

# Maria Pia Longhese

## List of Publications by Citations

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83  
papers

4,073  
citations

36  
h-index

63  
g-index

85  
ext. papers

4,639  
ext. citations

8.3  
avg, IF

5.32  
L-index

#	Paper	IF	Citations
83	Telomeric DNA damage is irreparable and causes persistent DNA-damage-response activation. <i>Nature Cell Biology</i> , <b>2012</b> , 14, 355-65	23.4	511
82	A central role for DNA replication forks in checkpoint activation and response. <i>Molecular Cell</i> , <b>2003</b> , 11, 1323-36	17.6	334
81	The <i>Saccharomyces cerevisiae</i> Sae2 protein promotes resection and bridging of double strand break ends. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 38631-8	5.4	150
80	DNA damage response at functional and dysfunctional telomeres. <i>Genes and Development</i> , <b>2008</b> , 22, 125-40	12.6	127
79	RPA regulates telomerase action by providing Est1p access to chromosome ends. <i>Nature Genetics</i> , <b>2004</b> , 36, 46-54	36.3	123
78	The checkpoint protein Ddc2, functionally related to <i>S. pombe</i> Rad26, interacts with Mec1 and is regulated by Mec1-dependent phosphorylation in budding yeast. <i>Genes and Development</i> , <b>2000</b> , 14, 2046-2059 <sup>126</sup>	12.6	121
77	Mec1p is essential for phosphorylation of the yeast DNA damage checkpoint protein Ddc1p, which physically interacts with Mec3p. <i>EMBO Journal</i> , <b>1998</b> , 17, 4199-209	13	113
76	The <i>Saccharomyces cerevisiae</i> Sae2 protein negatively regulates DNA damage checkpoint signalling. <i>EMBO Reports</i> , <b>2006</b> , 7, 212-8	6.5	112
75	The Yku70-Yku80 complex contributes to regulate double-strand break processing and checkpoint activation during the cell cycle. <i>EMBO Reports</i> , <b>2008</b> , 9, 810-8	6.5	108
74	Multiple pathways regulate 3' overhang generation at <i>S. cerevisiae</i> telomeres. <i>Molecular Cell</i> , <b>2009</b> , 35, 70-81	17.6	104
73	The functions of budding yeast Sae2 in the DNA damage response require Mec1- and Tel1-dependent phosphorylation. <i>Molecular and Cellular Biology</i> , <b>2004</b> , 24, 4151-65	4.8	101
72	Physical and functional interactions between nucleotide excision repair and DNA damage checkpoint. <i>EMBO Journal</i> , <b>2004</b> , 23, 429-38	13	96
71	Characterization of mec1 kinase-deficient mutants and of new hypomorphic mec1 alleles impairing subsets of the DNA damage response pathway. <i>Molecular and Cellular Biology</i> , <b>2001</b> , 21, 3913-25	4.8	96
70	Interaction between Set1p and checkpoint protein Mec3p in DNA repair and telomere functions. <i>Nature Genetics</i> , <b>1999</b> , 21, 204-8	36.3	90
69	Dual role for <i>Saccharomyces cerevisiae</i> Tel1 in the checkpoint response to double-strand breaks. <i>EMBO Reports</i> , <b>2007</b> , 8, 380-7	6.5	85
68	Shelterin-like proteins and Yku inhibit nucleolytic processing of <i>Saccharomyces cerevisiae</i> telomeres. <i>PLoS Genetics</i> , <b>2010</b> , 6, e1000966	6	81
67	Irreparable telomeric DNA damage and persistent DDR signalling as a shared causative mechanism of cellular senescence and ageing. <i>Current Opinion in Genetics and Development</i> , <b>2014</b> , 26, 89-95	4.9	76

66	Interplays between ATM/Tel1 and ATR/Mec1 in sensing and signaling DNA double-strand breaks. <i>DNA Repair</i> , <b>2013</b> , 12, 791-9	4.3	74
65	Mechanisms and regulation of DNA end resection. <i>EMBO Journal</i> , <b>2010</b> , 29, 2864-74	13	72
64	Budding Yeast Sae2 is an In Vivo Target of the Mec1 and Tel1 Checkpoint Kinases During Meiosis. <i>Cell Cycle</i> , <b>2006</b> , 5, 1549-59	4.7	65
63	DNA double-strand breaks in meiosis: checking their formation, processing and repair. <i>DNA Repair</i> , <b>2009</b> , 8, 1127-38	4.3	61
62	Checkpoint proteins influence telomeric silencing and length maintenance in budding yeast. <i>Genetics</i> , <b>2000</b> , 155, 1577-91	4	60
61	The S-phase checkpoint and its regulation in <i>Saccharomyces cerevisiae</i> . <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , <b>2003</b> , 532, 41-58	3.3	57
60	Regulation of the DNA damage response by cyclin-dependent kinases. <i>Journal of Molecular Biology</i> , <b>2013</b> , 425, 4756-66	6.5	54
59	Mutations in the gene encoding the 34 kDa subunit of yeast replication protein A cause defective S phase progression. <i>Journal of Molecular Biology</i> , <b>1995</b> , 254, 595-607	6.5	53
58	Rif1 supports the function of the CST complex in yeast telomere capping. <i>PLoS Genetics</i> , <b>2011</b> , 7, e1002024	24	49
57	Mec1/ATR regulates the generation of single-stranded DNA that attenuates Tel1/ATM signaling at DNA ends. <i>EMBO Journal</i> , <b>2014</b> , 33, 198-216	13	47
56	Dephosphorylation of gamma H2A by Glc7/protein phosphatase 1 promotes recovery from inhibition of DNA replication. <i>Molecular and Cellular Biology</i> , <b>2010</b> , 30, 131-45	4.8	42
55	MRX-dependent DNA damage response to short telomeres. <i>Molecular Biology of the Cell</i> , <b>2007</b> , 18, 3047-58	35	42
54	Escape of Sgs1 from Rad9 inhibition reduces the requirement for Sae2 and functional MRX in DNA end resection. <i>EMBO Reports</i> , <b>2015</b> , 16, 351-61	6.5	41
53	Processing of meiotic DNA double strand breaks requires cyclin-dependent kinase and multiple nucleases. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 11628-37	5.4	41
52	The set1Delta mutation unveils a novel signaling pathway relayed by the Rad53-dependent hyperphosphorylation of replication protein A that leads to transcriptional activation of repair genes. <i>Genes and Development</i> , <b>2001</b> , 15, 1845-58	12.6	41
51	Sae2 Function at DNA Double-Strand Breaks Is Bypassed by Dampening Tel1 or Rad53 Activity. <i>PLoS Genetics</i> , <b>2015</b> , 11, e1005685	6	39
50	The cellular response to chromosome breakage. <i>Molecular Microbiology</i> , <b>2006</b> , 60, 1099-108	4.1	37
49	A Tel1/MRX-dependent checkpoint inhibits the metaphase-to-anaphase transition after UV irradiation in the absence of Mec1. <i>Molecular and Cellular Biology</i> , <b>2004</b> , 24, 10126-44	4.8	37

48	The MRX complex plays multiple functions in resection of Yku- and Rif2-protected DNA ends. <i>PLoS ONE</i> , <b>2010</b> , 5, e14142	3.7	36
47	A balance between Tel1 and Rif2 activities regulates nucleolytic processing and elongation at telomeres. <i>Molecular and Cellular Biology</i> , <b>2012</b> , 32, 1604-17	4.8	36
46	Role of the <i>Saccharomyces cerevisiae</i> Rad53 checkpoint kinase in signaling double-strand breaks during the meiotic cell cycle. <i>Molecular and Cellular Biology</i> , <b>2008</b> , 28, 4480-93	4.8	34
45	Tel1 and Rif2 Regulate MRX Functions in End-Tethering and Repair of DNA Double-Strand Breaks. <i>PLoS Biology</i> , <b>2016</b> , 14, e1002387	9.7	33
44	Distinct Cdk1 requirements during single-strand annealing, noncrossover, and crossover recombination. <i>PLoS Genetics</i> , <b>2011</b> , 7, e1002263	6	30
43	Processing of DNA Ends in the Maintenance of Genome Stability. <i>Frontiers in Genetics</i> , <b>2018</b> , 9, 390	4.5	28
42	RNA-processing proteins regulate Mec1/ATR activation by promoting generation of RPA-coated ssDNA. <i>EMBO Reports</i> , <b>2015</b> , 16, 221-31	6.5	27
41	Functions of <i>Saccharomyces cerevisiae</i> 14-3-3 proteins in response to DNA damage and to DNA replication stress. <i>Genetics</i> , <b>2003</b> , 165, 1717-32	4	26
40	The ATP-bound conformation of the Mre11-Rad50 complex is essential for Tel1/ATM activation. <i>Nucleic Acids Research</i> , <b>2019</b> , 47, 3550-3567	20.1	26
39	Coupling end resection with the checkpoint response at DNA double-strand breaks. <i>Cellular and Molecular Life Sciences</i> , <b>2016</b> , 73, 3655-63	10.3	26
38	Dominant TEL1-hy mutations compensate for Mec1 lack of functions in the DNA damage response. <i>Molecular and Cellular Biology</i> , <b>2008</b> , 28, 358-75	4.8	25
37	The <i>Saccharomyces cerevisiae</i> 14-3-3 proteins are required for the G1/S transition, actin cytoskeleton organization and cell wall integrity. <i>Genetics</i> , <b>2006</b> , 173, 661-75	4	25
36	Telomeres and DNA damage checkpoints. <i>Biochimie</i> , <b>2005</b> , 87, 613-24	4.6	24
35	Telomere-end processing: mechanisms and regulation. <i>Chromosoma</i> , <b>2013</b> , 123, 57	2.8	22
34	Resection is responsible for loss of transcription around a double-strand break in <i>Saccharomyces cerevisiae</i> . <i>ELife</i> , <b>2015</b> , 4,	8.9	22
33	Structurally distinct Mre11 domains mediate MRX functions in resection, end-tethering and DNA damage resistance. <i>Nucleic Acids Research</i> , <b>2018</b> , 46, 2990-3008	20.1	20
32	Tbf1 and Vid22 promote resection and non-homologous end joining of DNA double-strand break ends. <i>EMBO Journal</i> , <b>2013</b> , 32, 275-89	13	20
31	Functional and physical interactions between yeast 14-3-3 proteins, acetyltransferases, and deacetylases in response to DNA replication perturbations. <i>Molecular and Cellular Biology</i> , <b>2007</b> , 27, 3266-81	4.8	20

30	Sudden telomere lengthening triggers a Rad53-dependent checkpoint in <i>Saccharomyces cerevisiae</i> . <i>Molecular Biology of the Cell</i> , <b>2003</b> , 14, 3126-43	3.5	20
29	Functional and structural insights into the MRX/MRN complex, a key player in recognition and repair of DNA double-strand breaks. <i>Computational and Structural Biotechnology Journal</i> , <b>2020</b> , 18, 1137-1152	6.8	19
28	<i>Saccharomyces cerevisiae</i> Rif1 cooperates with MRX-Sae2 in promoting DNA-end resection. <i>EMBO Reports</i> , <b>2014</b> , 15, 695-704	6.5	19
27	PP2A Controls Genome Integrity by Integrating Nutrient-Sensing and Metabolic Pathways with the DNA Damage Response. <i>Molecular Cell</i> , <b>2017</b> , 67, 266-281.e4	17.6	17
26	Rad9/53BP1 protects stalled replication forks from degradation in Mec1/ATR-defective cells. <i>EMBO Reports</i> , <b>2018</b> , 19, 351-367	6.5	16
25	The MRX complex regulates Exo1 resection activity by altering DNA end structure. <i>EMBO Journal</i> , <b>2018</b> , 37,	13	16
24	Tel1/ATM prevents degradation of replication forks that reverse after topoisomerase poisoning. <i>EMBO Reports</i> , <b>2018</b> , 19,	6.5	15
23	The role of shelterin in maintaining telomere integrity. <i>Frontiers in Bioscience - Landmark</i> , <b>2012</b> , 17, 1715-28	28	15
22	Processing of DNA Double-Strand Breaks by the MRX Complex in a Chromatin Context. <i>Frontiers in Molecular Biosciences</i> , <b>2019</b> , 6, 43	5.6	14
21	Surveillance mechanisms monitoring chromosome breaks during mitosis and meiosis. <i>DNA Repair</i> , <b>2008</b> , 7, 545-57	4.3	12
20	G(1)/S and G(2)/M cyclin-dependent kinase activities commit cells to death in the absence of the S-phase checkpoint. <i>Molecular and Cellular Biology</i> , <b>2012</b> , 32, 4971-85	4.8	9
19	Structure-function relationships of the Mre11 protein in the control of DNA end bridging and processing. <i>Current Genetics</i> , <b>2019</b> , 65, 11-16	2.9	8
18	The Mec1p and Tel1p checkpoint kinases allow humanized yeast to tolerate chronic telomere dysfunctions by suppressing telomere fusions. <i>DNA Repair</i> , <b>2009</b> , 8, 209-18	4.3	8
17	How do cells sense DNA lesions?. <i>Biochemical Society Transactions</i> , <b>2020</b> , 48, 677-691	5.1	7
16	The Rad53-Spt21 and Tel1 axes couple glucose tolerance to histone dosage and subtelomeric silencing. <i>Nature Communications</i> , <b>2020</b> , 11, 4154	17.4	7
15	The 9-1-1 Complex Controls Mre11 Nuclease and Checkpoint Activation during Short-Range Resection of DNA Double-Strand Breaks. <i>Cell Reports</i> , <b>2020</b> , 33, 108287	10.6	6
14	Regulation of telomere metabolism by the RNA processing protein Xrn1. <i>Nucleic Acids Research</i> , <b>2017</b> , 45, 3860-3874	20.1	5
13	Uncoupling Sae2 Functions in Downregulation of Tel1 and Rad53 Signaling Activities. <i>Genetics</i> , <b>2019</b> , 211, 515-530	4	5

12	Telomere uncapping at the crossroad between cell cycle arrest and carcinogenesis. <i>Molecular and Cellular Oncology</i> , <b>2014</b> , 1, e29901	1.2	4
11	Sae2 and Rif2 regulate MRX endonuclease activity at DNA double-strand breaks in opposite manners. <i>Cell Reports</i> , <b>2021</b> , 34, 108906	10.6	4
10	The RNA binding protein Npl3 promotes resection of DNA double-strand breaks by regulating the levels of Exo1. <i>Nucleic Acids Research</i> , <b>2017</b> , 45, 6530-6545	20.1	3
9	Local unwinding of double-strand DNA ends by the MRX complex promotes Exo1 processing activity. <i>Molecular and Cellular Oncology</i> , <b>2018</b> , 5, e1511208	1.2	3
8	Dpb4 promotes resection of DNA double-strand breaks and checkpoint activation by acting in two different protein complexes. <i>Nature Communications</i> , <b>2021</b> , 12, 4750	17.4	3
7	Resection of a DNA Double-Strand Break by Alkaline Gel Electrophoresis and Southern Blotting. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2153, 33-45	1.4	3
6	Tel1/ATM Signaling to the Checkpoint Contributes to Replicative Senescence in the Absence of Telomerase. <i>Genetics</i> , <b>2019</b> , 213, 411-429	4	2
5	The chromatin remodeler Chd1 supports MRX and Exo1 functions in resection of DNA double-strand breaks. <i>PLoS Genetics</i> , <b>2021</b> , 17, e1009807	6	2
4	Analysis of De Novo Telomere Addition by Southern Blot. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1672, 363-373	1.4	1
3	DNA binding modes influence Rap1 activity in the regulation of telomere length and MRX functions at DNA ends. <i>Nucleic Acids Research</i> , <b>2020</b> , 48, 2424-2441	20.1	1
2	The regulation of the DNA damage response at telomeres: focus on kinases. <i>Biochemical Society Transactions</i> , <b>2021</b> , 49, 933-943	5.1	1
1	Interplay between Sae2 and Rif2 in the regulation of Mre11-Rad50 activities at DNA ends. <i>Current Opinion in Genetics and Development</i> , <b>2021</b> , 71, 72-77	4.9	0