

Susan M Bailey

List of Publications by Citations

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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.

56
papers

2,868
citations

27
h-index

53
g-index

57
ext. papers

3,339
ext. citations

8.9
avg, IF

4.67
L-index

#	Paper	IF	Citations
56	Pot1 deficiency initiates DNA damage checkpoint activation and aberrant homologous recombination at telomeres. <i>Cell</i> , 2006 , 126, 49-62	56.2	327
55	The NASA Twins Study: A multidimensional analysis of a year-long human spaceflight. <i>Science</i> , 2019 , 364,	33.3	300
54	Telomere lengthening early in development. <i>Nature Cell Biology</i> , 2007 , 9, 1436-41	23.4	271
53	Telomeres, chromosome instability and cancer. <i>Nucleic Acids Research</i> , 2006 , 34, 2408-17	20.1	174
52	Frequent recombination in telomeric DNA may extend the proliferative life of telomerase-negative cells. <i>Nucleic Acids Research</i> , 2004 , 32, 3743-51	20.1	159
51	Elevated telomere-telomere recombination in WRN-deficient, telomere dysfunctional cells promotes escape from senescence and engagement of the ALT pathway. <i>Genes and Development</i> , 2005 , 19, 2560-70	12.6	150
50	Functional interaction between DNA-PKcs and telomerase in telomere length maintenance. <i>EMBO Journal</i> , 2002 , 21, 6275-87	13	105
49	SNMIB/Apollo protects leading-strand telomeres against NHEJ-mediated repair. <i>EMBO Journal</i> , 2010 , 29, 2230-41	13	89
48	Deficiency in mammalian histone H2B ubiquitin ligase Bre1 (Rnf20/Rnf40) leads to replication stress and chromosomal instability. <i>Cancer Research</i> , 2012 , 72, 2111-9	10.1	84
47	Resveratrol reduces radiation-induced chromosome aberration frequencies in mouse bone marrow cells. <i>Radiation Research</i> , 2008 , 169, 633-8	3.1	79
46	Metformin inhibits mitochondrial adaptations to aerobic exercise training in older adults. <i>Aging Cell</i> , 2019 , 18, e12880	9.9	74
45	DNA-PK phosphorylation of RPA32 Ser4/Ser8 regulates replication stress checkpoint activation, fork restart, homologous recombination and mitotic catastrophe. <i>DNA Repair</i> , 2014 , 21, 131-9	4.3	73
44	Telomere dysfunction and DNA-PKcs deficiency: characterization and consequence. <i>Cancer Research</i> , 2009 , 69, 2100-7	10.1	68
43	The kinase activity of DNA-PK is required to protect mammalian telomeres. <i>DNA Repair</i> , 2004 , 3, 225-33	4.3	67
42	Dysfunctional mammalian telomeres join with DNA double-strand breaks. <i>DNA Repair</i> , 2004 , 3, 349-57	4.3	67
41	Fundamental Biological Features of Spaceflight: Advancing the Field to Enable Deep-Space Exploration. <i>Cell</i> , 2020 , 183, 1162-1184	56.2	50
40	NBS1 knockdown by small interfering RNA increases ionizing radiation mutagenesis and telomere association in human cells. <i>Cancer Research</i> , 2005 , 65, 5544-53	10.1	46

39	Hyper telomere recombination accelerates replicative senescence and may promote premature aging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 15768-73	11.5	45
38	Chromosome damage in human cells by γ rays, α particles and heavy ions: track interactions in basic dose-response relationships. <i>Radiation Research</i> , 2013 , 179, 9-20	3.1	42
37	DNA double-strand breaks are not sufficient to initiate recruitment of TRF2. <i>Nature Genetics</i> , 2007 , 39, 696-8; author reply 698-9	36.3	42
36	Studies on chromosome aberration induction: what can they tell us about DNA repair?. <i>DNA Repair</i> , 2006 , 5, 1171-81	4.3	42
35	Dose responses for chromosome aberrations produced in noncycling primary human fibroblasts by alpha particles, and by gamma rays delivered at sublimiting low dose rates. <i>Radiation Research</i> , 2002 , 158, 43-53	3.1	40
34	A Randomized Controlled Trial to Increase Navy Bean or Rice Bran Consumption in Colorectal Cancer Survivors. <i>Nutrition and Cancer</i> , 2016 , 68, 1269-1280	2.8	37
33	Partial deficiency of DNA-PKcs increases ionizing radiation-induced mutagenesis and telomere instability in human cells. <i>Cancer Letters</i> , 2007 , 250, 63-73	9.9	36
32	Stress and telomere shortening among central Indian conservation refugees. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E928-36	11.5	31
31	TERRA, hnRNP A1, and DNA-PKcs Interactions at Human Telomeres. <i>Frontiers in Oncology</i> , 2013 , 3, 91	5.3	29
30	Telomeres and Telomerase in the Radiation Response: Implications for Instability, Reprograming, and Carcinogenesis. <i>Frontiers in Oncology</i> , 2015 , 5, 257	5.3	27
29	Feline chronic kidney disease is associated with shortened telomeres and increased cellular senescence. <i>American Journal of Physiology - Renal Physiology</i> , 2013 , 305, F295-303	4.3	25
28	Directional genomic hybridization for chromosomal inversion discovery and detection. <i>Chromosome Research</i> , 2013 , 21, 165-74	4.4	22
27	Chromosome Translocations, Inversions and Telomere Length for Retrospective Biodosimetry on Exposed U.S. Atomic Veterans. <i>Radiation Research</i> , 2019 , 191, 311-322	3.1	21
26	Directional genomic hybridization: inversions as a potential biodosimeter for retrospective radiation exposure. <i>Radiation and Environmental Biophysics</i> , 2014 , 53, 255-63	2	21
25	CO-FISH, COD-FISH, ReD-FISH, SKY-FISH. <i>Methods in Molecular Biology</i> , 2011 , 735, 113-24	1.4	20
24	Mouse MutS homolog 4 is predominantly expressed in testis and interacts with MutS homolog 5. <i>Mammalian Genome</i> , 2001 , 12, 73-6	3.2	20
23	Temporal Telomere and DNA Damage Responses in the Space Radiation Environment. <i>Cell Reports</i> , 2020 , 33, 108435	10.6	17
22	On the origin of lateral asymmetry. <i>Chromosoma</i> , 1996 , 104, 345-7	2.8	16

21	Molecular characterisation of murine acute myeloid leukaemia induced by 56Fe ion and 137Cs gamma ray irradiation. <i>Mutagenesis</i> , 2013 , 28, 71-9	2.8	15
20	Chromosome Orientation fluorescence in situ hybridization or strand-specific FISH. <i>Methods in Molecular Biology</i> , 2010 , 659, 173-83	1.4	14
19	Telomere Length Dynamics and DNA Damage Responses Associated with Long-Duration Spaceflight. <i>Cell Reports</i> , 2020 , 33, 108457	10.6	14
18	Radiation-Induced Reprogramming of Pre-Senescent Mammary Epithelial Cells Enriches Putative CD44(+)/CD24(-/low) Stem Cell Phenotype. <i>Frontiers in Oncology</i> , 2016 , 6, 138	5.3	14
17	Chromosome orientation fluorescence in situ hybridization (CO-FISH). <i>Cold Spring Harbor Protocols</i> , 2009 , 2009, pdb.prot5269	1.2	13
16	Cell-free DNA (cfDNA) and Exosome Profiling from a Year-Long Human Spaceflight Reveals Circulating Biomarkers. <i>IScience</i> , 2020 , 23, 101844	6.1	13
15	Estimation of Radiation Doses to U.S. Military Test Participants from Nuclear Testing: A Comparison of Historical Film-Badge Measurements, Dose Reconstruction and Retrospective Biodosimetry. <i>Radiation Research</i> , 2019 , 191, 297-310	3.1	11
14	Murine Prkdc polymorphisms impact DNA-PKcs function. <i>Radiation Research</i> , 2011 , 175, 493-500	3.1	11
13	Radiation quality and mutagenesis in human lymphoblastoid cells. <i>Radiation Research</i> , 2014 , 182, 390-5	3.1	7
12	Directional Genomic Hybridization (dGH) for Detection of Intrachromosomal Rearrangements. <i>Methods in Molecular Biology</i> , 2019 , 1984, 107-116	1.4	6
11	SCID dogs: similar transplant potential but distinct intra-uterine growth defects and premature replicative senescence compared with SCID mice. <i>Journal of Immunology</i> , 2009 , 183, 2529-36	5.3	6
10	Molecular Cytogenetics Guides Massively Parallel Sequencing of a Radiation-Induced Chromosome Translocation in Human Cells. <i>Radiation Research</i> , 2018 , 190, 88-97	3.1	6
9	Haplotype diversity and sequence heterogeneity of human telomeres. <i>Genome Research</i> , 2021 ,	9.7	4
8	Telomeres and double-strand breaks - all@ well that "ends" well.. <i>Radiation Research</i> , 2008 , 169, 1-7	3.1	3
7	Twins, Telomeres, and Aging-in Space!. <i>Plastic and Reconstructive Surgery</i> , 2021 , 147, 7S-14S	2.7	3
6	Telomeric Double Strand Breaks in G1 Human Cells Facilitate Formation of 5CC-Rich Overhangs and Recruitment of TERRA. <i>Frontiers in Genetics</i> , 2021 , 12, 644803	4.5	3
5	Telomere Length Dynamics and Chromosomal Instability for Predicting Individual Radiosensitivity and Risk via Machine Learning. <i>Journal of Personalized Medicine</i> , 2021 , 11,	3.6	3
4	Telomeres and NextGen CO-FISH: Directional Genomic Hybridization (Telo-dGH) <i>Methods in Molecular Biology</i> , 2017 , 1587, 103-112	1.4	2

3	Destabilizing Effects of Ionizing Radiation on Chromosomes: Sizing up the Damage. <i>Cytogenetic and Genome Research</i> , 2021 , 161, 328-351	1.9	2
2	Ad Astra - telomeres in space!. <i>International Journal of Radiation Biology</i> , 2021 , 1-9	2.9	1
1	Evaluation of DNA damage and stress in wildlife chronically exposed to low-dose, low-dose rate radiation from the Fukushima Dai-ichi Nuclear Power Plant accident. <i>Environment International</i> , 2021 , 155, 106675	12.9	1