Maria Pia Longhese

List of Publications by Year in Descending Order

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	Sae2 and Rif2 regulate MRX endonuclease activity at DNA double-strand breaks in opposite manners. *Cell Reports*, **2021**, 34, 108906	10.6	4
82	The regulation of the DNA damage response at telomeres: focus on kinases. *Biochemical Society Transactions*, **2021**, 49, 933-943	5.1	1
81	Dpb4 promotes resection of DNA double-strand breaks and checkpoint activation by acting in two different protein complexes. *Nature Communications*, **2021**, 12, 4750	17.4	3
80	The chromatin remodeler Chd1 supports MRX and Exo1 functions in resection of DNA double-strand breaks. *PLoS Genetics*, **2021**, 17, e1009807	6	2
79	Interplay between Sae2 and Rif2 in the regulation of Mre11-Rad50 activities at DNA ends. *Current Opinion in Genetics and Development*, **2021**, 71, 72-77	4.9	0
78	Resection of a DNA Double-Strand Break by Alkaline Gel Electrophoresis and Southern Blotting. *Methods in Molecular Biology*, **2021**, 2153, 33-45	1.4	3
77	The 9-1-1 Complex Controls Mre11 Nuclease and Checkpoint Activation during Short-Range Resection of DNA Double-Strand Breaks. *Cell Reports*, **2020**, 33, 108287	10.6	6
76	Functional and structural insights into the MRX/MRN complex, a key player in recognition and repair of DNA double-strand breaks. *Computational and Structural Biotechnology Journal*, **2020**, 18, 1137-1152	6.8	19
75	How do cells sense DNA lesions?. *Biochemical Society Transactions*, **2020**, 48, 677-691	5.1	7
74	DNA binding modes influence Rap1 activity in the regulation of telomere length and MRX functions at DNA ends. *Nucleic Acids Research*, **2020**, 48, 2424-2441	20.1	1
73	The Rad53-Spt21 and Tel1 axes couple glucose tolerance to histone dosage and subtelomeric silencing. *Nature Communications*, **2020**, 11, 4154	17.4	7
72	Processing of DNA Double-Strand Breaks by the MRX Complex in a Chromatin Context. *Frontiers in Molecular Biosciences*, **2019**, 6, 43	5.6	14
71	Uncoupling Sae2 Functions in Downregulation of Tel1 and Rad53 Signaling Activities. *Genetics*, **2019**, 211, 515-530	4	5
70	Structure-function relationships of the Mre11 protein in the control of DNA end bridging and processing. *Current Genetics*, **2019**, 65, 11-16	2.9	8
69	The ATP-bound conformation of the Mre11-Rad50 complex is essential for Tel1/ATM activation. *Nucleic Acids Research*, **2019**, 47, 3550-3567	20.1	26
68	Tel1/ATM Signaling to the Checkpoint Contributes to Replicative Senescence in the Absence of Telomerase. *Genetics*, **2019**, 213, 411-429	4	2
67	Structurally distinct Mre11 domains mediate MRX functions in resection, end-tethering and DNA damage resistance. *Nucleic Acids Research*, **2018**, 46, 2990-3008	20.1	20

66	Rad9/53BP1 protects stalled replication forks from degradation in Mec1/ATR-defective cells. *EMBO Reports*, **2018**, 19, 351-367	6.5	16
65	Analysis of De Novo Telomere Addition by Southern Blot. *Methods in Molecular Biology*, **2018**, 1672, 363-373	1.4	1
64	Tel1/ATM prevents degradation of replication forks that reverse after topoisomerase poisoning. *EMBO Reports*, **2018**, 19,	6.5	15
63	The MRX complex regulates Exo1 resection activity by altering DNA end structure. *EMBO Journal*, **2018**, 37,	13	16
62	Processing of DNA Ends in the Maintenance of Genome Stability. *Frontiers in Genetics*, **2018**, 9, 390	4.5	28
61	Local unwinding of double-strand DNA ends by the MRX complex promotes Exo1 processing activity. *Molecular and Cellular Oncology*, **2018**, 5, e1511208	1.2	3
60	The RNA binding protein Npl3 promotes resection of DNA double-strand breaks by regulating the levels of Exo1. *Nucleic Acids Research*, **2017**, 45, 6530-6545	20.1	3
59	Regulation of telomere metabolism by the RNA processing protein Xrn1. *Nucleic Acids Research*, **2017**, 45, 3860-3874	20.1	5
58	PP2A Controls Genome Integrity by Integrating Nutrient-Sensing and Metabolic Pathways with the DNA Damage Response. *Molecular Cell*, **2017**, 67, 266-281.e4	17.6	17
57	Tel1 and Rif2 Regulate MRX Functions in End-Tethering and Repair of DNA Double-Strand Breaks. *PLoS Biology*, **2016**, 14, e1002387	9.7	33
56	Coupling end resection with the checkpoint response at DNA double-strand breaks. *Cellular and Molecular Life Sciences*, **2016**, 73, 3655-63	10.3	26
55	Sae2 Function at DNA Double-Strand Breaks Is Bypassed by Dampening Tel1 or Rad53 Activity. *PLoS Genetics*, **2015**, 11, e1005685	6	39
54	RNA-processing proteins regulate Mec1/ATR activation by promoting generation of RPA-coated ssDNA. *EMBO Reports*, **2015**, 16, 221-31	6.5	27
53	Escape of Sgs1 from Rad9 inhibition reduces the requirement for Sae2 and functional MRX in DNA end resection. *EMBO Reports*, **2015**, 16, 351-61	6.5	41
52	Resection is responsible for loss of transcription around a double-strand break in Saccharomyces cerevisiae. *ELife*, **2015**, 4,	8.9	22
51	Saccharomyces cerevisiae Rif1 cooperates with MRX-Sae2 in promoting DNA-end resection. *EMBO Reports*, **2014**, 15, 695-704	6.5	19
50	Irreparable telomeric DNA damage and persistent DDR signalling as a shared causative mechanism of cellular senescence and ageing. *Current Opinion in Genetics and Development*, **2014**, 26, 89-95	4.9	76
49	Telomere uncapping at the crossroad between cell cycle arrest and carcinogenesis. *Molecular and Cellular Oncology*, **2014**, 1, e29901	1.2	4

48	Mec1/ATR regulates the generation of single-stranded DNA that attenuates Tel1/ATM signaling at DNA ends. *EMBO Journal*, **2014**, 33, 198-216	13	47
47	Telomere-end processing: mechanisms and regulation. *Chromosoma*, **2013**, 123, 57	2.8	22
46	Interplays between ATM/Tel1 and ATR/Mec1 in sensing and signaling DNA double-strand breaks. *DNA Repair*, **2013**, 12, 791-9	4.3	74
45	Regulation of the DNA damage response by cyclin-dependent kinases. *Journal of Molecular Biology*, **2013**, 425, 4756-66	6.5	54
44	Tbf1 and Vid22 promote resection and non-homologous end joining of DNA double-strand break ends. *EMBO Journal*, **2013**, 32, 275-89	13	20
43	G(1)/S and G(2)/M cyclin-dependent kinase activities commit cells to death in the absence of the S-phase checkpoint. *Molecular and Cellular Biology*, **2012**, 32, 4971-85	4.8	9
42	Telomeric DNA damage is irreparable and causes persistent DNA-damage-response activation. *Nature Cell Biology*, **2012**, 14, 355-65	23.4	511
41	A balance between Tel1 and Rif2 activities regulates nucleolytic processing and elongation at telomeres. *Molecular and Cellular Biology*, **2012**, 32, 1604-17	4.8	36
40	The role of shelterin in maintaining telomere integrity. *Frontiers in Bioscience - Landmark*, **2012**, 17, 1715-28	2.8	15
39	Rif1 supports the function of the CST complex in yeast telomere capping. *PLoS Genetics*, **2011**, 7, e1002024	6	49
38	Distinct Cdk1 requirements during single-strand annealing, noncrossover, and crossover recombination. *PLoS Genetics*, **2011**, 7, e1002263	6	30
37	Mechanisms and regulation of DNA end resection. *EMBO Journal*, **2010**, 29, 2864-74	13	72
36	The MRX complex plays multiple functions in resection of Yku- and Rif2-protected DNA ends. *PLoS ONE*, **2010**, 5, e14142	3.7	36
35	Dephosphorylation of gamma H2A by Glc7/protein phosphatase 1 promotes recovery from inhibition of DNA replication. *Molecular and Cellular Biology*, **2010**, 30, 131-45	4.8	42
34	Processing of meiotic DNA double strand breaks requires cyclin-dependent kinase and multiple nucleases. *Journal of Biological Chemistry*, **2010**, 285, 11628-37	5.4	41
33	Shelterin-like proteins and Yku inhibit nucleolytic processing of Saccharomyces cerevisiae telomeres. *PLoS Genetics*, **2010**, 6, e1000966	6	81
32	The Mec1p and Tel1p checkpoint kinases allow humanized yeast to tolerate chronic telomere dysfunctions by suppressing telomere fusions. *DNA Repair*, **2009**, 8, 209-18	4.3	8
31	DNA double-strand breaks in meiosis: checking their formation, processing and repair. *DNA Repair*, **2009**, 8, 1127-38	4.3	61

30	Multiple pathways regulate 3Voverhang generation at S. cerevisiae telomeres. *Molecular Cell*, **2009**, 35, 70-81	17.6	104
29	The Yku70-Yku80 complex contributes to regulate double-strand break processing and checkpoint activation during the cell cycle. *EMBO Reports*, **2008**, 9, 810-8	6.5	108
28	Surveillance mechanisms monitoring chromosome breaks during mitosis and meiosis. *DNA Repair*, **2008**, 7, 545-57	4.3	12
27	DNA damage response at functional and dysfunctional telomeres. *Genes and Development*, **2008**, 22, 125-40	12.6	127
26	Role of the Saccharomyces cerevisiae Rad53 checkpoint kinase in signaling double-strand breaks during the meiotic cell cycle. *Molecular and Cellular Biology*, **2008**, 28, 4480-93	4.8	34
25	Dominant TEL1-hy mutations compensate for Mec1 lack of functions in the DNA damage response. *Molecular and Cellular Biology*, **2008**, 28, 358-75	4.8	25
24	Dual role for Saccharomyces cerevisiae Tel1 in the checkpoint response to double-strand breaks. *EMBO Reports*, **2007**, 8, 380-7	6.5	85
23	MRX-dependent DNA damage response to short telomeres. *Molecular Biology of the Cell*, **2007**, 18, 3047-58	5.5	42
22	Functional and physical interactions between yeast 14-3-3 proteins, acetyltransferases, and deacetylases in response to DNA replication perturbations. *Molecular and Cellular Biology*, **2007**, 27, 3266-81	4.8	20
21	Budding Yeast Sae2 is an In Vivo Target of the Mec1 and Tel1 Checkpoint Kinases During Meiosis. *Cell Cycle*, **2006**, 5, 1549-59	4.7	65
20	The Saccharomyces cerevisiae 14-3-3 proteins are required for the G1/S transition, actin cytoskeleton organization and cell wall integrity. *Genetics*, **2006**, 173, 661-75	4	25
19	The cellular response to chromosome breakage. *Molecular Microbiology*, **2006**, 60, 1099-108	4.1	37
18	The Saccharomyces cerevisiae Sae2 protein negatively regulates DNA damage checkpoint signalling. *EMBO Reports*, **2006**, 7, 212-8	6.5	112
17	Telomeres and DNA damage checkpoints. *Biochimie*, **2005**, 87, 613-24	4.6	24
16	The Saccharomyces cerevisiae Sae2 protein promotes resection and bridging of double strand break ends. *Journal of Biological Chemistry*, **2005**, 280, 38631-8	5.4	150
15	A Tel1/MRX-dependent checkpoint inhibits the metaphase-to-anaphase transition after UV irradiation in the absence of Mec1. *Molecular and Cellular Biology*, **2004**, 24, 10126-44	4.8	37
14	The functions of budding yeast Sae2 in the DNA damage response require Mec1- and Tel1-dependent phosphorylation. *Molecular and Cellular Biology*, **2004**, 24, 4151-65	4.8	101
13	RPA regulates telomerase action by providing Est1p access to chromosome ends. *Nature Genetics*, **2004**, 36, 46-54	36.3	123

12	Physical and functional interactions between nucleotide excision repair and DNA damage checkpoint. *EMBO Journal*, **2004**, 23, 429-38	13	96
11	The S-phase checkpoint and its regulation in Saccharomyces cerevisiae. *Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis*, **2003**, 532, 41-58	3.3	57
10	A central role for DNA replication forks in checkpoint activation and response. *Molecular Cell*, **2003**, 11, 1323-36	17.6	334
9	Sudden telomere lengthening triggers a Rad53-dependent checkpoint in Saccharomyces cerevisiae. *Molecular Biology of the Cell*, **2003**, 14, 3126-43	3.5	20
8	Functions of Saccharomyces cerevisiae 14-3-3 proteins in response to DNA damage and to DNA replication stress. *Genetics*, **2003**, 165, 1717-32	4	26
7	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. *Genes and Development*, **2001**, 15, 1845-58	12.6	41
6	Characterization of mec1 kinase-deficient mutants and of new hypomorphic mec1 alleles impairing subsets of the DNA damage response pathway. *Molecular and Cellular Biology*, **2001**, 21, 3913-25	4.8	96
5	Checkpoint proteins influence telomeric silencing and length maintenance in budding yeast. *Genetics*, **2000**, 155, 1577-91	4	60
4	The checkpoint protein Ddc2, functionally related to S. pombe Rad26, interacts with Mec1 and is regulated by Mec1-dependent phosphorylation in budding yeast. *Genes and Development*, **2000**, 14, 2046-2059	12.6	121
3	Interaction between Set1p and checkpoint protein Mec3p in DNA repair and telomere functions. *Nature Genetics*, **1999**, 21, 204-8	36.3	90
2	Mec1p is essential for phosphorylation of the yeast DNA damage checkpoint protein Ddc1p, which physically interacts with Mec3p. *EMBO Journal*, **1998**, 17, 4199-209	13	113
1	Mutations in the gene encoding the 34 kDa subunit of yeast replication protein A cause defective S phase progression. *Journal of Molecular Biology*, **1995**, 254, 595-607	6.5	53