) exhibits major sequence differences as compared to all other PSTVd strains sequenced so far. *Plant Molecular Biology*, **1990**, 15, 509-11	4.6	42
9	Nucleotide sequence and secondary structure of apple scar skin viroid (ASSVd) from China. *Plant Molecular Biology*, **1990**, 14, 1065-7	4.6	18
8	Nucleotide sequence of a hop stunt viroid (HSVd) isolate from the German grapevine rootstock 5BB as determined by PCR-mediated sequence analysis. *Nucleic Acids Research*, **1989**, 17, 5841	20.1	10
7	Nucleotide sequence of a hop stunt viroid (HSVd) isolate from grapefruit in Israel. *Nucleic Acids Research*, **1989**, 17, 1247	20.1	13
6	Sequence analysis of minute amounts of viroid RNA using the polymerase chain reaction (PCR). Rapid communication. *Archives of Virology*, **1989**, 106, 335-40	2.6	22
5	An improved procedure for the rapid one-step-cloning of full-length viroid cDNA. *Archives of Virology*, **1988**, 101, 137-40	2.6	7
4	Nucleotide sequence of the Korean strain of hop stunt viroid (HSV). *Nucleic Acids Research*, **1988**, 16, 8708	20.1	8
3	The molecular structure of hop latent viroid (HLV), a new viroid occurring worldwide in hops. *Nucleic Acids Research*, **1988**, 16, 4197-216	20.1	67
2	Nucleotide sequence of a hop stunt viroid isolate from the German grapevine cultivar ‘Riesling’ *Nucleic Acids Research*, **1988**, 16, 2730	20.1	17
1	Molecular and biological properties of a cloned and infectious new sequence variant of cucumber pale fruit viroid (CPFV). *Nucleic Acids Research*, **1988**, 16, 8171	20.1	10