Ralph Scully

List of Publications by Year
in descending order

74 papers	12,182 citations	61984 43 h-index	82547 72 g-index
77 all docs	77 docs citations	77 times ranked	13269 citing authors

#	Article	IF	Citations
1	Association of BRCA1 with Rad51 in Mitotic and Meiotic Cells. Cell, 1997, 88, 265-275.	28.9	1,392
2	Involvement of the TIP60 Histone Acetylase Complex in DNA Repair and Apoptosis. Cell, 2000, 102, 463-473.	28.9	936
3	Dynamic Changes of BRCA1 Subnuclear Location and Phosphorylation State Are Initiated by DNA Damage. Cell, 1997, 90, 425-435.	28.9	856
4	DNA double-strand break repair-pathway choice in somatic mammalian cells. Nature Reviews Molecular Cell Biology, 2019, 20, 698-714.	37.0	839
5	SIRT1 Redistribution on Chromatin Promotes Genomic Stability but Alters Gene Expression during Aging. Cell, 2008, 135, 907-918.	28.9	756
6	In search of the tumour-suppressor functions of BRCA1 and BRCA2. Nature, 2000, 408, 429-432.	27.8	617
7	Stable Interaction between the Products of the BRCA1 and BRCA2 Tumor Suppressor Genes in Mitotic and Meiotic Cells. Molecular Cell, 1998, 2, 317-328.	9.7	545
8	Increased ionizing radiation sensitivity and genomic instability in the absence of histone H2AX. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 8173-8178.	7.1	492
9	Comprehensive analysis of chromothripsis in 2,658 human cancers using whole-genome sequencing. Nature Genetics, 2020, 52, 331-341.	21.4	431
10	Combining a PI3K Inhibitor with a PARP Inhibitor Provides an Effective Therapy for BRCA1-Related Breast Cancer. Cancer Discovery, 2012, 2, 1048-1063.	9.4	384
11	Localization of human BRCA1 and its loss in high-grade, non-inherited breast carcinomas. Nature Genetics, 1999, 21, 236-240.	21.4	383
12	Genetic Analysis of BRCA1 Function in a Defined Tumor Cell Line. Molecular Cell, 1999, 4, 1093-1099.	9.7	332
13	Mechanisms of double-strand break repair in somatic mammalian cells. Biochemical Journal, 2009, 423, 157-168.	3.7	319
14	Role of mammalian Mre11 in classical and alternative nonhomologous end joining. Nature Structural and Molecular Biology, 2009, 16, 814-818.	8.2	293
15	RAP80-directed tuning of BRCA1 homologous recombination function at ionizing radiation-induced nuclear foci. Genes and Development, 2011, 25, 685-700.	5.9	206
16	Distinct Roles of Chromatin-Associated Proteins MDC1 and 53BP1 in Mammalian Double-Strand Break Repair. Molecular Cell, 2007, 28, 1045-1057.	9.7	195
17	Double strand break repair functions of histone H2AX. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2013, 750, 5-14.	1.0	193
18	Control of Sister Chromatid Recombination by Histone H2AX. Molecular Cell, 2004, 16, 1017-1025.	9.7	191

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19	Mechanisms in CD4 antibody-mediated transplantation tolerance: kinetics of induction, antigen dependency and role of regulatory T cells. European Journal of Immunology, 1994, 24, 2383-2392.	2.9	163
20	The Tandem Duplicator Phenotype Is a Prevalent Genome-Wide Cancer Configuration Driven by Distinct Gene Mutations. Cancer Cell, 2018, 34, 197-210.e5.	16.8	130
21	Metabolic and Functional Genomic Studies Identify Deoxythymidylate Kinase as a Target in LKB1-Mutant Lung Cancer. Cancer Discovery, 2013, 3, 870-879.	9.4	127
22	PARP1-Driven Poly-ADP-Ribosylation Regulates BRCA1 Function in Homologous Recombinationâ€“Mediated DNA Repair. Cancer Discovery, 2014, 4, 1430-1447.	9.4	125
23	BRCA1 controls homologous recombination at Tus/Ter-stalled mammalian replication forks. Nature, 2014, 510, 556-559.	27.8	122
24	Mechanism of tandem duplication formation in BRCA1-mutant cells. Nature, 2017, 551, 590-595.	27.8	118
25	Active Localization of the Retinoblastoma Protein in Chromatin and Its Response to S Phase DNA Damage. Molecular Cell, 2003, 12, 735-746.	9.7	110
26	BRCA1 Is Required for Postreplication Repair after UV-Induced DNA Damage. Molecular Cell, 2011, 44, 235-251.	9.7	106
27	RFWD3-Dependent Ubiquitination of RPA Regulates Repair at Stalled Replication Forks. Molecular Cell, 2015, 60, 280-293.	9.7	103
28	The tandem duplicator phenotype as a distinct genomic configuration in cancer. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E2373-82.	7.1	103
29	p300 Interacts with the Nuclear Proto-Oncoprotein SYT as Part of the Active Control of Cell Adhesion. Cell, 2000, 102, 839-848.	28.9	92
30	Molecular Functions of BRCA1 in the DNA Damage Response. Cancer Biology and Therapy, 2004, 3, 521-527.	3.4	85
31	Minding the gap: The underground functions of BRCA1 and BRCA2 at stalled replication forks. DNA Repair, 2007, 6, 1018-1031.	2.8	85
32	PARP3 affects the relative contribution of homologous recombination and nonhomologous end-joining pathways. Nucleic Acids Research, 2014, 42, 5616-5632.	14.5	82
33	Phosphoinositide 3-kinase inhibitors induce DNA damage through nucleoside depletion. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E4338-47.	7.1	76
34	Role of BRCAgene dysfunction in breast and ovarian cancer predisposition. Breast Cancer Research, 2000, 2, 324-30.	5.0	70
35	DNA polymerase stalling, sister chromatid recombination and the BRCA genes. Oncogene, 2000, 19, 6176-6183.	5.9	66
36	Molecular analysis of sister chromatid recombination in mammalian cells. DNA Repair, 2005, 4, 149-161.	2.8	59

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37	Akt-Mediated Phosphorylation of XLF Impairs Non-Homologous End-Joining DNA Repair. Molecular Cell, 2015, 57, 648-661.	9.7	59
38	Differential Regulation of Short- and Long-Tract Gene Conversion between Sister Chromatids by Rad51C. Molecular and Cellular Biology, 2006, 26, 8075-8086.	2.3	56
39	BRCA1 and CtIP suppress long-tract gene conversion between sister chromatids. Nature Communications, 2013, 4, 2404.	12.8	56
40	H2AX post-translational modifications in the ionizing radiation response and homologous recombination. Cell Cycle, 2010, 9, 3602-3610.	2.6	55
41	ATM- and ATR-Mediated Phosphorylation of XRCC3 Regulates DNA Double-Strand Break-Induced Checkpoint Activation and Repair. Molecular and Cellular Biology, 2013, 33, 1830-1844.	2.3	54
42	Impact of Histone H4 Lysine 20 Methylation on 53BP1 Responses to Chromosomal Double Strand Breaks. PLoS ONE, 2012, 7, e49211.	2.5	50
43	XRCC2 and XRCC3 Regulate the Balance between Short- and Long-Tract Gene Conversions between Sister Chromatids. Molecular and Cellular Biology, 2009, 29, 4283-4294.	2.3	46
44	Deciphering the Code of the Cancer Genome: Mechanisms of Chromosome Rearrangement. Trends in Cancer, 2015, 1, 217-230.	7.4	46
45	Global increase in replication fork speed during a p57 ^{KIP2} -regulated erythroid cell fate switch. Science Advances, 2017, 3, e1700298.	10.3	44
46	Nek4 Regulates Entry into Replicative Senescence and the Response to DNA Damage in Human Fibroblasts. Molecular and Cellular Biology, 2012, 32, 3963-3977.	2.3	42
47	FANCM regulates repair pathway choice at stalled replication forks. Molecular Cell, 2021, 81, 2428-2444.e6.	9.7	37
48	A role for Th2 cytokines in the suppression of CD8+ T cell-mediated graft rejection. European Journal of Immunology, 1997, 27, 1663-1670.	2.9	35
49	BRCA1 and BRCA2 in hereditary breast cancer. Biochimie, 2002, 84, 95-102.	2.6	34
50	Variants of uncertain clinical significance in hereditary breast and ovarian cancer genes: best practices in functional analysis for clinical annotation. Journal of Medical Genetics, 2020, 57, 509-518.	3.2	33
51	DEK is required for homologous recombination repair of DNA breaks. Scientific Reports, 2017, 7, 44662.	3.3	30
52	Cell Cycle-Dependent Induction of Homologous Recombination by a Tightly Regulated I-SceI Fusion Protein. PLoS ONE, 2011, 6, e16501.	2.5	28
53	53BP1 Protects against CtIP-Dependent Capture of Ectopic Chromosomal Sequences at the Junction of Distant Double-Strand Breaks. PLoS Genetics, 2016, 12, e1006230.	3.5	27
54	Rad51 recruitment and exclusion of non-homologous end joining during homologous recombination at a Tus/Ter mammalian replication fork barrier. PLoS Genetics, 2018, 14, e1007486.	3.5	24

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55	Inactivation of the Prolyl Isomerase Pin1 Sensitizes BRCA1-Proficient Breast Cancer to PARP Inhibition. Cancer Research, 2020, 80, 3033-3045.	0.9	23
56	Lamin B1 sequesters 53BP1 to control its recruitment to DNA damage. Science Advances, 2021, 7, .	10.3	21
57	Complex Breakpoints and Template Switching Associated with Non-canonical Termination of Homologous Recombination in Mammalian Cells. PLoS Genetics, 2016, 12, e1006410.	3.5	19
58	LRF maintains genome integrity by regulating the non-homologous end joining pathway of DNA repair. Nature Communications, 2015, 6, 8325.	12.8	18
59	In my end is my beginning: control of end resection and DSBR pathway â€˜choiceâ€™ by cyclin-dependent kinases. Oncogene, 2005, 24, 2871-2876.	5.9	17
60	The Spindle-Assembly Checkpoint, Aneuploidy, and Gastrointestinal Cancer. New England Journal of Medicine, 2010, 363, 2665-2666.	27.0	17
61	The Protexin complex counters resection on stalled forks to promote homologous recombination and crosslink repair. Molecular Cell, 2021, 81, 4440-4456.e7.	9.7	17
62	Recombination and restart at blocked replication forks. Current Opinion in Genetics and Development, 2021, 71, 154-162.	3.3	16
63	Trex2 Enables Spontaneous Sister Chromatid Exchanges Without Facilitating DNA Double-Strand Break Repair. Genetics, 2011, 188, 787-797.	2.9	15
64	FANCJ helicase controls the balance between short- and long-tract gene conversions between sister chromatids. Nucleic Acids Research, 2017, 45, 8886-8900.	14.5	15
65	Interactions between BRCA Proteins and DNA Structure. Experimental Cell Research, 2001, 264, 67-73.	2.6	13
66	Hijacking the DNA Damage Response to Enhance Viral Replication: Î³-Herpesvirus 68 orf36 Phosphorylates Histone H2AX. Molecular Cell, 2007, 27, 178-179.	9.7	13
67	Spatial separation of replisome arrest sites influences homologous recombination quality at a Tus/Ter-mediated replication fork barrier. Cell Cycle, 2016, 15, 1812-1820.	2.6	8
68	A histone code for DNA repair. Nature Reviews Molecular Cell Biology, 2010, 11, 164-164.	37.0	7
69	A protective role for BRCA2 at stalled replication forks. Breast Cancer Research, 2011, 13, 314.	5.0	7
70	BRCA1 and BRCA2 in Breast Cancer Predisposition and Recombination Control. Journal of Mammary Gland Biology and Neoplasia, 2004, 9, 237-246.	2.7	6
71	Measurement of Homologous Recombination at Stalled Mammalian Replication Forks. Methods in Molecular Biology, 2021, 2153, 329-353.	0.9	5
72	Hereditary Breast and Ovarian Cancer Genes. , 2003, 222, 041-057.		3

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73	Epistatic Relationships in the BRCA1-BRCA2 Pathway. PLoS Genetics, 2011, 7, e1002183.	3.5	3
74	DNA Polymerase Î¸: Duct Tape and Zip Ties for a Fragile Genome. Molecular Cell, 2016, 63, 542-544.	9.7	0