Marco Foiani

List of Publications by Citations

109 papers	11,668 citations	52 h-index	108 g-index
115 ext. papers	12,830 ext. citations	19.1 avg, IF	6.3 L-index

#	Paper	IF	Citations
109	Regulation of DNA repair throughout the cell cycle. *Nature Reviews Molecular Cell Biology*, **2008**, 9, 297-308	48.7	874
108	Fork reversal and ssDNA accumulation at stalled replication forks owing to checkpoint defects. *Science*, **2002**, 297, 599-602	33.3	694
107	The DNA replication checkpoint response stabilizes stalled replication forks. *Nature*, **2001**, 412, 557-61	50.4	633
106	Maintaining genome stability at the replication fork. *Nature Reviews Molecular Cell Biology*, **2010**, 11, 208-19	48.7	608
105	DNA end resection, homologous recombination and DNA damage checkpoint activation require CDK1. *Nature*, **2004**, 431, 1011-7	50.4	585
104	Srs2 and Sgs1-Top3 suppress crossovers during double-strand break repair in yeast. *Cell*, **2003**, 115, 401-11	56.2	489
103	Multiple mechanisms control chromosome integrity after replication fork uncoupling and restart at irreparable UV lesions. *Molecular Cell*, **2006**, 21, 15-27	17.6	462
102	Activation of Rad53 kinase in response to DNA damage and its effect in modulating phosphorylation of the lagging strand DNA polymerase. *EMBO Journal*, **1999**, 18, 6561-72	13	320
101	HDACs link the DNA damage response, processing of double-strand breaks and autophagy. *Nature*, **2011**, 471, 74-79	50.4	305
100	Recovery from checkpoint-mediated arrest after repair of a double-strand break requires Srs2 helicase. *Molecular Cell*, **2002**, 10, 373-85	17.6	279
99	Spk1/Rad53 is regulated by Mec1-dependent protein phosphorylation in DNA replication and damage checkpoint pathways. *Genes and Development*, **1996**, 10, 395-406	12.6	265
98	Rad51-dependent DNA structures accumulate at damaged replication forks in sgs1 mutants defective in the yeast ortholog of BLM RecQ helicase. *Genes and Development*, **2005**, 19, 339-50	12.6	256
97	Ubc9- and mms21-mediated sumoylation counteracts recombinogenic events at damaged replication forks. *Cell*, **2006**, 127, 509-22	56.2	243
96	Regulation of Saccharomyces Rad53 checkpoint kinase during adaptation from DNA damage-induced G2/M arrest. *Molecular Cell*, **2001**, 7, 293-300	17.6	231
95	G-quadruplex-induced instability during leading-strand replication. *EMBO Journal*, **2011**, 30, 4033-46	13	219
94	Exo1 processes stalled replication forks and counteracts fork reversal in checkpoint-defective cells. *Molecular Cell*, **2005**, 17, 153-9	17.6	212
93	SUMOylation regulates Rad18-mediated template switch. *Nature*, **2008**, 456, 915-20	50.4	208

92	The DNA damage response during DNA replication. *Current Opinion in Cell Biology*, **2005**, 17, 568-75	9	193
91	GCD2, a translational repressor of the GCN4 gene, has a general function in the initiation of protein synthesis in Saccharomyces cerevisiae. *Molecular and Cellular Biology*, **1991**, 11, 3203-16	4.8	173
90	The replication checkpoint protects fork stability by releasing transcribed genes from nuclear pores. *Cell*, **2011**, 146, 233-46	56.2	169
89	The checkpoint response to replication stress. *DNA Repair*, **2009**, 8, 1038-46	4.3	160
88	Senataxin associates with replication forks to protect fork integrity across RNA-polymerase-II-transcribed genes. *Cell*, **2012**, 151, 835-846	56.2	154
87	Genome-wide function of THO/TREX in active genes prevents R-loop-dependent replication obstacles. *EMBO Journal*, **2011**, 30, 3106-19	13	154
86	ATM and ATR signaling at a glance. *Journal of Cell Science*, **2015**, 128, 4255-62	5.3	148
85	Unique pattern of ET-743 activity in different cellular systems with defined deficiencies in DNA-repair pathways. *International Journal of Cancer*, **2001**, 92, 583-8	7.5	143
84	Checkpoint-mediated control of replisome-fork association and signalling in response to replication pausing. *Oncogene*, **2004**, 23, 1206-13	9.2	139
83	Preventing replication stress to maintain genome stability: resolving conflicts between replication and transcription. *Molecular Cell*, **2012**, 45, 710-8	17.6	135
82	DNA damage checkpoint in budding yeast. *EMBO Journal*, **1998**, 17, 5525-8	13	129
81	ATR mediates a checkpoint at the nuclear envelope in response to mechanical stress. *Cell*, **2014**, 158, 633-46	56.2	125
80	Complex formation by positive and negative translational regulators of GCN4. *Molecular and Cellular Biology*, **1991**, 11, 3217-28	4.8	125
79	Top1- and Top2-mediated topological transitions at replication forks ensure fork progression and stability and prevent DNA damage checkpoint activation. *Genes and Development*, **2007**, 21, 1921-36	12.6	118
78	Replication termination at eukaryotic chromosomes is mediated by Top2 and occurs at genomic loci containing pausing elements. *Molecular Cell*, **2010**, 39, 595-605	17.6	115
77	Combination of Hypoglycemia and Metformin Impairs Tumor Metabolic Plasticity and Growth by Modulating the PP2A-GSK3β-MCL-1 Axis. *Cancer Cell*, **2019**, 35, 798-815.e5	24.3	108
76	Targeting Cancer Metabolism: Dietary and Pharmacologic Interventions. *Cancer Discovery*, **2016**, 6, 1315-1333	24.4	107
75	Branch migrating sister chromatid junctions form at replication origins through Rad51/Rad52-independent mechanisms. *Molecular Cell*, **2003**, 12, 1499-510	17.6	102

74	Visualization of recombination-mediated damage bypass by template switching. *Nature Structural and Molecular Biology*, **2014**, 21, 884-92	17.6	101
73	Interplay of replication checkpoints and repair proteins at stalled replication forks. *DNA Repair*, **2007**, 6, 994-1003	4.3	96
72	Replicon dynamics, dormant origin firing, and terminal fork integrity after double-strand break formation. *Cell*, **2009**, 137, 247-58	56.2	92
71	Genome-organizing factors Top2 and Hmo1 prevent chromosome fragility at sites of S phase transcription. *Cell*, **2009**, 138, 870-84	56.2	92
70	The Rad53 signal transduction pathway: Replication fork stabilization, DNA repair, and adaptation. *Experimental Cell Research*, **2006**, 312, 2654-9	4.2	92
69	DNA damage checkpoints and DNA replication controls in Saccharomyces cerevisiae. *Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis*, **2000**, 451, 187-96	3.3	90
68	A role for DNA primase in coupling DNA replication to DNA damage response. *EMBO Journal*, **1997**, 16, 639-50	13	88
67	The Saccharomyces cerevisiae Esc2 and Smc5-6 proteins promote sister chromatid junction-mediated intra-S repair. *Molecular Biology of the Cell*, **2009**, 20, 1671-82	3.5	85
66	Role of homologous recombination in trabectedin-induced DNA damage. *European Journal of Cancer*, **2008**, 44, 609-18	7.5	81
65	Srs2 and Sgs1 DNA helicases associate with Mre11 in different subcomplexes following checkpoint activation and CDK1-mediated Srs2 phosphorylation. *Molecular and Cellular Biology*, **2005**, 25, 5738-51	4.8	76
64	A single essential gene, PRI2, encodes the large subunit of DNA primase in Saccharomyces cerevisiae. *Molecular and Cellular Biology*, **1989**, 9, 3081-7	4.8	66
63	Evidence for a Cdc6p-independent mitotic resetting event involving DNA polymerase alpha. *EMBO Journal*, **1998**, 17, 4139-46	13	63
62	Signal transduction: how rad53 kinase is activated. *Current Biology*, **2005**, 15, R769-71	6.3	61
61	The Saccharomyces recombination protein Tid1p is required for adaptation from G2/M arrest induced by a double-strand break. *Current Biology*, **2001**, 11, 1053-7	6.3	60
60	A meiosis-specific protein kinase, Ime2, is required for the correct timing of DNA replication and for spore formation in yeast meiosis. *Molecular Genetics and Genomics*, **1996**, 253, 278-88		58
59	Sgs1 function in the repair of DNA replication intermediates is separable from its role in homologous recombinational repair. *EMBO Journal*, **2009**, 28, 915-25	13	55
58	Beclin 1 restrains tumorigenesis through Mcl-1 destabilization in an autophagy-independent reciprocal manner. *Nature Communications*, **2014**, 5, 5637	17.4	54
57	De novo synthesis of budding yeast DNA polymerase alpha and POL1 transcription at the G1/S boundary are not required for entrance into S phase. *Proceedings of the National Academy of Sciences of the United States of America*, **1993**, 90, 10519-23	11.5	50

56	Guanine nucleotide exchange factor for eukaryotic translation initiation factor 2 in Saccharomyces cerevisiae: interactions between the essential subunits GCD2, GCD6, and GCD7 and the regulatory subunit GCN3. *Molecular and Cellular Biology*, **1993**, 13, 4618-31	4.8	48
55	Yeast Rad52 and Rad51 recombination proteins define a second pathway of DNA damage assessment in response to a single double-strand break. *Molecular and Cellular Biology*, **2003**, 23, 8913-23	4.8	45
54	The DNA polymerase alpha-primase complex: multiple functions and interactions. *Scientific World Journal, The*, **2003**, 3, 21-33	2.2	44
53	DNA damage causes rapid accumulation of phosphoinositides for ATR signaling. *Nature Communications*, **2017**, 8, 2118	17.4	41
52	Rad53-Mediated Regulation of Rrm3 and Pif1 DNA Helicases Contributes to Prevention of Aberrant Fork Transitions under Replication Stress. *Cell Reports*, **2015**, 13, 80-92	10.6	40
51	RecQ helicases queuing with Srs2 to disrupt Rad51 filaments and suppress recombination. *Genes and Development*, **2007**, 21, 3019-26	12.6	40
50	Template switching: from replication fork repair to genome rearrangements. *Cell*, **2007**, 131, 1228-30	56.2	39
49	Acetylation: a novel link between double-strand break repair and autophagy. *Cancer Research*, **2012**, 72, 1332-5	10.1	36
48	Methods to study replication fork collapse in budding yeast. *Methods in Enzymology*, **2006**, 409, 442-62	1.7	36
47	Berberine in the treatment of metabolism-related chronic diseases: A drug cloud (dCloud) effect to target multifactorial disorders. *Pharmacology & Therapeutics*, **2020**, 209, 107496	13.9	31
46	Preserving the genome by regulating chromatin association with the nuclear envelope. *Trends in Cell Biology*, **2012**, 22, 465-73	18.3	31
45	Molecular pathways: old drugs define new pathways: non-histone acetylation at the crossroads of the DNA damage response and autophagy. *Clinical Cancer Research*, **2012**, 18, 2436-42	12.9	31
44	Major Roles for Pyrimidine Dimers, Nucleotide Excision Repair, and ATR in the Alternative Splicing Response to UV Irradiation. *Cell Reports*, **2017**, 18, 2868-2879	10.6	29
43	High molecular weight immunoreactive basic fibroblast growth factor-like proteins in rat pituitary and brain. *Neuroscience Letters*, **1988**, 90, 308-13	3.3	29
42	A lethal combination for cancer cells: synthetic lethality screenings for drug discovery. *European Journal of Cancer*, **2010**, 46, 2889-95	7.5	27
41	Negative supercoil at gene boundaries modulates gene topology. *Nature*, **2020**, 577, 701-705	50.4	26
40	Dormant origins and fork protection mechanisms rescue sister forks arrested by transcription. *Nucleic Acids Research*, **2018**, 46, 1227-1239	20.1	24
39	Phosphorylation of the DNA polymerase alpha-primase B subunit is dependent on its association with the p180 polypeptide. *Journal of Biological Chemistry*, **1996**, 271, 8661-6	5.4	23

38	ATR-mediated regulation of nuclear and cellular plasticity. *DNA Repair*, **2016**, 44, 143-150	4.3	22
37	Dna2 processes behind the fork long ssDNA flaps generated by Pif1 and replication-dependent strand displacement. *Nature Communications*, **2018**, 9, 4830	17.4	18
36	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
35	Mechanism of initiation of in vitro DNA synthesis by the immunopurified complex between yeast DNA polymerase I and DNA primase. *FEBS Journal*, **1986**, 161, 435-40		17
34	Nuclear envelope and chromatin, lock and key of genome integrity. *International Review of Cell and Molecular Biology*, **2015**, 317, 267-330	6	16
33	The yeast DNA polymerase-primase complex: genes and proteins. *Biochimica Et Biophysica Acta Gene Regulatory Mechanisms*, **1988**, 951, 268-73		16
32	Fasting-mimicking diet is safe and reshapes metabolism and antitumor immunity in cancer patients. *Cancer Discovery*, **2021**,	24.4	15
31	ATR is essential for preservation of cell mechanics and nuclear integrity during interstitial migration. *Nature Communications*, **2020**, 11, 4828	17.4	15
30	ChIP-on-chip analysis of DNA topoisomerases. *Methods in Molecular Biology*, **2009**, 582, 103-18	1.4	14
29	Characterization of the BUD31 gene of Saccharomyces cerevisiae. *Biochemical and Biophysical Research Communications*, **2004**, 320, 1342-50	3.4	13
28	A dominant-negative MEC3 mutant uncovers new functions for the Rad17 complex and Tel1. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 12997-3002	11.5	12
27	Dna2 offers support for stalled forks. *Cell*, **2012**, 149, 1181-3	56.2	10
26	Mechanisms Controlling the Integrity of Replicating Chromosomes in Budding Yeast. *Cell Cycle*, **2003**, 2, 563-566	4.7	10
25	Leaping forks at inverted repeats. *Genes and Development*, **2010**, 24, 5-9	12.6	9
24	Impact of systemic and tumor lipid metabolism on everolimus efficacy in advanced pancreatic neuroendocrine tumors (pNETs). *International Journal of Cancer*, **2019**, 144, 1704-1712	7.5	9
23	Coordinating Replication with Transcription. *Advances in Experimental Medicine and Biology*, **2017**, 1042, 455-487	3.6	8
22	Golgi feels DNAs pain. *Cell*, **2014**, 156, 392-3	56.2	7
21	The Rad53-Spt21 and Tel1 axes couple glucose tolerance to histone dosage and subtelomeric silencing. *Nature Communications*, **2020**, 11, 4154	17.4	7

20	A Mad2-Mediated Translational Regulatory Mechanism Promoting S-Phase Cyclin Synthesis Controls Origin Firing and Survival to Replication Stress. *Molecular Cell*, **2018**, 70, 628-638.e5	17.6	7
19	The double life of Holliday junctions. *Cell Research*, **2010**, 20, 611-3	24.7	6
18	Cohesion by topology: sister chromatids interlocked by DNA. *Genes and Development*, **2008**, 22, 2297-301	12.6	6
17	Recombination at collapsed replication forks: the payoff for survival. *Molecular Cell*, **2005**, 18, 614-5	17.6	4
16	Initiation of DNA replication: a new hint from archaea. *Cell*, **2004**, 116, 3-4	56.2	4
15	An Error-Prone Polymerase in the Fight against Cancer. *Cell*, **2019**, 176, 1241-1243	56.2	2
14	A model of DNA damage response activation at stalled replication forks by SPRTN. *Nature Communications*, **2019**, 10, 5671	17.4	2
13	A rapid method to visualize human mitochondrial DNA replication through rotary shadowing and transmission electron microscopy. *Nucleic Acids Research*, **2021**, 49, e121	20.1	2
12	Palmdelphin Regulates Nuclear Resilience to Mechanical Stress in the Endothelium. *Circulation*, **2021**, 144, 1629-1645	16.7	1
11	The human nucleoporin Tpr protects cells from RNA-mediated replication stress. *Nature Communications*, **2021**, 12, 3937	17.4	1
10	Endosomal trafficking and DNA damage checkpoint kinases dictate survival to replication stress by regulating amino acid uptake and protein synthesis. *Developmental Cell*, **2021**, 56, 2607-2622.e6	10.2	1
9	Ultrastructure of fibroblasts from patients with progeria. *Ultrastructural Pathology*, **2017**, 41, 108-109	1.3	
8	Ubiquitilated Fanconi ID complex embraces DNA. *Cell Research*, **2020**, 30, 554-555	24.7	
7	Dangerous liaisons: MYCN meets condensins. *Cell Cycle*, **2014**, 13, 1225-6	4.7	
6	Replication forks and replication checkpoints in repair **2006**, 201-219		
5	Budding Yeast DNA Damage Checkpoint: A Signal Transduction-Mediated Surveillance System **2003**, 197-202		
4	Replication forks and replication checkpoints in repair. *Topics in Current Genetics*, **2007**, 201-219		
3	Vps30/Atg6/BECN1 at the crossroads between cell metabolism and DNA damage response.. *Autophagy*, **2022**, 1-3	10.2	

2	The transcription factor PREP1(PKNOX1) regulates nuclear stiffness, the expression of LINC complex proteins and mechanotransduction.. *Communications Biology*, **2022**, 5, 456	6.7
1	Topology of RNA:DNA Hybrids and R-Loops in Yeast. *Methods in Molecular Biology*, **2022**, 317-328	1.4