Paul Russell

List of Publications by Year
in descending order

95	12,228	28242 55	39638 94
papers	citations	h-index	g-index

107	107	107	7085
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Negative regulation of mitosis by wee1+, a gene encoding a protein kinase homolog. Cell, 1987, 49, 559-567.	13.5	1,021
2	cdc25+ functions as an inducer in the mitotic control of fission yeast. Cell, 1986, 45, 145-153.	13.5	1,011
3	Nuclear localization of Cdc25 is regulated by DNA damage and a 14-3-3 protein. Nature, 1999, 397, 172-175.	13.7	570
4	Cdc25 Mitotic Inducer Targeted by Chk1 DNA Damage Checkpoint Kinase. Science, 1997, 277, 1495-1497.	6.0	515
5	Mus81-Eme1 Are Essential Components of a Holliday Junction Resolvase. Cell, 2001, 107, 537-548.	13.5	501
6	Cell-cycle control linked to extracellular environment by MAP kinase pathway in fission yeast. Nature, 1995, 378, 739-743.	13.7	463
7	Mre11 Dimers Coordinate DNA End Bridging and Nuclease Processing in Double-Strand-Break Repair. Cell, 2008, 135, 97-109.	13.5	427
8	ATM Activation and Its Recruitment to Damaged DNA Require Binding to the C Terminus of Nbs1. Molecular and Cellular Biology, 2005, 25, 5363-5379.	1.1	373
9	Fission yeast p107wee1 mitotic inhibitor is a tyrosine/serine kinase. Nature, 1991, 349, 808-811.	13.7	365
10	Replication Checkpoint Enforced by Kinases Cds1 and Chk1. Science, 1998, 280, 909-912.	6.0	318
11	Ctp1 Is a Cell-Cycle-Regulated Protein that Functions with Mre11 Complex to Control Double-Strand Break Repair by Homologous Recombination. Molecular Cell, 2007, 28, 134-146.	4.5	306
12	Nbs1 Flexibly Tethers Ctp1 and Mre11-Rad50 to Coordinate DNA Double-Strand Break Processing and Repair. Cell, 2009, 139, 87-99.	13.5	293
13	Damage Tolerance Protein Mus81 Associates with the FHA1 Domain of Checkpoint Kinase Cds1. Molecular and Cellular Biology, 2000, 20, 8758-8766.	1.1	265
14	Mrc1 channels the DNA replication arrest signal to checkpoint kinase Cds1. Nature Cell Biology, 2001, 3, 966-972.	4.6	223
15	Cdc25 Inhibited In Vivo and In Vitro by Checkpoint Kinases Cds1 and Chk1. Molecular Biology of the Cell, 1999, 10, 833-845.	0.9	203
16	Release of Ku and MRN from DNA Ends by Mre11 Nuclease Activity and Ctp1 Is Required for Homologous Recombination Repair of Double-Strand Breaks. PLoS Genetics, 2011, 7, e1002271.	1.5	199
17	Swi1 and Swi3 Are Components of a Replication Fork Protection Complex in Fission Yeast. Molecular and Cellular Biology, 2004, 24, 8342-8355.	1.1	194
18	Fission Yeast Scm3 Mediates Stable Assembly of Cnp1/CENP-A into Centromeric Chromatin. Molecular Cell, 2009, 33, 287-298.	4.5	185

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19	Histone H2A Phosphorylation Controls Crb2 Recruitment at DNA Breaks, Maintains Checkpoint Arrest, and Influences DNA Repair in Fission Yeast. Molecular and Cellular Biology, 2004, 24, 6215-6230.	1.1	180
20	The Endogenous Mus81-Eme1 Complex Resolves Holliday Junctions by a Nick and Counternick Mechanism. Molecular Cell, 2003, 12, 747-759.	4.5	166
21	Nim1 kinase promotes mitosis by inactivating Wee1 tyrosine kinase. Nature, 1993, 363, 738-741.	13.7	161
22	Mitotic DNA damage and replication checkpoints in yeast. Current Opinion in Cell Biology, 1998, 10, 749-758.	2.6	159
23	Swi1 Prevents Replication Fork Collapse and Controls Checkpoint Kinase Cds1. Molecular and Cellular Biology, 2003, 23, 7861-7874.	1.1	157
24	ABC ATPase signature helices in Rad50 link nucleotide state to Mre11 interface for DNA repair. Nature Structural and Molecular Biology, 2011, 18, 423-431.	3.6	149
25	Phosphorylation and association with the transcription factor Atf1 regulate localization of Spc1/Sty1 stress-activated kinase in fissionâ€‰yeast. Genes and Development, 1998, 12, 1464-1473.	2.7	145
26	Interaction of Cdc2 and CdclS with a fission yeast ORC2-like protein. Nature, 1996, 379, 360-363.	13.7	136
27	Checkpoints on the road to mitosis. Trends in Biochemical Sciences, 1998, 23, 399-402.	3.7	131
28	Histone modification-dependent and -independent pathways for recruitment of checkpoint protein Crb2 to double-strand breaks. Genes and Development, 2006, 20, 1583-1596.	2.7	131
29	Growth and the Environment of Schizosaccharomyces pombe. Cold Spring Harbor Protocols, 2016, 2016, pdb.top079764.	0.2	126
30	Constraining G1-Specific Transcription to Late G1 Phase: The MBF-Associated Corepressor Nrm1 Acts via Negative Feedback. Molecular Cell, 2006, 23, 483-496.	4.5	121
31	DNA replication checkpoint. Current Biology, 2001, 11, R953-R956.	1.8	114
32	Fission Yeast Mus81Â·Eme1 Holliday Junction Resolvase Is Required for Meiotic Crossing Over but Not for Gene Conversion. Genetics, 2003, 165, 2289-2293.	1.2	114
33	Tyrosine Phosphorylation of Cdc2 Is Required for the Replication Checkpoint in Schizosaccharomyces pombe. Molecular and Cellular Biology, 1998, 18, 3782-3787.	1.1	109
34	Telomere Binding of Checkpoint Sensor and DNA Repair Proteins Contributes to Maintenance of Functional Fission Yeast Telomeres. Genetics, 2002, 161, 1437-1452.	1.2	109
35	Slx1-Slx4 Are Subunits of a Structure-specific Endonuclease That Maintains Ribosomal DNA in Fission Yeast. Molecular Biology of the Cell, 2004, 15, 71-80.	0.9	108
36	Heat Stress Activates Fission Yeast Spc1/StyI MAPK by a MEKK-Independent Mechanism. Molecular Biology of the Cell, 1998, 9, 1339-1349.	0.9	107

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37	Regulatory networks integrating cell cycle control with DNA damage checkpoints and double-strand break repair. Philosophical Transactions of the Royal Society B: Biological Sciences, 2011, 366, 3562-3571.	1.8	107
38	Sws1 is a conserved regulator of homologous recombination in eukaryotic cells. EMBO Journal, 2006, 25, 2564-2574.	3.5	102
39	Basis for the Checkpoint Signal Specificity That Regulates Chk1 and Cds1 Protein Kinases. Molecular and Cellular Biology, 1999, 19, 4262-4269.	1.1	101
40	Mus81 is essential for sister chromatid recombination at broken replication forks. EMBO Journal, 2008, 27, 1378-1387.	3.5	101
41	Retention but Not Recruitment of Crb2 at Double-Strand Breaks Requires Rad1 and Rad3 Complexes. Molecular and Cellular Biology, 2003, 23, 6150-6158.	1.1	91
42	Tonoplast-localized Abc2 Transporter Mediates Phytochelatin Accumulation in Vacuoles and Confers Cadmium Tolerance. Journal of Biological Chemistry, 2010, 285, 40416-40426.	1.6	87
43	Negative Regulation of Cdc18 DNA Replication Protein by Cdc2. Molecular Biology of the Cell, 1998, 9, 63-73.	0.9	85
44	Î³H2A binds Brc1 to maintain genome integrity during S-phase. EMBO Journal, 2010, 29, 1136-1148.	3.5	78
45	Mechanism of Caffeine-Induced Checkpoint Override in Fission Yeast. Molecular and Cellular Biology, 2000, 20, 4288-4294.	1.1	77
46	Roles of the Mitotic Inhibitors Wee1 and Mik1 in the G 2 DNA Damage and Replication Checkpoints. Molecular and Cellular Biology, 2001, 21, 1499-1508.	1.1	73
47	The Fission Yeast Rad32 (Mre11)-Rad50-Nbs1 Complex Is Required for the S-Phase DNA Damage Checkpoint. Molecular and Cellular Biology, 2003, 23, 6564-6573.	1.1	70
48	Regulation of Mus81â€“Eme1 Holliday junction resolvase in response to DNA damage. Nature Structural and Molecular Biology, 2013, 20, 598-603.	3.6	70
49	Regulation of Mitotic Inhibitor Mik1 Helps to Enforce the DNA Damage Checkpoint. Molecular Biology of the Cell, 2000, 11, 1-11.	0.9	68
50	Rad3ATR Decorates Critical Chromosomal Domains with Î³H2A to Protect Genome Integrity during S-Phase in Fission Yeast. PLoS Genetics, 2010, 6, e1001032.	1.5	67
51	CDK Phosphorylation of Drc1 Regulates DNA Replication in Fission Yeast. Current Biology, 2002, 12, 599-605.	1.8	65
52	RNA-binding protein Csx1 mediates global control of gene expression in response to oxidative stress. EMBO Journal, 2003, 22, 6256-6266.	3.5	64
53	The Schizosaccharomyces pombe S-Phase Checkpoint Differentiates Between Different Types of DNA Damage. Genetics, 1998, 149, 1729-1737.	1.2	63
54	RNase H eliminates Râ€loops that disrupt DNA replication but is nonessential for efficient DSB repair. EMBO Reports, 2018, 19, .	2.0	62

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55	Checkpoints: It takes more than time to heal some wounds. Current Biology, 2000, 10, R908-R911.	1.8	59
56	Replication Checkpoint Protein Mrc1 Is Regulated by Rad3 and Tel1 in Fission Yeast. Molecular and Cellular Biology, 2003, 23, 8395-8403.	1.1	54
57	A Genome-Wide Screen of Genes Involved in Cadmium Tolerance in Schizosaccharomyces pombe. Toxicological Sciences, 2008, 106, 124-139.	1.4	52
58	Threonine-11, Phosphorylated by Rad3 and ATM In Vitro, Is Required for Activation of Fission Yeast Checkpoint Kinase Cds1. Molecular and Cellular Biology, 2001, 21, 3398-3404.	1.1	50
59	Replication Fork Collapse and Genome Instability in a Deoxycytidylate Deaminase Mutant. Molecular and Cellular Biology, 2012, 32, 4445-4454.	1.1	50
60	Distinct Signaling Pathways Respond to Arsenite and Reactive Oxygen Species in Schizosaccharomyces pombe. Eukaryotic Cell, 2005, 4, 1396-1402.	3.4	44
61	Mre11 Nuclease Activity and Ctp1 Regulate Chk1 Activation by Rad3^{ATR} and Tel1^{ATM} Checkpoint Kinases at Double-Strand Breaks. Molecular and Cellular Biology, 2011, 31, 573-583.	1.1	38
62	Rad22Rad52-dependent Repair of Ribosomal DNA Repeats Cleaved by Slx1-Slx4 Endonuclease. Molecular Biology of the Cell, 2006, 17, 2081-2090.	0.9	34
63	Mre11 complex links sister chromatids to promote repair of a collapsed replication fork. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8793-8798.	3.3	31
64	Phosphorylation-regulated binding of Ctp1 to Nbs1 is critical for repair of DNA double-strand breaks. Cell Cycle, 2010, 9, 1516-1522.	1.3	27
65	Global Fitness Profiling Identifies Arsenic and Cadmium Tolerance Mechanisms in Fission Yeast. G3: Genes, Genomes, Genetics, 2016, 6, 3317-3333.	0.8	27
66	Cooperative Control of Crb2 by ATM Family and Cdc2 Kinases Is Essential for the DNA Damage Checkpoint in Fission Yeast. Molecular and Cellular Biology, 2005, 25, 10721-10730.	1.1	26
67	BRCT Domain Interactions with Phospho-Histone H2A Target Crb2 to Chromatin at Double-Strand Breaks and Maintain the DNA Damage Checkpoint. Molecular and Cellular Biology, 2010, 30, 4732-4743.	1.1	26
68	EXO5-DNA structure and BLM interactions direct DNA resection critical for ATR-dependent replication restart. Molecular Cell, 2021, 81, 2989-3006.e9.	4.5	26
69	Mdb1, a Fission Yeast Homolog of Human MDC1, Modulates DNA Damage Response and Mitotic Spindle Function. PLoS ONE, 2014, 9, e97028.	1.1	23
70	Regulation of the Rhp26 ^{ERCC6/CSB} chromatin remodeler by a novel conserved leucine latch motif. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 18566-18571.	3.3	22
71	Cip1 and Cip2 Are Novel RNA-Recognition-Motif Proteins That Counteract Csx1 Function during Oxidative Stress. Molecular Biology of the Cell, 2006, 17, 1176-1183.	0.9	21
72	Mms22 Preserves Genomic Integrity During DNA Replication in Schizosaccharomyces pombe. Genetics, 2007, 177, 47-61.	1.2	21

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73	Brc1 Promotes the Focal Accumulation and SUMO Ligase Activity of Smc5-Smc6 during Replication Stress. Molecular and Cellular Biology, 2019, 39, .	1.1	21
74	Mre11 ATLD17/18 mutation retains Tel1/ATM activity but blocks DNA double-strand break repair. Nucleic Acids Research, 2012, 40, 11435-11449.	6.5	20
75	Critical Functions of Rpa3/Ssb3 in S-Phase DNA Damage Responses in Fission Yeast. PLoS Genetics, 2010, 6, e1001138.	1.5	19
76	Mre11-Rad50â€“dependent activity of ATM/Tel1 at DNA breaks and telomeres in the absence of Nbs1. Molecular Biology of the Cell, 2018, 29, 1389-1399.	0.9	19
77	ÂH2A-Binding Protein Brc1 Affects Centromere Function in Fission Yeast. Molecular and Cellular Biology, 2013, 33, 1410-1416.	1.1	18
78	Critical Function of Î³H2A in S-Phase. PLoS Genetics, 2015, 11, e1005517.	1.5	18
79	Ctp1-dependent clipping and resection of DNA double-strand breaks by Mre11 endonuclease complex are not genetically separable. Nucleic Acids Research, 2016, 44, 8241-8249.	6.5	18
80	Xlf1 Is Required for DNA Repair by Nonhomologous End Joining in Schizosaccharomyces pombe. Genetics, 2007, 175, 963-967.	1.2	17
81	Assays Used to Study the DNA Replication Checkpoint in Fission Yeast. Methods in Molecular Biology, 2009, 521, 493-507.	0.4	17
82	Phosphorylation-Dependent Interactions between Crb2 and Chk1 Are Essential for DNA Damage Checkpoint. PLoS Genetics, 2012, 8, e1002817.	1.5	16
83	Slm9, a Novel Nuclear Protein Involved in Mitotic Control in Fission Yeast. Genetics, 2000, 155, 623-631.	1.2	16
84	Cadmium-Induced Proteome Remodeling Regulated by Spc1/Sty1 and Zip1 in Fission Yeast. Toxicological Sciences, 2012, 129, 200-212.	1.4	15
85	Ku Stabilizes Replication Forks in the Absence of Brc1. PLoS ONE, 2015, 10, e0126598.	1.1	15
86	Tolerance of Deregulated G1/S Transcription Depends on Critical G1/S Regulon Genes to Prevent Catastrophic Genome Instability. Cell Reports, 2014, 9, 2279-2289.	2.9	13
87	Mms1â€“Mms22 complex protects genome integrity in Schizosaccharomyces pombe. DNA Repair, 2009, 8, 1390-1399.	1.3	12
88	Genetic Interaction Landscape Reveals Critical Requirements for Schizosaccharomyces pombe Brc1 in DNA Damage Response Mutants. G3: Genes, Genomes, Genetics, 2015, 5, 953-962.	0.8	11
89	Cracking tyrosine phosphatases. Nature, 1994, 370, 506-507.	13.7	10
90	Molecular basis of chromatin remodeling by Rhp26, a yeast CSB ortholog. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6120-6129.	3.3	10

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91	Brc1 links replication stress response and centromere function. Cell Cycle, 2013, 12, 1665-1671.	1.3	9
92	Lingering single-strand breaks trigger Rad51-independent homology-directed repair of collapsed replication forks in the polynucleotide kinase/phosphatase mutant of fission yeast. PLoS Genetics, 2017, 13, e1007013.	1.5	9
93	Multi-BRCT Domain Protein Brc1 Links Rhp18/Rad18 and Î³H2A To Maintain Genome Stability during S Phase. Molecular and Cellular Biology, 2017, 37, .	1.1	4
94	Tdp1 processes chromate-induced single-strand DNA breaks that collapse replication forks. PLoS Genetics, 2018, 14, e1007595.	1.5	4
95	Activation of MPF in Fission Yeast. Novartis Foundation Symposium, 1992, 170, 50-71.	1.2	0