

# Paul Russell

## List of Publications by Citations

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94  
papers

10,773  
citations

53  
h-index

103  
g-index

107  
ext. papers

11,589  
ext. citations

12.8  
avg, IF

6.08  
L-index

#	Paper	IF	Citations
94	Negative regulation of mitosis by wee1+, a gene encoding a protein kinase homolog. <i>Cell</i> , <b>1987</b> , 49, 559-572	56.2	916
93	cdc25+ functions as an inducer in the mitotic control of fission yeast. <i>Cell</i> , <b>1986</b> , 45, 145-53	56.2	896
92	Nuclear localization of Cdc25 is regulated by DNA damage and a 14-3-3 protein. <i>Nature</i> , <b>1999</b> , 397, 172-50	50.4	517
91	Cdc25 mitotic inducer targeted by chk1 DNA damage checkpoint kinase. <i>Science</i> , <b>1997</b> , 277, 1495-7	33.3	476
90	Mus81-Eme1 are essential components of a Holliday junction resolvase. <i>Cell</i> , <b>2001</b> , 107, 537-48	56.2	450
89	Cell-cycle control linked to extracellular environment by MAP kinase pathway in fission yeast. <i>Nature</i> , <b>1995</b> , 378, 739-43	50.4	417
88	Mre11 dimers coordinate DNA end bridging and nuclease processing in double-strand-break repair. <i>Cell</i> , <b>2008</b> , 135, 97-109	56.2	358
87	Fission yeast p107wee1 mitotic inhibitor is a tyrosine/serine kinase. <i>Nature</i> , <b>1991</b> , 349, 808-11	50.4	338
86	ATM activation and its recruitment to damaged DNA require binding to the C terminus of Nbs1. <i>Molecular and Cellular Biology</i> , <b>2005</b> , 25, 5363-79	4.8	336
85	Replication checkpoint enforced by kinases Cds1 and Chk1. <i>Science</i> , <b>1998</b> , 280, 909-12	33.3	293
84	Ctp1 is a cell-cycle-regulated protein that functions with Mre11 complex to control double-strand break repair by homologous recombination. <i>Molecular Cell</i> , <b>2007</b> , 28, 134-46	17.6	262
83	Damage tolerance protein Mus81 associates with the FHA1 domain of checkpoint kinase Cds1. <i>Molecular and Cellular Biology</i> , <b>2000</b> , 20, 8758-66	4.8	249
82	Nbs1 flexibly tethers Ctp1 and Mre11-Rad50 to coordinate DNA double-strand break processing and repair. <i>Cell</i> , <b>2009</b> , 139, 87-99	56.2	242
81	Mrc1 channels the DNA replication arrest signal to checkpoint kinase Cds1. <i>Nature Cell Biology</i> , <b>2001</b> , 3, 966-72	23.4	200
80	Cdc25 inhibited in vivo and in vitro by checkpoint kinases Cds1 and Chk1. <i>Molecular Biology of the Cell</i> , <b>1999</b> , 10, 833-45	3.5	191
79	Histone H2A phosphorylation controls Crb2 recruitment at DNA breaks, maintains checkpoint arrest, and influences DNA repair in fission yeast. <i>Molecular and Cellular Biology</i> , <b>2004</b> , 24, 6215-30	4.8	172
78	Swi1 and Swi3 are components of a replication fork protection complex in fission yeast. <i>Molecular and Cellular Biology</i> , <b>2004</b> , 24, 8342-55	4.8	171

77	Release of Ku and MRN from DNA ends by Mre11 nuclease activity and Ctp1 is required for homologous recombination repair of double-strand breaks. <i>PLoS Genetics</i> , <b>2011</b> , 7, e1002271	6	168
76	Fission yeast Scm3 mediates stable assembly of Cnp1/CENP-A into centromeric chromatin. <i>Molecular Cell</i> , <b>2009</b> , 33, 287-98	17.6	151
75	The endogenous Mus81-Eme1 complex resolves Holliday junctions by a nick and counternick mechanism. <i>Molecular Cell</i> , <b>2003</b> , 12, 747-59	17.6	149
74	Swi1 prevents replication fork collapse and controls checkpoint kinase Cds1. <i>Molecular and Cellular Biology</i> , <b>2003</b> , 23, 7861-74	4.8	146
73	Mitotic DNA damage and replication checkpoints in yeast. <i>Current Opinion in Cell Biology</i> , <b>1998</b> , 10, 749-58	5	145
72	Nim1 kinase promotes mitosis by inactivating Wee1 tyrosine kinase. <i>Nature</i> , <b>1993</b> , 363, 738-41	50.4	144
71	Phosphorylation and association with the transcription factor Atf1 regulate localization of Spc1/Sty1 stress-activated kinase in fission yeast. <i>Genes and Development</i> , <b>1998</b> , 12, 1464-73	12.6	130
70	Interaction of Cdc2 and Cdc18 with a fission yeast ORC2-like protein. <i>Nature</i> , <b>1996</b> , 379, 360-3	50.4	130
69	ABC ATPase signature helices in Rad50 link nucleotide state to Mre11 interface for DNA repair. <i>Nature Structural and Molecular Biology</i> , <b>2011</b> , 18, 423-31	17.6	129
68	Checkpoints on the road to mitosis. <i>Trends in Biochemical Sciences</i> , <b>1998</b> , 23, 399-402	10.3	113
67	Histone modification-dependent and -independent pathways for recruitment of checkpoint protein Crb2 to double-strand breaks. <i>Genes and Development</i> , <b>2006</b> , 20, 1583-96	12.6	113
66	Constraining G1-specific transcription to late G1 phase: the MBF-associated corepressor Nrm1 acts via negative feedback. <i>Molecular Cell</i> , <b>2006</b> , 23, 483-96	17.6	106
65	DNA replication checkpoint. <i>Current Biology</i> , <b>2001</b> , 11, R953-6	6.3	102
64	Heat stress activates fission yeast Spc1/Sty1 MAPK by a MEKK-independent mechanism. <i>Molecular Biology of the Cell</i> , <b>1998</b> , 9, 1339-49	3.5	100
63	Basis for the checkpoint signal specificity that regulates Chk1 and Cds1 protein kinases. <i>Molecular and Cellular Biology</i> , <b>1999</b> , 19, 4262-9	4.8	100
62	Slx1-Slx4 are subunits of a structure-specific endonuclease that maintains ribosomal DNA in fission yeast. <i>Molecular Biology of the Cell</i> , <b>2004</b> , 15, 71-80	3.5	99
61	Tyrosine phosphorylation of cdc2 is required for the replication checkpoint in <i>Schizosaccharomyces pombe</i> . <i>Molecular and Cellular Biology</i> , <b>1998</b> , 18, 3782-7	4.8	99
60	Telomere binding of checkpoint sensor and DNA repair proteins contributes to maintenance of functional fission yeast telomeres. <i>Genetics</i> , <b>2002</b> , 161, 1437-52	4	99

59	Fission yeast Mus81.Eme1 Holliday junction resolvase is required for meiotic crossing over but not for gene conversion. <i>Genetics</i> , <b>2003</b> , 165, 2289-93	4	96
58	Regulatory networks integrating cell cycle control with DNA damage checkpoints and double-strand break repair. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2011</b> , 366, 3562-71	5.8	95
57	Mus81 is essential for sister chromatid recombination at broken replication forks. <i>EMBO Journal</i> , <b>2008</b> , 27, 1378-87	13	90
56	Sws1 is a conserved regulator of homologous recombination in eukaryotic cells. <i>EMBO Journal</i> , <b>2006</b> , 25, 2564-74	13	88
55	Retention but not recruitment of Crb2 at double-strand breaks requires Rad1 and Rad3 complexes. <i>Molecular and Cellular Biology</i> , <b>2003</b> , 23, 6150-8	4.8	82
54	Negative regulation of Cdc18 DNA replication protein by Cdc2. <i>Molecular Biology of the Cell</i> , <b>1998</b> , 9, 63-73	3.5	80
53	Growth and the Environment of <i>Schizosaccharomyces pombe</i> . <i>Cold Spring Harbor Protocols</i> , <b>2016</b> , 2016, pdb.top079764	1.2	76
52	Tonoplast-localized Abc2 transporter mediates phytochelatin accumulation in vacuoles and confers cadmium tolerance. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 40416-26	5.4	74
51	gammaH2A binds Brc1 to maintain genome integrity during S-phase. <i>EMBO Journal</i> , <b>2010</b> , 29, 1136-48	13	67
50	Roles of the mitotic inhibitors Wee1 and Mik1 in the G(2) DNA damage and replication checkpoints. <i>Molecular and Cellular Biology</i> , <b>2001</b> , 21, 1499-508	4.8	66
49	Regulation of mitotic inhibitor Mik1 helps to enforce the DNA damage checkpoint. <i>Molecular Biology of the Cell</i> , <b>2000</b> , 11, 1-11	3.5	66
48	The fission yeast Rad32 (Mre11)-Rad50-Nbs1 complex is required for the S-phase DNA damage checkpoint. <i>Molecular and Cellular Biology</i> , <b>2003</b> , 23, 6564-73	4.8	64
47	Mechanism of caffeine-induced checkpoint override in fission yeast. <i>Molecular and Cellular Biology</i> , <b>2000</b> , 20, 4288-94	4.8	64
46	RNA-binding protein Csx1 mediates global control of gene expression in response to oxidative stress. <i>EMBO Journal</i> , <b>2003</b> , 22, 6256-66	13	60
45	Rad3 decorates critical chromosomal domains with gammaH2A to protect genome integrity during S-Phase in fission yeast. <i>PLoS Genetics</i> , <b>2010</b> , 6, e1001032	6	58
44	CDK phosphorylation of Drc1 regulates DNA replication in fission yeast. <i>Current Biology</i> , <b>2002</b> , 12, 599-605	6.5	57
43	The <i>Schizosaccharomyces pombe</i> S-phase checkpoint differentiates between different types of DNA damage. <i>Genetics</i> , <b>1998</b> , 149, 1729-37	4	55
42	Checkpoints: it takes more than time to heal some wounds. <i>Current Biology</i> , <b>2000</b> , 10, R908-11	6.3	54

41	Replication checkpoint protein Mrc1 is regulated by Rad3 and Tel1 in fission yeast. <i>Molecular and Cellular Biology</i> , <b>2003</b> , 23, 8395-403	4.8	48
40	Regulation of Mus81-Eme1 Holliday junction resolvase in response to DNA damage. <i>Nature Structural and Molecular Biology</i> , <b>2013</b> , 20, 598-603	17.6	47
39	Threonine-11, phosphorylated by Rad3 and atm in vitro, is required for activation of fission yeast checkpoint kinase Cds1. <i>Molecular and Cellular Biology</i> , <b>2001</b> , 21, 3398-404	4.8	47
38	A genome-wide screen of genes involved in cadmium tolerance in <i>Schizosaccharomyces pombe</i> . <i>Toxicological Sciences</i> , <b>2008</b> , 106, 124-39	4.4	46
37	Distinct signaling pathways respond to arsenite and reactive oxygen species in <i>Schizosaccharomyces pombe</i> . <i>Eukaryotic Cell</i> , <b>2005</b> , 4, 1396-402		42
36	RNase H eliminates R-loops that disrupt DNA replication but is nonessential for efficient DSB repair. <i>EMBO Reports</i> , <b>2018</b> , 19,	6.5	39
35	Replication fork collapse and genome instability in a deoxycytidylate deaminase mutant. <i>Molecular and Cellular Biology</i> , <b>2012</b> , 32, 4445-54	4.8	33
34	Mre11 nuclease activity and Ctp1 regulate Chk1 activation by Rad3ATR and Tel1ATM checkpoint kinases at double-strand breaks. <i>Molecular and Cellular Biology</i> , <b>2011</b> , 31, 573-83	4.8	33
33	Rad22Rad52-dependent repair of ribosomal DNA repeats cleaved by Slx1-Slx4 endonuclease. <i>Molecular Biology of the Cell</i> , <b>2006</b> , 17, 2081-90	3.5	33
32	Phosphorylation-regulated binding of Ctp1 to Nbs1 is critical for repair of DNA double-strand breaks. <i>Cell Cycle</i> , <b>2010</b> , 9, 1516-22	4.7	24
31	BRCT domain interactions with phospho-histone H2A target Crb2 to chromatin at double-strand breaks and maintain the DNA damage checkpoint. <i>Molecular and Cellular Biology</i> , <b>2010</b> , 30, 4732-43	4.8	22
30	Cooperative control of Crb2 by ATM family and Cdc2 kinases is essential for the DNA damage checkpoint in fission yeast. <i>Molecular and Cellular Biology</i> , <b>2005</b> , 25, 10721-30	4.8	22
29	Regulation of the Rhp26ERCC6/CSB chromatin remodeler by a novel conserved leucine latch motif. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 18566-71	11.5	21
28	Cip1 and Cip2 are novel RNA-recognition-motif proteins that counteract Csx1 function during oxidative stress. <i>Molecular Biology of the Cell</i> , <b>2006</b> , 17, 1176-83	3.5	19
27	Mms22 preserves genomic integrity during DNA replication in <i>Schizosaccharomyces pombe</i> . <i>Genetics</i> , <b>2007</b> , 177, 47-61	4	19
26	Mre11 ATLD17/18 mutation retains Tel1/ATM activity but blocks DNA double-strand break repair. <i>Nucleic Acids Research</i> , <b>2012</b> , 40, 11435-49	20.1	17
25	Assays used to study the DNA replication checkpoint in fission yeast. <i>Methods in Molecular Biology</i> , <b>2009</b> , 521, 493-507	1.4	17
24	Mre11 complex links sister chromatids to promote repair of a collapsed replication fork. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 8793-8798	11.5	16

23	H2A-binding protein Brc1 affects centromere function in fission yeast. <i>Molecular and Cellular Biology</i> , <b>2013</b> , 33, 1410-6	4.8	16
22	Critical functions of Rpa3/Ssb3 in S-phase DNA damage responses in fission yeast. <i>PLoS Genetics</i> , <b>2010</b> , 6, e1001138	6	15
21	Global Fitness Profiling Identifies Arsenic and Cadmium Tolerance Mechanisms in Fission Yeast. <i>G3: Genes, Genomes, Genetics</i> , <b>2016</b> , 6, 3317-3333	3.2	15
20	Xlf1 is required for DNA repair by nonhomologous end joining in <i>Schizosaccharomyces pombe</i> . <i>Genetics</i> , <b>2007</b> , 175, 963-7	4	14
19	Mdb1, a fission yeast homolog of human MDC1, modulates DNA damage response and mitotic spindle function. <i>PLoS ONE</i> , <b>2014</b> , 9, e97028	3.7	14
18	Mre11-Rad50-dependent activity of ATM/Tel1 at DNA breaks and telomeres in the absence of Nbs1. <i>Molecular Biology of the Cell</i> , <b>2018</b> , 29, 1389-1399	3.5	13
17	Cadmium-induced proteome remodeling regulated by Spc1/Sty1 and Zip1 in fission yeast. <i>Toxicological Sciences</i> , <b>2012</b> , 129, 200-12	4.4	13
16	Slm9, a novel nuclear protein involved in mitotic control in fission yeast. <i>Genetics</i> , <b>2000</b> , 155, 623-31	4	12
15	Brc1 Promotes the Focal Accumulation and SUMO Ligase Activity of Smc5-Smc6 during Replication Stress. <i>Molecular and Cellular Biology</i> , <b>2019</b> , 39,	4.8	12
14	Ctp1-dependent clipping and resection of DNA double-strand breaks by Mre11 endonuclease complex are not genetically separable. <i>Nucleic Acids Research</i> , <b>2016</b> , 44, 8241-9	20.1	11
13	Tolerance of deregulated G1/S transcription depends on critical G1/S regulon genes to prevent catastrophic genome instability. <i>Cell Reports</i> , <b>2014</b> , 9, 2279-89	10.6	11
12	Phosphorylation-dependent interactions between Crb2 and Chk1 are essential for DNA damage checkpoint. <i>PLoS Genetics</i> , <b>2012</b> , 8, e1002817	6	11
11	Critical Function of H2A in S-Phase. <i>PLoS Genetics</i> , <b>2015</b> , 11, e1005517	6	10
10	Mms1-Mms22 complex protects genome integrity in <i>Schizosaccharomyces pombe</i> . <i>DNA Repair</i> , <b>2009</b> , 8, 1390-9	4.3	9
9	Brc1 links replication stress response and centromere function. <i>Cell Cycle</i> , <b>2013</b> , 12, 1665-71	4.7	8
8	EXO5-DNA structure and BLM interactions direct DNA resection critical for ATR-dependent replication restart. <i>Molecular Cell</i> , <b>2021</b> , 81, 2989-3006.e9	17.6	8
7	Molecular basis of chromatin remodeling by Rhp26, a yeast CSB ortholog. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 6120-6129	11.5	7
6	Genetic Interaction Landscape Reveals Critical Requirements for <i>Schizosaccharomyces pombe</i> Brc1 in DNA Damage Response Mutants. <i>G3: Genes, Genomes, Genetics</i> , <b>2015</b> , 5, 953-62	3.2	7

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|---|--|-----|---|
| 5 | Ku stabilizes replication forks in the absence of Brc1. <i>PLoS ONE</i> , <b>2015</b> , 10, e0126598   | 3.7 | 7 |
| 4 | Lingering single-strand breaks trigger Rad51-independent homology-directed repair of collapsed replication forks in the polynucleotide kinase/phosphatase mutant of fission yeast. <i>PLoS Genetics</i> , <b>2017</b> , 13, e1007013 | 6   | 2 |
| 3 | Multi-BRCT Domain Protein Brc1 Links Rhp18/Rad18 and H2A To Maintain Genome Stability during S Phase. <i>Molecular and Cellular Biology</i> , <b>2017</b> , 37,  | 4.8 | 2 |
| 2 | Tdp1 processes chromate-induced single-strand DNA breaks that collapse replication forks. <i>PLoS Genetics</i> , <b>2018</b> , 14, e1007595  | 6   | 2 |
| 1 | Activation of MPF in fission yeast. <i>Novartis Foundation Symposium</i> , <b>1992</b> , 170, 50-8; discussion 58-71   |     |   |