

Grant W Brown

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

104 papers	8,838 citations	45 h-index	93 g-index
122 ext. papers	10,183 ext. citations	10.8 avg, IF	5.63 L-index

#	Paper	IF	Citations
104	High-throughput platform for yeast morphological profiling predicts the targets of bioactive compounds.. <i>Npj Systems Biology and Applications</i> , 2022 , 8, 3	5	0
103	Yeast goes viral: probing SARS-CoV-2 biology using .. <i>Microbial Cell</i> , 2022 , 9, 80-83	3.9	
102	LSD1 is required for euchromatic origin firing and replication timing.. <i>Signal Transduction and Targeted Therapy</i> , 2022 , 7, 102	21	1
101	The amino acid substitution affects cellular response to mistranslation. <i>G3: Genes, Genomes, Genetics</i> , 2021 , 11,	3.2	2
100	RNF168 regulates R-loop resolution and genomic stability in BRCA1/2-deficient tumors. <i>Journal of Clinical Investigation</i> , 2021 , 131,	15.9	11
99	Topoisomerase II deficiency leads to a postreplicative structural shift in all <i>Saccharomyces cerevisiae</i> chromosomes. <i>Scientific Reports</i> , 2021 , 11, 14940	4.9	0
98	Mistranslating tRNA identifies a deleterious S213P mutation in the allele. <i>Biochemistry and Cell Biology</i> , 2020 , 98, 624-630	3.6	4
97	A Genetic Map of the Response to DNA Damage in Human Cells. <i>Cell</i> , 2020 , 182, 481-496.e21	56.2	122
96	Chemical-Genetic Interactions with the Proline Analog L-Azetidine-2-Carboxylic Acid in. <i>G3: Genes, Genomes, Genetics</i> , 2020 , 10, 4335-4345	3.2	1
95	Sonic hedgehog accelerates DNA replication to cause replication stress promoting cancer initiation in medulloblastoma.. <i>Nature Cancer</i> , 2020 , 1, 840-854	15.4	5
94	A Genome-Wide Screen for Genes Affecting Spontaneous Direct-Repeat Recombination in. <i>G3: Genes, Genomes, Genetics</i> , 2020 , 10, 1853-1867	3.2	1
93	Rad5 Recruits Error-Prone DNA Polymerases for Mutagenic Repair of ssDNA Gaps on Undamaged Templates. <i>Molecular Cell</i> , 2019 , 73, 900-914.e9	17.6	27
92	Exploiting DNA Replication Stress for Cancer Treatment. <i>Cancer Research</i> , 2019 , 79, 1730-1739	10.1	76
91	Post-replication repair: Rad5/HLTF regulation, activity on undamaged templates, and relationship to cancer. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2019 , 54, 301-332	8.7	7
90	The endonuclease Cue2 cleaves mRNAs at stalled ribosomes during No Go Decay. <i>ELife</i> , 2019 , 8,	8.9	69
89	Systematic analysis of complex genetic interactions. <i>Science</i> , 2018 , 360,	33.3	128
88	Unification of Protein Abundance Datasets Yields a Quantitative <i>Saccharomyces cerevisiae</i> Proteome. <i>Cell Systems</i> , 2018 , 6, 192-205.e3	10.6	186

87	DNA Replication Profiling Using Deep Sequencing. <i>Methods in Molecular Biology</i> , 2018 , 1672, 195-207	1.4	3
86	The budding yeast RSC complex maintains ploidy by promoting spindle pole body insertion. <i>Journal of Cell Biology</i> , 2018 , 217, 2445-2462	7.3	3
85	Mapping DNA damage-dependent genetic interactions in yeast via party mating and barcode fusion genetics. <i>Molecular Systems Biology</i> , 2018 , 14, e7985	12.2	15
84	Flap endonuclease overexpression drives genome instability and DNA damage hypersensitivity in a PCNA-dependent manner. <i>Nucleic Acids Research</i> , 2018 , 46, 5634-5650	20.1	18
83	CX-5461 is a DNA G-quadruplex stabilizer with selective lethality in BRCA1/2 deficient tumours. <i>Nature Communications</i> , 2017 , 8, 14432	17.4	25 ¹
82	Progerin-Induced Replication Stress Facilitates Premature Senescence in Hutchinson-Gilford Progeria Syndrome. <i>Molecular and Cellular Biology</i> , 2017 , 37,	4.8	38
81	Genome-Scale Genetic Interactions and Cell Imaging Confirm Cytokinesis as Deleterious to Transient Topoisomerase II Deficiency in. <i>G3: Genes, Genomes, Genetics</i> , 2017 , 7, 3379-3391	3.2	5
80	P-body proteins regulate transcriptional rewiring to promote DNA replication stress resistance. <i>Nature Communications</i> , 2017 , 8, 558	17.4	18
79	Functional annotation of chemical libraries across diverse biological processes. <i>Nature Chemical Biology</i> , 2017 , 13, 982-993	11.7	48
78	Intersection of calorie restriction and magnesium in the suppression of genome-destabilizing RNA-DNA hybrids. <i>Nucleic Acids Research</i> , 2016 , 44, 8870-8884	20.1	20
77	Analysis of Replicating Yeast Chromosomes by DNA Combing. <i>Cold Spring Harbor Protocols</i> , 2016 , 2016, pdb.prot085118	1.2	13
76	HELB Is a Feedback Inhibitor of DNA End Resection. <i>Molecular Cell</i> , 2016 , 61, 405-418	17.6	92
75	High-throughput fluorescence microscopic analysis of protein abundance and localization in budding yeast. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2016 , 51, 110-9	8.7	8
74	Single-Molecule Analysis of Replicating Yeast Chromosomes. <i>Cold Spring Harbor Protocols</i> , 2016 , 2016, pdb.top077784	1.2	4
73	Slx4 and Rtt107 control checkpoint signalling and DNA resection at double-strand breaks. <i>Nucleic Acids Research</i> , 2016 , 44, 669-82	20.1	33
72	MTE1 Functions with MPH1 in Double-Strand Break Repair. <i>Genetics</i> , 2016 , 203, 147-57	4	12
71	Exploring Quantitative Yeast Phenomics with Single-Cell Analysis of DNA Damage Foci. <i>Cell Systems</i> , 2016 , 3, 264-277.e10	10.6	16
70	Smc5/6 Mediated Sumoylation of the Sgs1-Top3-Rmi1 Complex Promotes Removal of Recombination Intermediates. <i>Cell Reports</i> , 2016 , 16, 368-378	10.6	45

69	The Monoterpene Carvacrol Generates Endoplasmic Reticulum Stress in the Pathogenic Fungus <i>Candida albicans</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2015 , 59, 4584-92	5.9	43
68	Dampening DNA damage checkpoint signalling via coordinated BRCT domain interactions. <i>EMBO Journal</i> , 2015 , 34, 1704-17	13	35
67	Termination of Replication Stress Signaling via Concerted Action of the Slx4 Scaffold and the PP4 Phosphatase. <i>Genetics</i> , 2015 , 201, 937-49	4	13
66	A high-throughput confocal fluorescence microscopy platform to study DNA replication stress in yeast cells. <i>Methods in Molecular Biology</i> , 2015 , 1300, 1-12	1.4	0
65	E4F1 is a master regulator of CHK1-mediated functions. <i>Cell Reports</i> , 2015 , 11, 210-9	10.6	14
64	Assembly of Slx4 signaling complexes behind DNA replication forks. <i>EMBO Journal</i> , 2015 , 34, 2182-97	13	30
63	Leveraging DNA damage response signaling to identify yeast genes controlling genome stability. <i>G3: Genes, Genomes, Genetics</i> , 2015 , 5, 997-1006	3.2	14
62	Genetic Regulation of Dna2 Localization During the DNA Damage Response. <i>G3: Genes, Genomes, Genetics</i> , 2015 , 5, 1937-44	3.2	5
61	Mapping the cellular response to small molecules using chemogenomic fitness signatures. <i>Science</i> , 2014 , 344, 208-11	33.3	174
60	A role for USP7 in DNA replication. <i>Molecular and Cellular Biology</i> , 2014 , 34, 132-45	4.8	45
59	Haploinsufficiency of an RB-E2F1-Condensin II complex leads to aberrant replication and aneuploidy. <i>Cancer Discovery</i> , 2014 , 4, 840-53	24.4	57
58	Fanconi anemia signaling and Mus81 cooperate to safeguard development and crosslink repair. <i>Nucleic Acids Research</i> , 2014 , 42, 9807-20	20.1	3
57	Top3 β is an RNA topoisomerase that works with fragile X syndrome protein to promote synapse formation. <i>Nature Neuroscience</i> , 2013 , 16, 1238-47	25.5	92
56	A high-throughput yeast assay identifies synergistic drug combinations. <i>Assay and Drug Development Technologies</i> , 2013 , 11, 299-307	2.1	16
55	Global analysis of SUMO chain function reveals multiple roles in chromatin regulation. <i>Journal of Cell Biology</i> , 2013 , 201, 145-63	7.3	47
54	The INO80 chromatin remodeling complex prevents polyploidy and maintains normal chromatin structure at centromeres. <i>Genes and Development</i> , 2012 , 26, 2590-603	12.6	47
53	Comparative chemogenomics to examine the mechanism of action of dna-targeted platinum-acridine anticancer agents. <i>ACS Chemical Biology</i> , 2012 , 7, 1892-901	4.9	34
52	Dissecting DNA damage response pathways by analysing protein localization and abundance changes during DNA replication stress. <i>Nature Cell Biology</i> , 2012 , 14, 966-76	23.4	322

51	Genome rearrangements caused by depletion of essential DNA replication proteins in <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> , 2012 , 192, 147-60	4	19
50	Endogenous DNA replication stress results in expansion of dNTP pools and a mutator phenotype. <i>EMBO Journal</i> , 2012 , 31, 895-907	13	76
49	RM11 promotes DNA replication fork progression and recovery from replication fork stress. <i>Molecular and Cellular Biology</i> , 2012 , 32, 3054-64	4.8	22
48	BLM and RM11 alleviate RPA inhibition of TopoIII β decatenase activity. <i>PLoS ONE</i> , 2012 , 7, e41208	3.7	5
47	New azole antifungal agents with novel modes of action: synthesis and biological studies of new tridentate ligands based on pyrazole and triazole. <i>European Journal of Medicinal Chemistry</i> , 2011 , 46, 4117-24	6.8	58
46	Mms1 and Mms22 stabilize the replisome during replication stress. <i>Molecular Biology of the Cell</i> , 2011 , 22, 2396-408	3.5	15
45	Putting genetic interactions in context through a global modular decomposition. <i>Genome Research</i> , 2011 , 21, 1375-87	9.7	55
44	The Budding Yeast " <i>Saccharomyces cerevisiae</i> " as a Drug Discovery Tool to Identify Plant-Derived Natural Products with Anti-Proliferative Properties. <i>Evidence-based Complementary and Alternative Medicine</i> , 2011 , 2011, 954140	2.3	9
43	Clustering with Overlap for Genetic Interaction Networks via Local Search Optimization. <i>Lecture Notes in Computer Science</i> , 2011 , 326-338	0.9	
42	Quantitative analysis of fitness and genetic interactions in yeast on a genome scale. <i>Nature Methods</i> , 2010 , 7, 1017-24	21.6	251
41	Diversity of eukaryotic DNA replication origins revealed by genome-wide analysis of chromatin structure. <i>PLoS Genetics</i> , 2010 , 6, e1001092	6	104
40	Human topoisomerase III α is a single-stranded DNA decatenase that is stimulated by BLM and RM11. <i>Journal of Biological Chemistry</i> , 2010 , 285, 21426-36	5.4	51
39	The MMS22L-TONSL complex mediates recovery from replication stress and homologous recombination. <i>Molecular Cell</i> , 2010 , 40, 619-31	17.6	85
38	Dissecting the DNA damage response using functional genomics approaches in <i>S. cerevisiae</i> . <i>DNA Repair</i> , 2009 , 8, 1110-7	4.3	4
37	Comparative genome hybridization on tiling microarrays to detect aneuploidies in yeast. <i>Methods in Molecular Biology</i> , 2009 , 548, 1-18	1.4	7
36	Budding yeast Mms22 and Mms1 regulate homologous recombination induced by replisome blockage. <i>DNA Repair</i> , 2008 , 7, 811-8	4.3	49
35	The N- and C-termini of Elg1 contribute to the maintenance of genome stability. <i>DNA Repair</i> , 2008 , 7, 1221-32	4.3	16
34	RM1, a new OB-fold complex essential for Bloom syndrome protein to maintain genome stability. <i>Genes and Development</i> , 2008 , 22, 2843-55	12.6	153

33	Regulation of rtt107 recruitment to stalled DNA replication forks by the cullin rtt101 and the rtt109 acetyltransferase. <i>Molecular Biology of the Cell</i> , 2008 , 19, 171-80	3.5	49
32	Functional targeting of DNA damage to a nuclear pore-associated SUMO-dependent ubiquitin ligase. <i>Science</i> , 2008 , 322, 597-602	33.3	338
31	Chemical-genetic profiling of imidazo[1,2-a]pyridines and -pyrimidines reveals target pathways conserved between yeast and human cells. <i>PLoS Genetics</i> , 2008 , 4, e1000284	6	31
30	Functional dissection of protein complexes involved in yeast chromosome biology using a genetic interaction map. <i>Nature</i> , 2007 , 446, 806-10	50.4	731
29	Genetic dissection of parallel sister-chromatid cohesion pathways. <i>Genetics</i> , 2007 , 176, 1417-29	4	79
28	Slx4 regulates DNA damage checkpoint-dependent phosphorylation of the BRCT domain protein Rtt107/Esc4. <i>Molecular Biology of the Cell</i> , 2006 , 17, 539-48	3.5	75
27	A survey of essential gene function in the yeast cell division cycle. <i>Molecular Biology of the Cell</i> , 2006 , 17, 4736-47	3.5	74
26	BLAP75/RMI1 promotes the BLM-dependent dissolution of homologous recombination intermediates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 4068-73	11.5	222
25	Genomic approaches for identifying DNA damage response pathways in <i>S. cerevisiae</i> . <i>Methods in Enzymology</i> , 2006 , 409, 213-35	1.7	2
24	Suppression of genomic instability by SLX5 and SLX8 in <i>Saccharomyces cerevisiae</i> . <i>DNA Repair</i> , 2006 , 5, 336-46	4.3	79
23	The synthetic genetic interaction spectrum of essential genes. <i>Nature Genetics</i> , 2005 , 37, 1147-52	36.3	185
22	RMI1/NCE4, a suppressor of genome instability, encodes a member of the RecQ helicase/Topo III complex. <i>EMBO Journal</i> , 2005 , 24, 2024-33	13	139
21	Identification of protein complexes required for efficient sister chromatid cohesion. <i>Molecular Biology of the Cell</i> , 2004 , 15, 1736-45	3.5	198
20	The origin recognition complex links replication, sister chromatid cohesion and transcriptional silencing in <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> , 2004 , 167, 579-91	4	94
19	Integration of chemical-genetic and genetic interaction data links bioactive compounds to cellular target pathways. <i>Nature Biotechnology</i> , 2004 , 22, 62-9	44.5	527
18	Global mapping of the yeast genetic interaction network. <i>Science</i> , 2004 , 303, 808-13	33.3	1700
17	Elg1 forms an alternative RFC complex important for DNA replication and genome integrity. <i>EMBO Journal</i> , 2003 , 22, 4304-13	13	127
16	Cdc7 kinases (DDKs) and checkpoint responses: lessons from two yeasts. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2003 , 532, 21-7	3.3	32

15	A genome-wide screen for methyl methanesulfonate-sensitive mutants reveals genes required for S phase progression in the presence of DNA damage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 16934-9	11.5	234
14	A conserved domain of <i>Schizosaccharomyces pombe</i> dfp1(+) is uniquely required for chromosome stability following alkylation damage during S phase. <i>Molecular and Cellular Biology</i> , 2002 , 22, 4477-90	4.8	45
13	<i>Schizosaccharomyces pombe</i> Hsk1p is a potential cds1p target required for genome integrity. <i>Molecular and Cellular Biology</i> , 2000 , 20, 7922-32	4.8	69
12	Regulation of chromosome replication. <i>Annual Review of Biochemistry</i> , 2000 , 69, 829-80	29.1	330
11	<i>Schizosaccharomyces pombe</i> Hsk1p Is a Potential Cds1p Target Required for Genome Integrity. <i>Molecular and Cellular Biology</i> , 2000 , 20, 7922-7932	4.8	2
10	Purification of Hsk1, a minichromosome maintenance protein kinase from fission yeast. <i>Journal of Biological Chemistry</i> , 1998 , 273, 22083-90	5.4	92
9	Controlling initiation during the cell cycle. DNA replication. <i>Current Biology</i> , 1996 , 6, 229-33	6.3	31
8	Isolation of the genes encoding the 51-kilodalton and 28-kilodalton subunits of <i>Crithidia fasciculata</i> replication protein A. <i>Molecular and Biochemical Parasitology</i> , 1994 , 63, 135-42	1.9	28
7	Replication protein A from the trypanosomatid <i>Crithidia fasciculata</i> is inactive in the primosome assembly step of SV40 DNA replication. <i>Molecular and Biochemical Parasitology</i> , 1993 , 59, 323-5	1.9	8
6	Purification and characterization of DNA ligase I from the trypanosomatid <i>Crithidia fasciculata</i> . <i>Nucleic Acids Research</i> , 1992 , 20, 3905-10	20.1	11
5	Monoclonal antibodies to the major nonstructural nuclear protein of minute virus of mice. <i>Virology</i> , 1991 , 181, 35-45	3.6	45
4	Comparative analysis of protein abundance studies to quantify the <i>Saccharomyces cerevisiae</i> proteome		2
3	A genetic map of the response to DNA damage in human cells		3
2	Functional Annotation of Chemical Libraries across Diverse Biological Processes		1
1	Genetic screens identify connections between ribosome recycling and nonsense mediated decay		1