Marco Muzi-Falconi

List of Publications by Year
in descending order

73	4,075	147801 31	118850 62
papers	citations	h-index	g-index

74	74	74	4023
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The DNA replication checkpoint response stabilizes stalled replication forks. Nature, 2001, 412, 557-561.	27.8	693
2	Mutations in the mitochondrial protease gene AFG3L2 cause dominant hereditary ataxia SCA28. Nature Genetics, 2010, 42, 313-321.	21.4	291
3	The DNA Damage Checkpoint Response Requires Histone H2B Ubiquitination by Rad6-Bre1 and H3 Methylation by Dot1. Journal of Biological Chemistry, 2005, 280, 9879-9886.	3.4	249
4	Regulation of the replication initiator protein p65^{cdc18} by CDKâ€‰phosphorylation. Genes and Development, 1997, 11, 2767-2779.	5.9	161
5	Histone methyltransferase Dot1 and Rad9 inhibit single-stranded DNA accumulation at DSBs and uncapped telomeres. EMBO Journal, 2008, 27, 1502-12.	7.8	159
6	RNase H and Postreplication Repair Protect Cells from Ribonucleotides Incorporated in DNA. Molecular Cell, 2012, 45, 99-110.	9.7	153
7	DNA damage checkpoint in budding yeast. EMBO Journal, 1998, 17, 5525-5528.	7.8	145
8	Ribonucleotides Misincorporated into DNA Act as Strand-Discrimination Signals in Eukaryotic Mismatch Repair. Molecular Cell, 2013, 50, 323-332.	9.7	139
9	cdc18+ regulates initiation of DNA replication in Schizosaccharomyces pombe.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 1566-1570.	7.1	124
10	Physical and functional interactions between nucleotide excision repair and DNA damage checkpoint. EMBO Journal, 2004, 23, 429-438.	7.8	112
11	DNA damage checkpoints and DNA replication controls in Saccharomyces cerevisiae. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2000, 451, 187-196.	1.0	110
12	Phosphorylation of the Budding Yeast 9-1-1 Complex Is Required for Dpb11 Function in the Full Activation of the UV-Induced DNA Damage Checkpoint. Molecular and Cellular Biology, 2008, 28, 4782-4793.	2.3	109
13	DNA nucleotide excision repair-dependent signaling to checkpoint activation. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 17325-17330.	7.1	107
14	The 9-1-1 Checkpoint Clamp Physically Interacts with Polî¶ and Is Partially Required for Spontaneous Polî¶-dependent Mutagenesis in Saccharomyces cerevisiae. Journal of Biological Chemistry, 2005, 280, 38657-38665.	3.4	104
15	Exo1 Competes with Repair Synthesis, Converts NER Intermediates to Long ssDNA Gaps, and Promotes Checkpoint Activation. Molecular Cell, 2010, 40, 50-62.	9.7	99
16	Orp1, a member of the Cdc18/Cdc6 family of S-phase regulators, is homologous to a component of the origin recognition complex.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 12475-12479.	7.1	98
17	Checkpoint mechanisms at the intersection between DNA damage and repair. DNA Repair, 2009, 8, 1055-1067.	2.8	82
18	Reduction of hRNase H2 activity in Aicardiâ€“GoutiÃ¨res syndrome cells leads to replication stress and genome instability. Human Molecular Genetics, 2015, 24, 649-658.	2.9	67

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19	Human exonuclease 1 connects nucleotide excision repair (NER) processing with checkpoint activation in response to UV irradiation. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 13647-13652.	7.1	64
20	Dynamics of Rad9 Chromatin Binding and Checkpoint Function Are Mediated by Its Dimerization and Are Cell Cycleâ€“Regulated by CDK1 Activity. PLoS Genetics, 2010, 6, e1001047.	3.5	59
21	The DNA Polymerase _-Primase Complex: Multiple Functions and Interactions. Scientific World Journal, The, 2003, 3, 21-33.	2.1	56
22	Nucleotide sequence and characterization of temperature-sensitive pol1 mutants of Saccharomyces cerevisiae. Gene, 1990, 90, 99-104.	2.2	54
23	Yeast Rev1 is cell cycle regulated, phosphorylated in response to DNA damage and its binding to chromosomes is dependent upon MEC1. DNA Repair, 2007, 6, 121-127.	2.8	53
24	Elevated Levels of the Polo Kinase Cdc5 Override the Mec1/ATR Checkpoint in Budding Yeast by Acting at Different Steps of the Signaling Pathway. PLoS Genetics, 2010, 6, e1000763.	3.5	49
25	One-step high-throughput assay for quantitative detection of Î²-galactosidase activity in intact Gram-negative bacteria, yeast, and mammalian cells. BioTechniques, 2006, 40, 433-440.	1.8	48
26	14-3-3 Proteins Regulate Exonuclease 1â€“Dependent Processing of Stalled Replication Forks. PLoS Genetics, 2011, 7, e1001367.	3.5	45
27	Sensing of Replication Stress and Mec1 Activation Act through Two Independent Pathways Involving the 9-1-1 Complex and DNA Polymerase Îµ. PLoS Genetics, 2011, 7, e1002022.	3.5	40
28	Exploring the pH Sensitivity of Poly(allylamine) Phosphate Supramolecular Nanocarriers for Intracellular siRNA Delivery. ACS Applied Materials & Interfaces, 2017, 9, 38242-38254.	8.0	38
29	DNA replication: Controlling initiation during the cell cycle. Current Biology, 1996, 6, 229-233.	3.9	33
30	Mind the gap: Keeping UV lesions in check. DNA Repair, 2011, 10, 751-759.	2.8	33
31	NER and DDR: Classical music with new instruments. Cell Cycle, 2012, 11, 668-674.	2.6	32
32	The ribonuclease DIS3 promotes let-7 miRNA maturation by degrading the pluripotency factor LIN28B mRNA. Nucleic Acids Research, 2015, 43, 5182-5193.	14.5	31
33	Alk1 and Alk2 are Two New Cell Cycle-Regulated Haspin-Like Proteins in Budding Yeast. Cell Cycle, 2006, 5, 1464-1471.	2.6	28
34	Exploring Quantitative Yeast Phenomics with Single-Cell Analysis of DNA Damage Foci. Cell Systems, 2016, 3, 264-277.e10.	6.2	26
35	Coordinated Activity of Y Family TLS Polymerases and EXO1 Protects Non-S Phase Cells from UV-Induced Cytotoxic Lesions. Molecular Cell, 2018, 70, 34-47.e4.	9.7	26
36	EXO1: A tightly regulated nuclease. DNA Repair, 2020, 93, 102929.	2.8	23

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37	Yeast Haspin Kinase Regulates Polarity Cues Necessary for Mitotic Spindle Positioning and Is Required to Tolerate Mitotic Arrest. Developmental Cell, 2013, 26, 483-495.	7.0	22
38	Novel DYT11 gene mutation in patients without dopaminergic deficit (SWEDD) screened for dystonia. Neurology, 2014, 83, 1155-1162.	1.1	22
39	Tau and DNA Damage in Neurodegeneration. Brain Sciences, 2020, 10, 946.	2.3	22
40	RNase H activities counteract a toxic effect of Polymerase Î· in cells replicating with depleted dNTP pools. Nucleic Acids Research, 2019, 47, 4612-4623.	14.5	21
41	One, No One, and One Hundred Thousand: The Many Forms of Ribonucleotides in DNA. International Journal of Molecular Sciences, 2020, 21, 1706.	4.1	17
42	The yeast DNA polymerase-primase complex: Genes and proteins. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1988, 951, 268-273.	2.4	16
43	Saccharomyces CDK1 Phosphorylates Rad53 Kinase in Metaphase, Influencing Cellular Morphogenesis. Journal of Biological Chemistry, 2009, 284, 32627-32634.	3.4	16
44	Physical and functional crosstalk between Fanconi anemia core components and the GINS replication complex. DNA Repair, 2011, 10, 149-158.	2.8	15
45	DNA decay and limited Rad53 activation after liquid holding of UV-treated nucleotide excision repair deficient S. cerevisiae cells. DNA Repair, 2004, 3, 1591-1599.	2.8	14
46	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, 12997-13002.	7.1	13
47	Mechanisms Controlling the Integrity of Replicating Chromosomes in Budding Yeast. Cell Cycle, 2003, 2, 563-566.	2.6	12
48	To trim or not to trim: Progression and control of DSB end resection. Cell Cycle, 2013, 12, 1848-1860.	2.6	12
49	Haspin regulates Ras localization to promote Cdc24-driven mitotic depolarization. Cell Discovery, 2020, 6, 42.	6.7	12
50	The Incorporation of Ribonucleotides Induces Structural and Conformational Changes in DNA. Biophysical Journal, 2017, 113, 1373-1382.	0.5	11
51	Overproduction and functional analysis of DNA primase subunits from yeast and mouse. Gene, 1992, 113, 199-205.	2.2	9
52	Non-Canonical CRL4A/4BCDT2 Interacts with RAD18 to Modulate Post Replication Repair and Cell Survival. PLoS ONE, 2013, 8, e60000.	2.5	8
53	Generation of three iPSC lines from fibroblasts of a patient with Aicardi GoutiÃ¨res Syndrome mutated in TREX1. Stem Cell Research, 2019, 41, 101580.	0.7	8
54	Roles and regulation of Haspin kinase and its impact on carcinogenesis. Cellular Signalling, 2022, 93, 110303.	3.6	8

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55	In vivo and in silico analysis of PCNA ubiquitylation in the activation of the Post Replication Repair pathway in S. cerevisiae. BMC Systems Biology, 2013, 7, 24.	3.0	7
56	A blooming resolvase at chromosomal fragile sites. Nature Cell Biology, 2013, 15, 883-885.	10.3	7
57	Phosphorylation of H3-Thr3 by Haspin Is Required for Primary Cilia Regulation. International Journal of Molecular Sciences, 2021, 22, 7753.	4.1	7
58	Mechanisms controlling the integrity of replicating chromosomes in budding yeast. Cell Cycle, 2003, 2, 564-7.	2.6	7
59	Establishment of three iPSC lines from fibroblasts of a patient with Aicardi GoutiÃ¨res syndrome mutated in RNaseH2B. Stem Cell Research, 2019, 41, 101620.	0.7	6
60	Correlation between Checkpoint Activation and in Vivo Assembly of the Yeast Checkpoint Complex Rad17-Mec3-Ddc1. Journal of Biological Chemistry, 2003, 278, 22303-22308.	3.4	5
61	Haspin Modulates the G2/M Transition Delay in Response to Polarization Failures in Budding Yeast. Frontiers in Cell and Developmental Biology, 2020, 8, 625717.	3.7	5
62	Measuring the Levels of Ribonucleotides Embedded in Genomic DNA. Methods in Molecular Biology, 2018, 1672, 319-327.	0.9	5
63	VID22counteracts G-quadruplex-induced genome instability. Nucleic Acids Research, 2021, 49, 12785-12804.	14.5	5
64	Study of UV-induced DNA Repair Factor Recruitment: Kinetics and Dynamics. Methods in Molecular Biology, 2018, 1672, 101-105.	0.9	4
65	Generation of three isogenic induced Pluripotent Stem Cell lines (iPSCs) from fibroblasts of a patient with Aicardi GoutiÃ¨res Syndrome carrying a c.2471G>A dominant mutation in IFIH1 gene. Stem Cell Research, 2019, 41, 101623.	0.7	4
66	gRASping Depolarization: Contribution of RAS GTPases to Mitotic Polarity Clusters Resolution. Frontiers in Cell and Developmental Biology, 2020, 8, 589993.	3.7	4
67	Checkpoint response to DNA damage. DNA Repair, 2009, 8, 973-973.	2.8	3
68	Characterization of Structural and Configurational Properties of DNA by Atomic Force Microscopy. Methods in Molecular Biology, 2018, 1672, 557-573.	0.9	1
69	Co-immunoprecipitation of human mitochondrial proteases AFG3L2 and paraplegin heterologously expressed in yeast cells. Protocol Exchange, 0, , .	0.3	1
70	Budding Yeast DNA Damage Checkpoint: A Signal Transduction-Mediated Surveillance System. , 2003, , 197-202.		1
71	Sometimes size does matter. European Journal of Cancer, 2003, 39, 1337-1338.	2.8	0
72	Replication | DNA Polymerase Î± â€“ Primase Complex: A Fundamental Element in the Maintenance of Genome Integrity. , 2021, , 71-79.		0

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73	Cell Cycle Checkpoints. , 2013, , 254-259.		0