Marcel Tijsterman

List of Publications by Year
in descending order

77 papers	5,441 citations	94433 37 h-index	98798 67 g-index
81 all docs	81 docs citations	81 times ranked	5846 citing authors

#	Article	IF	Citations
1	Gene targeting in polymerase thetaâ€deficient <i>Arabidopsis thaliana</i>. Plant Journal, 2022, 109, 112-125.	5.7	13
2	CRISPR-Cas9 induces large structural variants at on-target and off-target sites in vivo that segregate across generations. Nature Communications, 2022, 13, 627.	12.8	65
3	Distinct mechanisms for genomic attachment of the 5â€² and 3â€² ends of Agrobacterium T-DNA in plants. Nature Plants, 2022, 8, 526-534.	9.3	17
4	THO complex deficiency impairs DNA double-strand break repair via the RNA surveillance kinase SMG-1. Nucleic Acids Research, 2022, 50, 6235-6250.	14.5	5
5	Preservation of lagging strand integrity at sites of stalled replication by Pol Î±-primase and 9-1-1 complex. Science Advances, 2021, 7, .	10.3	16
6	PolÎ¸ inhibitors elicit BRCA-gene synthetic lethality and target PARP inhibitor resistance. Nature Communications, 2021, 12, 3636.	12.8	159
7	Small tandem DNA duplications result from CST-guided Pol Î±-primase action at DNA break termini. Nature Communications, 2021, 12, 4843.	12.8	27
8	Helicase Q promotes homology-driven DNA double-strand break repair and prevents tandem duplications. Nature Communications, 2021, 12, 7126.	12.8	16
9	BRCA1-associated structural variations are a consequence of polymerase theta-mediated end-joining. Nature Communications, 2020, 11, 3615.	12.8	39
10	Low dose ionizing radiation strongly stimulates insertional mutagenesis in a Î³H2AX dependent manner. PLoS Genetics, 2020, 16, e1008550.	3.5	7
11	Translesion synthesis polymerases are dispensable for C. elegans reproduction but suppress genome scarring by polymerase theta-mediated end joining. PLoS Genetics, 2020, 16, e1008759.	3.5	12
12	Title is missing!. , 2020, 16, e1008550.		0
13	Title is missing!. , 2020, 16, e1008550.		0
14	Title is missing!. , 2020, 16, e1008550.		0
15	Title is missing!. , 2020, 16, e1008550.		0
16	Title is missing!. , 2020, 16, e1008759.		0
17	Title is missing!. , 2020, 16, e1008759.		0
18	Title is missing!. , 2020, 16, e1008759.		0

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19	Title is missing!. , 2020, 16, e1008759.		0
20	Templated Insertions: A Smoking Gun for Polymerase Theta-Mediated End Joining. Trends in Genetics, 2019, 35, 632-644.	6.7	103
21	Combined loss of three DNA damage response pathways renders C. elegans intolerant to light. DNA Repair, 2017, 54, 55-62.	2.8	10
22	Mutational signatures of nonâ€homologous and polymerase thetaâ€mediated endâ€joining in embryonic stem cells. EMBO Journal, 2017, 36, 3634-3649.	7.8	109
23	Inactivation of Pol Î¸ and C-NHEJ eliminates off-target integration of exogenous DNA. Nature Communications, 2017, 8, 66.	12.8	99
24	Histone H3K9 methylation is dispensable for Caenorhabditis elegans development but suppresses RNA:DNA hybrid-associated repeat instability. Nature Genetics, 2016, 48, 1385-1395.	21.4	173
25	T-DNA integration in plants results from polymerase-Î¸-mediated DNA repair. Nature Plants, 2016, 2, 16164.	9.3	118
26	Genomic Scars Generated by Polymerase Theta Reveal the Versatile Mechanism of Alternative End-Joining. PLoS Genetics, 2016, 12, e1006368.	3.5	53
27	Mutagenic consequences of a single G-quadruplex demonstrate mitotic inheritance of DNA replication fork barriers. Nature Communications, 2015, 6, 8909.	12.8	102
28	Polymerase Î˜ is a key driver of genome evolution and of CRISPR/Cas9-mediated mutagenesis. Nature Communications, 2015, 6, 7394.	12.8	87
29	A Polymerase Theta-dependent repair pathway suppresses extensive genomic instability at endogenous G4 DNA sites. Nature Communications, 2014, 5, 3216.	12.8	179
30	<scp>FANCJ</scp> promotes <scp>DNA</scp> synthesis through Gâ€quadruplex structures. EMBO Journal, 2014, 33, 2521-2533.	7.8	127
31	Mosaic analysis and tumor induction in zebrafish by microsatellite instability-mediated stochastic gene expression. DMM Disease Models and Mechanisms, 2014, 7, 929-36.	2.4	6
32	Polymerase theta-mediated end joining of replication-associated DNA breaks in <i>C. elegans</i>. Genome Research, 2014, 24, 954-962.	5.5	137
33	The repair of G-quadruplex-induced DNA damage. Experimental Cell Research, 2014, 329, 178-183.	2.6	31
34	Genomes and G-Quadruplexes: For Better or for Worse. Journal of Molecular Biology, 2013, 425, 4782-4789.	4.2	109
35	A Role for the Malignant Brain Tumour (MBT) Domain Protein LIN-61 in DNA Double-Strand Break Repair by Homologous Recombination. PLoS Genetics, 2013, 9, e1003339.	3.5	18
36	COM-1 Promotes Homologous Recombination during Caenorhabditis elegans Meiosis by Antagonizing Ku-Mediated Non-Homologous End Joining. PLoS Genetics, 2013, 9, e1003276.	3.5	77

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37	Microhomology-Mediated Intron Loss during Metazoan Evolution. Genome Biology and Evolution, 2013, 5, 1212-1219.	2.5	15
38	A versatile microsatellite instability reporter system in human cells. Nucleic Acids Research, 2013, 41, e158-e158.	14.5	11
39	CRISPR/Cas9-Targeted Mutagenesis in <i>Caenorhabditis elegans</i>. Genetics, 2013, 195, 1187-1191.	2.9	153
40	A Broad Requirement for TLS Polymerases Î· and Îº, and Interacting Sumoylation and Nuclear Pore Proteins, in Lesion Bypass during C. elegans Embryogenesis. PLoS Genetics, 2012, 8, e1002800.	3.5	45
41	DNA double-strand break repair in Caenorhabditis elegans. Chromosoma, 2011, 120, 1-21.	2.2	59
42	A Robust Network of Double-Strand Break Repair Pathways Governs Genome Integrity during C. elegans Development. Current Biology, 2009, 19, 1384-1388.	3.9	43
43	Isolation of deletion alleles by G4 DNA-induced mutagenesis. Nature Methods, 2009, 6, 655-657.	19.0	16
44	The TWIST1 oncogene is a direct target of hypoxia-inducible factor-2Î±. Oncogene, 2008, 27, 1501-1510.	5.9	119
45	Mutagenic Capacity of Endogenous G4 DNA Underlies Genome Instability in FANCJ-Defective C. elegans. Current Biology, 2008, 18, 900-905.	3.9	186
46	A Caenorhabditis elegans Wild Type Defies the Temperatureâ€“Size Rule Owing to a Single Nucleotide Polymorphism in tra-3. PLoS Genetics, 2007, 3, e34.	3.5	104
47	RAP-1 and the RAL-1/exocyst pathway coordinate hypodermal cell organization in Caenorhabditis elegans. EMBO Journal, 2007, 26, 5083-5092.	7.8	49
48	Long-term gene silencing by RNAi. Nature, 2006, 442, 882-882.	27.8	261
49	Identification of Conserved Pathways of DNA-Damage Response and Radiation Protection by Genome-Wide RNAi. Current Biology, 2006, 16, 1344-1350.	3.9	88
50	Mapping Determinants of Gene Expression Plasticity by Genetical Genomics in C. elegans. PLoS Genetics, 2006, 2, e222.	3.5	269
51	Cosuppression inC. elegans. Cold Spring Harbor Protocols, 2006, 2006, pdb.prot4318.	0.3	2
52	Detection of si/miRNA inC. elegansby Northern Blot. Cold Spring Harbor Protocols, 2006, 2006, pdb.prot4320.	0.3	1
53	Isolation of RNA fromC. elegans. Cold Spring Harbor Protocols, 2006, 2006, pdb.prot4321.	0.3	4
54	Detection of siRNA inC. elegansUsing RNase Protection. Cold Spring Harbor Protocols, 2006, 2006, pdb.prot4319.	0.3	0

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55	Introduction of Double-Stranded RNA inC. elegansby Feeding. Cold Spring Harbor Protocols, 2006, 2006, pdb.prot4317.	0.3	1
56	Introduction of Double-Stranded RNA inC. elegansby Soaking. Cold Spring Harbor Protocols, 2006, 2006, pdb.prot4316.	0.3	0
57	Introduction of Double-Stranded RNA inC. elegansby Injection. Cold Spring Harbor Protocols, 2006, 2006, pdb.prot4315.	0.3	1
58	Gene interactions in the DNA damage-response pathway identified by genome-wide RNA-interference analysis of synthetic lethality. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 12992-12996.	7.1	55
59	Genomic instability and cancer: scanning the Caenorhabditis elegans genome for tumor suppressors. Oncogene, 2004, 23, 8366-8375.	5.9	15
60	Genes Required for Systemic RNA Interference in Caenorhabditis elegans. Current Biology, 2004, 14, 111-116.	3.9	154
61	Dicers at RISC. Cell, 2004, 117, 1-3.	28.9	304
62	Identification of genes that protect the C. elegans genome against mutations by genome-wide RNAi. Genes and Development, 2003, 17, 443-448.	5.9	196
63	RNA Helicase MUT-14-Dependent Gene Silencing Triggered in C. elegans by Short Antisense RNAs. Science, 2002, 295, 694-697.	12.6	141
64	The Genetics of RNA Silencing. Annual Review of Genetics, 2002, 36, 489-519.	7.6	283
65	The Mechanism of RNA Interference and the Transposon Silencing inCaenorhabditis elegans. Scientific World Journal, The, 2002, 2, 3-4.	2.1	0
66	Loss of the Putative RNA-Directed RNA Polymerase RRF-3 Makes C. elegans Hypersensitive to RNAi. Current Biology, 2002, 12, 1317-1319.	3.9	529
67	PPW-1, a PAZ/PIWI Protein Required for Efficient Germline RNAi, Is Defective in a Natural Isolate of C. elegans. Current Biology, 2002, 12, 1535-1540.	3.9	154
68	Frequent Germline Mutations and Somatic Repeat Instability in DNA Mismatch-Repair-Deficient Caenorhabditis elegans. Genetics, 2002, 161, 651-660.	2.9	49
69	Removal of cyclobutane pyrimidine dimers by the UV damage repair and nucleotide excision repair pathways of Schizosaccharomyces pombe at nucleotide resolution. Nucleic Acids Research, 1999, 27, 2868-2874.	14.5	8
70	Rad26, the Yeast Homolog of the Cockayne Syndrome B Gene Product, Counteracts Inhibition of DNA Repair Due to RNA Polymerase II Transcription. Journal of Biological Chemistry, 1999, 274, 1199-1202.	3.4	17
71	RNA Polymerase II Transcription Suppresses Nucleosomal Modulation of UV-Induced (6-4) Photoproduct and Cyclobutane Pyrimidine Dimer Repair in Yeast. Molecular and Cellular Biology, 1999, 19, 934-940.	2.3	59
72	Enzymatic Detection of Ultraviolet-Induced Pyrimidine (6-4) Pyrimidone Photoproducts at Nucleotide Resolution inSaccharomyces cerevisiae. Analytical Biochemistry, 1998, 260, 110-113.	2.4	4

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73	Defective Kin28, a subunit of yeast TFIIH, impairs transcription-coupled but not global genome nucleotide excision repair. Mutation Research DNA Repair, 1998, 409, 181-188.	3.7	10
74	Transcription-Coupled and Global Genome Nucleotide Excision Repair. Nucleic Acids and Molecular Biology, 1998, , 157-172.	0.2	3
75	Saccharomyces cerevisiae mms19 mutants are deficient in transcription- coupled and global nucleotide excision repair. Nucleic Acids Research, 1997, 25, 3974-3979.	14.5	23
76	Transitions in the coupling of transcription and nucleotide excision repair within RNA polymerase II-transcribed genes of Saccharomyces cerevisiae. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 8027-8032.	7.1	57
77	Transcription-coupled and global genome repair in the Saccharomyces cerevisiae RPB2 gene at nucleotide resolution. Nucleic Acids Research, 1996, 24, 3499-3506.	14.5	37