Titia de Lange

List of Publications by Year
in descending order

170 papers	45,718 citations	2309 101 h-index	4983 173 g-index
198 all docs	198 docs citations	198 times ranked	22463 citing authors

#	Article	IF	Citations
1	53BP1â€“shieldin-dependent DSB processing in BRCA1-deficient cells requires CSTâ€“PolÎ±â€“primase fill-in synthesis. Nature Cell Biology, 2022, 24, 51-61.	4.6	28
2	Expression of BRCA1, BRCA2, RAD51, and other DSB repair factors is regulated by CRL4WDR70. DNA Repair, 2022, 113, 103320.	1.3	2
3	Cryo-EM structure of the human CSTâ€“PolÎ±/primase complex in a recruitment state. Nature Structural and Molecular Biology, 2022, 29, 813-819.	3.6	40
4	Structural variant evolution after telomere crisis. Nature Communications, 2021, 12, 2093.	5.8	16
5	The evolution of metazoan shelterin. Genes and Development, 2021, 35, 1625-1641.	2.7	27
6	ATRX affects the repair of telomeric DSBs by promoting cohesion and a DAXX-dependent activity. PLoS Biology, 2020, 18, e3000594.	2.6	46
7	53BP1: a DSB escort. Genes and Development, 2020, 34, 7-23.	2.7	170
8	Distinct Classes of Complex Structural Variation Uncovered across Thousands of Cancer Genome Graphs. Cell, 2020, 183, 197-210.e32.	13.5	141
9	APOBEC3-dependent kataegis and TREX1-driven chromothripsis during telomere crisis. Nature Genetics, 2020, 52, 884-890.	9.4	106
10	Break-induced replication promotes fragile telomere formation. Genes and Development, 2020, 34, 1392-1405.	2.7	41
11	Characterization of t-loop formation by TRF2. Nucleus, 2020, 11, 164-177.	0.6	34
12	TINF2 is a haploinsufficient tumor suppressor that limits telomere length. ELife, 2020, 9, .	2.8	27
13	Shelterin-Mediated Telomere Protection. Annual Review of Genetics, 2018, 52, 223-247.	3.2	568
14	Protection of telomeres 1 proteins POT1a and POT1b can repress ATR signaling by RPA exclusion, but binding to CST limits ATR repression by POT1b. Journal of Biological Chemistry, 2018, 293, 14384-14392.	1.6	33
15	What I got wrong about shelterin. Journal of Biological Chemistry, 2018, 293, 10453-10456.	1.6	7
16	53BP1â€“RIF1â€“shieldin counteracts DSB resection through CST- and PolÎ±-dependent fill-in. Nature, 2018, 560, 112-116.	13.7	313
17	Telomeres in cancer: tumour suppression and genome instability. Nature Reviews Molecular Cell Biology, 2017, 18, 175-186.	16.1	505
18	PHF11 promotes DSB resection, ATR signaling, and HR. Genes and Development, 2017, 31, 46-58.	2.7	17

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19	The DDR at telomeres lacking intact shelterin does not require substantial chromatin decompaction. Genes and Development, 2017, 31, 578-589.	2.7	54
20	Telomere Recognition and Assembly Mechanism of Mammalian Shelterin. Cell Reports, 2017, 18, 41-53.	2.9	61
21	Not just Salk. Science, 2017, 357, 1105-1106.	6.0	4
22	Nuclear Envelope Rupture Is Enhanced by Loss of p53 or Rb. Molecular Cancer Research, 2017, 15, 1579-1586.	1.5	48
23	TRF2 binds branched DNA to safeguard telomere integrity. Nature Structural and Molecular Biology, 2017, 24, 734-742.	3.6	63
24	Shelterin. Current Biology, 2016, 26, R397-R399.	1.8	55
25	Telomere-Internal Double-Strand Breaks Are Repaired by Homologous Recombination and PARP1/Lig3-Dependent End-Joining. Cell Reports, 2016, 17, 1646-1656.	2.9	78
26	TPP1 Blocks an ATR-Mediated Resection Mechanism at Telomeres. Molecular Cell, 2016, 61, 236-246.	4.5	48
27	A POT1 mutation implicates defective telomere end fill-in and telomere truncations in Coats plus. Genes and Development, 2016, 30, 812-826.	2.7	77
28	ATM and ATR Signaling Regulate the Recruitment of Human Telomerase to Telomeres. Cell Reports, 2015, 13, 1633-1646.	2.9	118
29	A loopy view of telomere evolution. Frontiers in Genetics, 2015, 6, 321.	1.1	56
30	Chromothripsis and Kataegis Induced by Telomere Crisis. Cell, 2015, 163, 1641-1654.	13.5	541
31	53BP1 and the LINC Complex Promote Microtubule-Dependent DSB Mobility and DNA Repair. Cell, 2015, 163, 880-893.	13.5	251
32	A TIN2 dyskeratosis congenita mutation causes telomerase-independent telomere shortening in mice. Genes and Development, 2014, 28, 153-166.	2.7	49
33	TALEN Gene Knockouts Reveal No Requirement for the Conserved Human Shelterin Protein Rap1 in Telomere Protection and Length Regulation. Cell Reports, 2014, 9, 1273-1280.	2.9	56
34	TRF1 negotiates TTAGGG repeat-associated replication problems by recruiting the BLM helicase and the TPP1/POT1 repressor of ATR signaling. Genes and Development, 2014, 28, 2477-2491.	2.7	156
35	Binding of TPP1 Protein to TIN2 Protein Is Required for POT1a,b Protein-mediated Telomere Protection. Journal of Biological Chemistry, 2014, 289, 24180-24187.	1.6	40
36	53BP1: pro choice in DNA repair. Trends in Cell Biology, 2014, 24, 108-117.	3.6	308

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37	TRF2-Tethered TIN2 Can Mediate Telomere Protection by TPP1/POT1. Molecular and Cellular Biology, 2014, 34, 1349-1362.	1.1	69
38	The Role of Double-Strand Break Repair Pathways at Functional and Dysfunctional Telomeres. Cold Spring Harbor Perspectives in Biology, 2014, 6, a016576-a016576.	2.3	107
39	Super-Resolution Fluorescence Imaging of Telomeres Reveals TRF2-Dependent T-loop Formation. Cell, 2013, 155, 345-356.	13.5	400
40	53BP1 Regulates DSB Repair Using Rif1 to Control 5â€² End Resection. Science, 2013, 339, 700-704.	6.0	518
41	Role of 53BP1 oligomerization in regulating double-strand break repair. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 2146-2151.	3.3	64
42	Loss of ATRX, Genome Instability, and an Altered DNA Damage Response Are Hallmarks of the Alternative Lengthening of Telomeres Pathway. PLoS Genetics, 2012, 8, e1002772.	1.5	489
43	Telomeric 3â€² Overhangs Derive from Resection by Exo1 and Apollo and Fill-In by POT1b-Associated CST. Cell, 2012, 150, 39-52.	13.5	269
44	A TRF1-controlled common fragile site containing interstitial telomeric sequences. Chromosoma, 2012, 121, 465-474.	1.0	46
45	Removal of Shelterin Reveals the Telomere End-Protection Problem. Science, 2012, 336, 593-597.	6.0	494
46	Telomere-Driven Tetraploidization Occurs in Human Cells Undergoing Crisis and Promotes Transformation of Mouse Cells. Cancer Cell, 2012, 21, 765-776.	7.7	197
47	Telomere Protection by TPP1/POT1 Requires Tethering to TIN2. Molecular Cell, 2011, 44, 647-659.	4.5	193
48	The Causes and Consequences of Polyploidy in Normal Development and Cancer. Annual Review of Cell and Developmental Biology, 2011, 27, 585-610.	4.0	375
49	Rap1-independent telomere attachment and bouquet formation in mammalian meiosis. Chromosoma, 2011, 120, 151-157.	1.0	37
50	Telomere biology and DNA repair: Enemies with benefits. FEBS Letters, 2010, 584, 3673-3674.	1.3	17
51	Tel2 structure and function in the Hsp90-dependent maturation of mTOR and ATR complexes. Genes and Development, 2010, 24, 2019-2030.	2.7	171
52	In Vivo Stoichiometry of Shelterin Components. Journal of Biological Chemistry, 2010, 285, 1457-1467.	1.6	199
53	Loss of Rap1 Induces Telomere Recombination in the Absence of NHEJ or a DNA Damage Signal. Science, 2010, 327, 1657-1661.	6.0	240
54	Telomere Protection by TPP1 Is Mediated by POT1a and POT1b. Molecular and Cellular Biology, 2010, 30, 1059-1066.	1.1	105

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55	Taking apart Rap1. Cell Cycle, 2010, 9, 4061-4067.	1.3	28
56	How Shelterin Solves the Telomere End-Protection Problem. Cold Spring Harbor Symposia on Quantitative Biology, 2010, 75, 167-177.	2.0	142
57	Apollo Contributes to G Overhang Maintenance and Protects Leading-End Telomeres. Molecular Cell, 2010, 39, 606-617.	4.5	136
58	CK2 Phospho-Dependent Binding of R2TP Complex to TEL2 Is Essential for mTOR and SMG1 Stability. Molecular Cell, 2010, 39, 839-850.	4.5	175
59	A Shld1-Controlled POT1a Provides Support for Repression of ATR Signaling at Telomeres through RPA Exclusion. Molecular Cell, 2010, 40, 377-387.	4.5	79
60	Persistent Telomere Damage Induces Bypass of Mitosis and Tetraploidy. Cell, 2010, 141, 81-93.	13.5	248
61	Functional Dissection of Human and Mouse POT1 Proteins. Molecular and Cellular Biology, 2009, 29, 471-482.	1.1	109
62	Cell Cycle-Dependent Role of MRN at Dysfunctional Telomeres: ATM Signaling-Dependent Induction of Nonhomologous End Joining (NHEJ) in G₁ and Resection-Mediated Inhibition of NHEJ in G₂. Molecular and Cellular Biology, 2009, 29, 5552-5563.	1.1	104
63	Mammalian Rif1 contributes to replication stress survival and homology-directed repair. Journal of Cell Biology, 2009, 187, 385-398.	2.3	125
64	Mammalian Telomeres Resemble Fragile Sites and Require TRF1 for Efficient Replication. Cell, 2009, 138, 90-103.	13.5	835
65	Human Telomerase Caught in the Act. Cell, 2009, 138, 432-434.	13.5	3
66	How Telomeres Solve the End-Protection Problem. Science, 2009, 326, 948-952.	6.0	720
67	53BP1 promotes non-homologous end joining of telomeres by increasing chromatin mobility. Nature, 2008, 456, 524-528.	13.7	511
68	How Shelterin Protects Mammalian Telomeres. Annual Review of Genetics, 2008, 42, 301-334.	3.2	1,604
69	Engineered telomere degradation models dyskeratosis congenita. Genes and Development, 2008, 22, 1773-1785.	2.7	100
70	No Overt Nucleosome Eviction at Deprotected Telomeres. Molecular and Cellular Biology, 2008, 28, 5724-5735.	1.1	36
71	A Shared Docking Motif in TRF1 and TRF2 Used for Differential Recruitment of Telomeric Proteins. Science, 2008, 319, 1092-1096.	6.0	227
72	Cell cycle control of telomere protection and NHEJ revealed by a ts mutation in the DNA-binding domain of TRF2. Genes and Development, 2008, 22, 1221-1230.	2.7	82

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73	The Role of the Poly(ADP-ribose) Polymerase Tankyrase1 in Telomere Length Control by the TRF1 Component of the Shelterin Complex. Journal of Biological Chemistry, 2007, 282, 22662-22667.	1.6	63
74	Tel2 Regulates the Stability of PI3K-Related Protein Kinases. Cell, 2007, 131, 1248-1259.	13.5	214
75	Telomere protection by mammalian Pot1 requires interaction with Tpp1. Nature Structural and Molecular Biology, 2007, 14, 754-761.	3.6	167
76	Protection of telomeres through independent control of ATM and ATR by TRF2 and POT1. Nature, 2007, 448, 1068-1071.	13.7	738
77	Mutations that affect meiosis in male mice influence the dynamics of the mid-preleptotene and bouquet stages. Experimental Cell Research, 2006, 312, 3768-3781.	1.2	59
78	Recent Expansion of the Telomeric Complex in Rodents: Two Distinct POT1 Proteins Protect Mouse Telomeres. Cell, 2006, 126, 63-77.	13.5	351
79	Lasker Laurels for Telomerase. Cell, 2006, 126, 1017-1020.	13.5	10
80	Ku70 stimulates fusion of dysfunctional telomeres yet protects chromosome ends from homologous recombination. Nature Cell Biology, 2006, 8, 885-890.	4.6	263
81	Apollo, an Artemis-Related Nuclease, Interacts with TRF2 and Protects Human Telomeres in S Phase. Current Biology, 2006, 16, 1295-1302.	1.8	183
82	MDC1 accelerates nonhomologous end-joining of dysfunctional telomeres. Genes and Development, 2006, 20, 3238-3243.	2.7	85
83	Hepatocytes with extensive telomere deprotection and fusion remain viable and regenerate liver mass through endoreduplication. Genes and Development, 2006, 20, 2648-2653.	2.7	119
84	Telomere-related Genome Instability in Cancer. Cold Spring Harbor Symposia on Quantitative Biology, 2005, 70, 197-204.	2.0	155
85	Shelterin: the protein complex that shapes and safeguards human telomeres. Genes and Development, 2005, 19, 2100-2110.	2.7	2,547
86	DNA processing is not required for ATM-mediated telomere damage response after TRF2 deletion. Nature Cell Biology, 2005, 7, 712-718.	4.6	531
87	POT1 protects telomeres from a transient DNA damage response and determines how human chromosomes end. EMBO Journal, 2005, 24, 2667-2678.	3.5	269
88	p16INK4a as a Second Effector of the Telomere Damage Pathway. Cell Cycle, 2005, 4, 1364-1368.	1.3	77
89	POT1-interacting protein PIP1: a telomere length regulator that recruits POT1 to the TIN2/TRF1 complex. Genes and Development, 2004, 18, 1649-1654.	2.7	383
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92	TIN2 Binds TRF1 and TRF2 Simultaneously and Stabilizes the TRF2 Complex on Telomeres. Journal of Biological Chemistry, 2004, 279, 47264-47271.	1.6	275
93	The Telomeric Protein TRF2 Binds the ATM Kinase and Can Inhibit the ATM-Dependent DNA Damage Response. PLoS Biology, 2004, 2, e240.	2.6	306
94	TIN2 is a tankyrase 1 PARP modulator in the TRF1 telomere length control complex. Nature Genetics, 2004, 36, 618-623.	9.4	163
95	T-loops and the origin of telomeres. Nature Reviews Molecular Cell Biology, 2004, 5, 323-329.	16.1	381
96	Significant Role for p16INK4a in p53-Independent Telomere-Directed Senescence. Current Biology, 2004, 14, 2302-2308.	1.8	199
97	Regulation of Telomerase by Telomeric Proteins. Annual Review of Biochemistry, 2004, 73, 177-208.	5.0	721
98	Homologous Recombination Generates T-Loop-Sized Deletions at Human Telomeres. Cell, 2004, 119, 355-368.	13.5	462
99	Telomerase Regulation at the Telomere. Cell, 2004, 117, 279-280.	13.5	9
100	DNA Damage Foci at Dysfunctional Telomeres. Current Biology, 2003, 13, 1549-1556.	1.8	1,224
101	POT1 as a terminal transducer of TRF1 telomere length control. Nature, 2003, 423, 1013-1018.	13.7	600
102	ERCC1/XPF Removes the 3â€² Overhang from Uncapped Telomeres and Represses Formation of Telomeric DNA-Containing Double Minute Chromosomes. Molecular Cell, 2003, 12, 1489-1498.	4.5	349
103	Rap1 Affects the Length and Heterogeneity of Human Telomeres. Molecular Biology of the Cell, 2003, 14, 5060-5068.	0.9	141
104	Targeted Deletion Reveals an Essential Function for the Telomere Length Regulator Trf1. Molecular and Cellular Biology, 2003, 23, 6533-6541.	1.1	150
105	Senescence Induced by Altered Telomere State, Not Telomere Loss. Science, 2002, 295, 2446-2449.	6.0	711
106	DNA Ligase IV-Dependent NHEJ of Deprotected Mammalian Telomeres in G1 and G2. Current Biology, 2002, 12, 1635-1644.	1.8	336
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108	Different telomere damage signaling pathways in human and mouse cells. EMBO Journal, 2002, 21, 4338-4348.	3.5	403

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110	Structure of the TRFH Dimerization Domain of the Human Telomeric Proteins TRF1 and TRF2. Molecular Cell, 2001, 8, 351-361.	4.5	196
111	T-loop assembly in vitro involves binding of TRF2 near the 3' telomeric overhang. EMBO Journal, 2001, 20, 5532-5540.	3.5	437
112	t-loops at trypanosome telomeres. EMBO Journal, 2001, 20, 579-588.	3.5	196
113	CELL BIOLOGY: Enhanced: Telomere Capping--One Strand Fits All. Science, 2001, 292, 1075-1076.	6.0	65
114	Cell-cycle-regulated association of RAD50/MRE11/NBS1 with TRF2 and human telomeres. Nature Genetics, 2000, 25, 347-352.	9.4	560
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117	Mammalian Meiotic Telomeres: Protein Composition and Redistribution in Relation to Nuclear Pores. Molecular Biology of the Cell, 2000, 11, 4189-4203.	0.9	142
118	Identification of Human Rap1. Cell, 2000, 101, 471-483.	13.5	518
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120	Ku Binds Telomeric DNA in Vitro. Journal of Biological Chemistry, 1999, 274, 21223-21227.	1.6	124
121	TRF1 binds a bipartite telomeric site with extreme spatial flexibility. EMBO Journal, 1999, 18, 5735-5744.	3.5	184
122	Unlimited Mileage from Telomerase?. Science, 1999, 283, 947-949.	6.0	66
123	p53- and ATM-Dependent Apoptosis Induced by Telomeres Lacking TRF2. Science, 1999, 283, 1321-1325.	6.0	969
124	Mammalian Telomeres End in a Large Duplex Loop. Cell, 1999, 97, 503-514.	13.5	2,172
125	For Better or Worse? Telomerase Inhibition and Cancer. Cell, 1999, 98, 273-275.	13.5	114
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128	Autoantibodies to DEK oncoprotein in a patient with systemic lupus erythematosus and sarcoidosis. Arthritis and Rheumatism, 1998, 41, 1505-1510.	6.7	38
129	TRF2 Protects Human Telomeres from End-to-End Fusions. Cell, 1998, 92, 401-413.	13.5	1,529
130	TRF1 promotes parallel pairing of telomeric tracts in vitro. Journal of Molecular Biology, 1998, 278, 79-88.	2.0	132
131	CELL BIOLOGY: Telomeres and Senescence: Ending the Debate. Science, 1998, 279, 334-335.	6.0	172
132	Tankyrase, a Poly(ADP-Ribose) Polymerase at Human Telomeres. , 1998, 282, 1484-1487.		882
133	Comparison of the human and mouse genes encoding the telomeric protein, TRF1: chromosomal localization, expression and conserved protein domains. Human Molecular Genetics, 1997, 6, 69-76.	1.4	86
134	Human telomeres contain two distinct Mybâ€"related proteins, TRF1 and TRF2. Nature Genetics, 1997, 17, 231-235.	9.4	849
135	Control of telomere length by the human telomeric protein TRF1. Nature, 1997, 385, 740-743.	13.7	1,109
136	TRF1, a mammalian telomeric protein. Trends in Genetics, 1997, 13, 21-26.	2.9	109
137	TRF1 is a dimer and bends telomeric DNA. EMBO Journal, 1997, 16, 1785-1794.	3.5	289
138	In search of vertebrate telomeric proteins. Seminars in Cell and Developmental Biology, 1996, 7, 23-29.	2.3	8
139	Structure, subnuclear distribution, and nuclear matrix association of the mammalian telomeric complex.. Journal of Cell Biology, 1996, 135, 867-881.	2.3	214
140	Telomerase activity in normal and malignant hematopoietic cells.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 9082-9086.	3.3	667
141	A Human Telomeric Protein. Science, 1995, 270, 1663-1667.	6.0	622
142	Unusual chromatin in human telomeres.. Molecular and Cellular Biology, 1994, 14, 5777-5785.	1.1	203
143	Activation of telomerase in a human tumor.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 2882-2885.	3.3	261
144	Stringent sequence requirements for the formation of human telomeres.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 8861-8865.	3.3	193

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146	A Xenopus egg factor with DNA-binding properties characteristic of terminus-specific telomeric proteins.. Genes and Development, 1993, 7, 883-894.	2.7	69
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148	Human telomeres are attached to the nuclear matrix.. EMBO Journal, 1992, 11, 717-724.	3.5	304
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151	Definition of regions in human c-myc that are involved in transformation and nuclear localization.. Molecular and Cellular Biology, 1987, 7, 1697-1709.	1.1	502
152	Coincident multiple activations of the same surface antigen gene in Trypanosoma brucei. Journal of Molecular Biology, 1987, 194, 81-90.	2.0	34
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164	Telomere conversion in trypanosomes. Nucleic Acids Research, 1983, 11, 8149-8165.	6.5	80
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170	Protection of mammalian telomeres. , 0, .		4