

Dorothy E Shippen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7450019/publications.pdf>

Version: 2024-02-01

77
papers

5,339
citations

136950

32
h-index

88630

70
g-index

96
all docs

96
docs citations

96
times ranked

5431
citing authors

#	ARTICLE	IF	CITATIONS
1	The draft genome of the transgenic tropical fruit tree papaya (<i>Carica papaya</i> Linnaeus). <i>Nature</i> , 2008, 452, 991-996.	27.8	964
2	The <i>Selaginella</i> Genome Identifies Genetic Changes Associated with the Evolution of Vascular Plants. <i>Science</i> , 2011, 332, 960-963.	12.6	794
3	Conserved Telomere Maintenance Component 1 Interacts with STN1 and Maintains Chromosome Ends in Higher Eukaryotes. <i>Molecular Cell</i> , 2009, 36, 207-218.	9.7	260
4	Living with Genome Instability: Plant Responses to Telomere Dysfunction. <i>Science</i> , 2001, 291, 1797-1800.	12.6	206
5	Telomere length deregulation and enhanced sensitivity to genotoxic stress in <i>Arabidopsis</i> mutants deficient in Ku70. <i>EMBO Journal</i> , 2002, 21, 2819-2826.	7.8	200
6	Molecular analysis of telomere fusions in <i>Arabidopsis</i> : multiple pathways for chromosome end-joining. <i>EMBO Journal</i> , 2004, 23, 2304-2313.	7.8	181
7	Chromatin Organization in Early Land Plants Reveals an Ancestral Association between H3K27me3, Transposons, and Constitutive Heterochromatin. <i>Current Biology</i> , 2020, 30, 573-588.e7.	3.9	160
8	Evolution of CST function in telomere maintenance. <i>Cell Cycle</i> , 2010, 9, 3177-3185.	2.6	140
9	The <i>Arabidopsis</i> Pot1 and Pot2 Proteins Function in Telomere Length Homeostasis and Chromosome End Protection. <i>Molecular and Cellular Biology</i> , 2005, 25, 7725-7733.	2.3	113
10	The Role of the Nonhomologous End-Joining DNA Double-Strand Break Repair Pathway in Telomere Biology. <i>Annual Review of Genetics</i> , 2006, 40, 237-277.	7.6	103
11	Length Regulation and Dynamics of Individual Telomere Tracts in Wild-Type <i>Arabidopsis</i> . <i>Plant Cell</i> , 2004, 16, 1959-1967.	6.6	100
12	Ku is required for telomeric C-rich strand maintenance but not for end-to-end chromosome fusions in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 611-615.	7.1	95
13	<i>Arabidopsis</i> POT1 associates with the telomerase RNP and is required for telomere maintenance. <i>EMBO Journal</i> , 2007, 26, 3653-3661.	7.8	88
14	STN1 protects chromosome ends in <i>Arabidopsis thaliana</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 19815-19820.	7.1	86
15	<i>Arabidopsis</i> SMG7 protein is required for exit from meiosis. <i>Journal of Cell Science</i> , 2008, 121, 2208-2216.	2.0	84
16	Chromosome healing: Spontaneous and programmed <i>de novo</i> telomere formation by telomerase. <i>BioEssays</i> , 1996, 18, 301-308.	2.5	83
17	A C-terminal Myb Extension Domain Defines a Novel Family of Double-strand Telomeric DNA-binding Proteins in <i>Arabidopsis</i> . <i>Journal of Biological Chemistry</i> , 2004, 279, 47799-47807.	3.4	77
18	Dyskerin Is a Component of the <i>Arabidopsis</i> Telomerase RNP Required for Telomere Maintenance. <i>Molecular and Cellular Biology</i> , 2008, 28, 2332-2341.	2.3	68

#	ARTICLE	IF	CITATIONS
19	Telomere dynamics and fusion of critically shortened telomeres in plants lacking DNA ligase IV. <i>Nucleic Acids Research</i> , 2007, 35, 6490-6500.	14.5	66
20	Two RNA subunits and POT1a are components of Arabidopsis telomerase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 73-78.	7.1	66
21	Analysis of the Gâ€overhang structures on plant telomeres: evidence for two distinct telomere architectures. <i>Plant Journal</i> , 2000, 23, 633-641.	5.7	65
22	Rearrangements of ribosomal DNA clusters in late generation telomerase-deficient Arabidopsis. <i>Chromosoma</i> , 2003, 112, 116-123.	2.2	61
23	Telomeres, telomerase, and stability of the plant genome. <i>Plant Molecular Biology</i> , 2002, 48, 331-337.	3.9	58
24	Plant Telomere Biology. <i>Plant Cell</i> , 2004, 16, 794-803.	6.6	53
25	Telomere Rapid Deletion Regulates Telomere Length in <i>Arabidopsis thaliana</i> . <i>Molecular and Cellular Biology</i> , 2007, 27, 1706-1715.	2.3	52
26	ATM and ATR make distinct contributions to chromosome end protection and the maintenance of telomeric DNA in Arabidopsis. <i>Genes and Development</i> , 2005, 19, 2111-2115.	5.9	50
27	Telomere structure, function and maintenance in Arabidopsis. <i>Chromosome Research</i> , 2003, 11, 263-275.	2.2	48
28	Interactions between Telomerase and Primase Physically Link the Telomere and Chromosome Replication Machinery. <i>Molecular and Cellular Biology</i> , 2002, 22, 5859-5868.	2.3	45
29	Developmentally regulated initiation of DNA synthesis by telomerase: evidence for factor-assistedde novotelomere formation. <i>EMBO Journal</i> , 1997, 16, 2507-2518.	7.8	44
30	TELOMERASE ACTIVATOR1 Induces Telomerase Activity and Potentiates Responses to Auxin in Arabidopsis. <i>Plant Cell</i> , 2004, 16, 2910-2922.	6.6	43
31	Parameters Affecting Telomere-Mediated Chromosomal Truncation in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2011, 23, 2263-2272.	6.6	43
32	Developmentally Programmed Gene Elimination in <i>Euplotes crassus</i> Facilitates a Switch in the Telomerase Catalytic Subunit. <i>Cell</i> , 2003, 113, 565-576.	28.9	41
33	POT1a and Components of CST Engage Telomerase and Regulate Its Activity in Arabidopsis. <i>PLoS Genetics</i> , 2014, 10, e1004738.	3.5	35
34	An alternative telomerase RNA in <i>Arabidopsis</i> modulates enzyme activity in response to DNA damage. <i>Genes and Development</i> , 2012, 26, 2512-2523.	5.9	34
35	<i>MERISTEM DISORGANIZATION1</i> Encodes TEN1, an Essential Telomere Protein That Modulates Telomerase Processivity in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2013, 25, 1343-1354.	6.6	33
36	The conserved structure of plant telomerase RNA provides the missing link for an evolutionary pathway from ciliates to humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 24542-24550.	7.1	33

#	ARTICLE	IF	CITATIONS
37	Telomeres and telomerases. <i>Current Opinion in Genetics and Development</i> , 1993, 3, 759-763.	3.3	31
38	Protection of Telomeres 1 Is Required for Telomere Integrity in the Moss <i>Physcomitrella patens</i> . <i>Plant Cell</i> , 2010, 22, 1838-1848.	6.6	31
39	Telomeres, telomerase and plant development. <i>Trends in Plant Science</i> , 1998, 3, 126-130.	8.8	30
40	POT1 proteins in green algae and land plants: DNA-binding properties and evidence of co-evolution with telomeric DNA. <i>Nucleic Acids Research</i> , 2009, 37, 7455-7467.	14.5	30
41	POT1-independent single-strand telomeric DNA binding activities in Brassicaceae. <i>Plant Journal</i> , 2009, 58, 1004-1015.	5.7	29
42	Natural variation in plant telomere length is associated with flowering time. <i>Plant Cell</i> , 2021, 33, 1118-1134.	6.6	29
43	Oligomerization of the telomerase reverse transcriptase from <i>Euplotes crassus</i> . <i>Nucleic Acids Research</i> , 2002, 30, 4032-4039.	14.5	28
44	Analysis of Poly(ADP-Ribose) Polymerases in Arabidopsis Telomere Biology. <i>PLoS ONE</i> , 2014, 9, e88872.	2.5	27
45	Different modes of <i>de novo</i> telomere formation by plant telomerases. <i>Plant Journal</i> , 2001, 26, 77-87.	5.7	26
46	Evolution of the Telomere-Associated Protein POT1a in Arabidopsis thaliana Is Characterized by Positive Selection to Reinforce Protein-Protein Interaction. <i>Molecular Biology and Evolution</i> , 2015, 32, 1329-1341.	8.9	26
47	Dynamic Interactions of Arabidopsis TEN1: Stabilizing Telomeres in Response to Heat Stress. <i>Plant Cell</i> , 2016, 28, 2212-2224.	6.6	26
48	A Transposable Element within the Non-canonical Telomerase RNA of Arabidopsis thaliana Modulates Telomerase in Response to DNA Damage. <i>PLoS Genetics</i> , 2015, 11, e1005281.	3.5	26
49	Single-Cell Telomere-Length Quantification Couples Telomere Length to Meristem Activity and Stem Cell Development in Arabidopsis. <i>Cell Reports</i> , 2015, 11, 977-989.	6.4	24
50	ATR cooperates with CTC1 and STN1 to maintain telomeres and genome integrity in Arabidopsis. <i>Molecular Biology of the Cell</i> , 2012, 23, 1558-1568.	2.1	23
51	ATM regulates the length of individual telomere tracts in Arabidopsis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 18145-18150.	7.1	22
52	Flexible Positioning of the Telomerase-Associated Nuclease Leads to Preferential Elimination of Nontelomeric DNA. <i>Molecular and Cellular Biology</i> , 1998, 18, 1544-1552.	2.3	21
53	Telomerase-independent cell survival in Arabidopsis thaliana. <i>Plant Journal</i> , 2005, 43, 662-674.	5.7	20
54	Evolution of the Arabidopsis telomerase RNA. <i>Frontiers in Genetics</i> , 2012, 3, 188.	2.3	19

#	ARTICLE	IF	CITATIONS
55	Blunt-ended telomeres: an alternative ending to the replication and end protection stories. <i>Genes and Development</i> , 2012, 26, 1648-1652.	5.9	16
56	Evolution of TERT-interacting lncRNAs: expanding the regulatory landscape of telomerase. <i>Frontiers in Genetics</i> , 2015, 6, 277.	2.3	16
57	DDM1 guards against telomere truncation in Arabidopsis. <i>Plant Cell Reports</i> , 2018, 37, 501-513.	5.6	16
58	Components of the ribosome biogenesis pathway underlie establishment of telomere length set point in Arabidopsis. <i>Nature Communications</i> , 2019, 10, 5479.	12.8	16
59	Plant telomere biology: The green solution to the end-replication problem. <i>Plant Cell</i> , 2022, 34, 2492-2504.	6.6	14
60	Functional Diversification of Replication Protein A Paralogs and Telomere Length Maintenance in Arabidopsis. <i>Genetics</i> , 2020, 215, 989-1002.	2.9	12
61	Sequence of the macronuclear DNA encoding large subunit ribosomal protein 29 (L29) in <i>Euplotes crassus</i> and cycloheximide sensitivity. <i>Gene</i> , 1994, 151, 231-235.	2.2	10
62	<i>Selaginella moellendorffii</i> telomeres: conserved and unique features in an ancient land plant lineage. <i>Frontiers in Plant Science</i> , 2012, 3, 161.	3.6	10
63	Evolution of Arabidopsis protection of telomeres 1 alters nucleic acid recognition and telomerase regulation. <i>Nucleic Acids Research</i> , 2016, 44, gkw807.	14.5	10
64	Whatâ€™s in a name?. <i>ELife</i> , 2017, 6, .	6.0	10
65	Reiterative dG addition by <i>Euplotes crassus</i> telomerase during extension of non-telomeric DNA. <i>Nucleic Acids Research</i> , 1998, 26, 3998-4004.	14.5	8
66	Telomerase Enzyme Activity as a Diagnostic Tool to Distinguish Effusions of Malignant and Benign Origin. <i>Journal of Veterinary Internal Medicine</i> , 2000, 14, 146-150.	1.6	8
67	Surprise ending. <i>Nature Genetics</i> , 2003, 33, 114-116.	21.4	8
68	Back to the future: The intimate and evolving connection between telomere-related factors and genotoxic stress. <i>Journal of Biological Chemistry</i> , 2019, 294, 14803-14813.	3.4	8
69	tRNA ADENOSINE DEAMINASE 3 is required for telomere maintenance in <i>Arabidopsis thaliana</i> . <i>Plant Cell Reports</i> , 2020, 39, 1669-1685.	5.6	8
70	Recent emergence and extinction of the protection of telomeres 1c gene in <i>Arabidopsis thaliana</i> . <i>Plant Cell Reports</i> , 2019, 38, 1081-1097.	5.6	6
71	A hypomorphic allele of telomerase uncovers the minimal functional length of telomeres in Arabidopsis. <i>Genetics</i> , 2021, 219, .	2.9	6
72	Arabidopsis retains vertebrate-type telomerase accessory proteins via a plant-specific assembly. <i>Nucleic Acids Research</i> , 2021, 49, 9496-9507.	14.5	6

#	ARTICLE	IF	CITATIONS
73	Plasticity, pleiotropy and fitness trade-offs in Arabidopsis genotypes with different telomere lengths. <i>New Phytologist</i> , 2022, 233, 1939-1952.	7.3	6
74	Quantification of 8-oxoG in Plant Telomeres. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4990.	4.1	5
75	Breaking new ground: the emergence of non-canonical functions for telomerase subunits in plants. <i>FASEB Journal</i> , 2019, 33, 341.1.	0.5	0
76	Change and HOAP for the best. <i>ELife</i> , 2020, 9, .	6.0	0
77	PROTECTION OF TELOMERES 1b Modulates Cellular ROS and Chromatin Structure in <i>Arabidopsis thaliana</i> . <i>FASEB Journal</i> , 2022, 36, .	0.5	0