Susan M Bailey

List of Publications by Year
in descending order

56 papers	3,861 citations	172443 29 h-index	149686 56 g-index
57 all docs	57 docs citations	57 times ranked	4666 citing authors

#	Article	IF	Citations
1	The NASA Twins Study: A multidimensional analysis of a year-long human spaceflight. Science, 2019, 364, .	12.6	576
2	Pot1 Deficiency Initiates DNA Damage Checkpoint Activation and Aberrant Homologous Recombination at Telomeres. Cell, 2006, 126, 49-62.	28.9	366
3	Telomere lengthening early in development. Nature Cell Biology, 2007, 9, 1436-1441.	10.3	330
4	Telomeres, chromosome instability and cancer. Nucleic Acids Research, 2006, 34, 2408-2417.	14.5	201
5	Fundamental Biological Features of Spaceflight: Advancing the Field to Enable Deep-Space Exploration. Cell, 2020, 183, 1162-1184.	28.9	185
6	Frequent recombination in telomeric DNA may extend the proliferative life of telomerase-negative cells. Nucleic Acids Research, 2004, 32, 3743-3751.	14.5	183
7	Elevated telomere-telomere recombination in WRN-deficient, telomere dysfunctional cells promotes escape from senescence and engagement of the ALT pathway. Genes and Development, 2005, 19, 2560-2570.	5.9	171
8	Metformin inhibits mitochondrial adaptations to aerobic exercise training in older adults. Aging Cell, 2019, 18, e12880.	6.7	135
9	Functional interaction between DNA-PKcs and telomerase in telomere length maintenance. EMBO Journal, 2002, 21, 6275-6287.	7.8	115
10	SNMIB/Apollo protects leading-strand telomeres against NHEJ-mediated repair. EMBO Journal, 2010, 29, 2230-2241.	7.8	104
11	DNA-PK phosphorylation of RPA32 Ser4/Ser8 regulates replication stress checkpoint activation, fork restart, homologous recombination and mitotic catastrophe. DNA Repair, 2014, 21, 131-139.	2.8	103
12	Deficiency in Mammalian Histone H2B Ubiquitin Ligase Bre1 (Rnf20/Rnf40) Leads to Replication Stress and Chromosomal Instability. Cancer Research, 2012, 72, 2111-2119.	0.9	97
13	Resveratrol Reduces Radiation-Induced Chromosome Aberration Frequencies in Mouse Bone Marrow Cells. Radiation Research, 2008, 169, 633-638.	1.5	93
14	Dysfunctional mammalian telomeres join with DNA double-strand breaks. DNA Repair, 2004, 3, 349-357.	2.8	77
15	Telomere Dysfunction and DNA-PKcs Deficiency: Characterization and Consequence. Cancer Research, 2009, 69, 2100-2107.	0.9	73
16	The kinase activity of DNA-PK is required to protect mammalian telomeres. DNA Repair, 2004, 3, 225-233.	2.8	72
17	A Randomized Controlled Trial to Increase Navy Bean or Rice Bran Consumption in Colorectal Cancer Survivors. Nutrition and Cancer, 2016, 68, 1269-1280.	2.0	50
18	Hyper telomere recombination accelerates replicative senescence and may promote premature aging. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 15768-15773.	7.1	49

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19	Chromosome Damage in Human Cells by Î³ Rays, Î± Particles and Heavy Ions: Track Interactions in Basic Dose-Response Relationships. Radiation Research, 2012, 179, 9.	1.5	49
20	NBS1 Knockdown by Small Interfering RNA Increases Ionizing Radiation Mutagenesis and Telomere Association in Human Cells. Cancer Research, 2005, 65, 5544-5553.	0.9	48
21	Studies on chromosome aberration induction: What can they tell us about DNA repair?. DNA Repair, 2006, 5, 1171-1181.	2.8	48
22	DNA double-strand breaks are not sufficient to initiate recruitment of TRF2. Nature Genetics, 2007, 39, 696-698.	21.4	48
23	Telomere Length Dynamics and DNA Damage Responses Associated with Long-Duration Spaceflight. Cell Reports, 2020, 33, 108457.	6.4	48
24	Dose Responses for Chromosome Aberrations Produced in Noncycling Primary Human Fibroblasts by Alpha Particles, and by Gamma Rays Delivered at Sublimiting Low Dose Rates. Radiation Research, 2002, 158, 43-53.	1.5	43
25	Temporal Telomere and DNA Damage Responses in the Space Radiation Environment. Cell Reports, 2020, 33, 108435.	6.4	40
26	Partial deficiency of DNA-PKcs increases ionizing radiation-induced mutagenesis and telomere instability in human cells. Cancer Letters, 2007, 250, 63-73.	7.2	38
27	Telomeres and Telomerase in the Radiation Response: Implications for Instability, Reprograming, and Carcinogenesis. Frontiers in Oncology, 2015, 5, 257.	2.8	38
28	Stress and telomere shortening among central Indian conservation refugees. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E928-36.	7.1	35
29	TERRA, hnRNP A1, and DNA-PKcs Interactions at Human Telomeres. Frontiers in Oncology, 2013, 3, 91.	2.8	33
30	Feline chronic kidney disease is associated with shortened telomeres and increased cellular senescence. American Journal of Physiology - Renal Physiology, 2013, 305, F295-F303.	2.7	31
31	Cell-free DNA (cfDNA) and Exosome Profiling from a Year-Long Human Spaceflight Reveals Circulating Biomarkers. IScience, 2020, 23, 101844.	4.1	31
32	Directional genomic hybridization for chromosomal inversion discovery and detection. Chromosome Research, 2013, 21, 165-174.	2.2	28
33	Directional genomic hybridization: inversions as a potential biodosimeter for retrospective radiation exposure. Radiation and Environmental Biophysics, 2014, 53, 255-263.	1.4	26
34	Chromosome Translocations, Inversions and Telomere Length for Retrospective Biodosimetry on Exposed U.S. Atomic Veterans. Radiation Research, 2019, 191, 311.	1.5	26
35	Mouse MutS homolog 4 is predominantly expressed in testis and interacts with MutS homolog 5. Mammalian Genome, 2001, 12, 73-76.	2.2	23
36	CO-FISH, COD-FISH, ReD-FISH, SKY-FISH. Methods in Molecular Biology, 2011, 735, 113-124.	0.9	21

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37	Haplotype diversity and sequence heterogeneity of human telomeres. Genome Research, 2021, 31, 1269-1279.	5.5	19
38	On the origin of lateral asymmetry. Chromosoma, 1996, 104, 345-347.	2.2	18
39	Chromosome Orientation Fluorescence In Situ Hybridization (CO-FISH): Figure 1.. Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5269.	0.3	18
40	Chromosome Orientation Fluorescence In Situ Hybridization or Strand-Specific FISH. Methods in Molecular Biology, 2010, 659, 173-183.	0.9	16
41	Radiation-Induced Reprogramming of Pre-Senescent Mammary Epithelial Cells Enriches Putative CD44+/CD24â^'/low Stem Cell Phenotype. Frontiers in Oncology, 2016, 6, 138.	2.8	16
42	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. Radiation Research, 2019, 191, 297.	1.5	16
43	Molecular characterisation of murine acute myeloid leukaemia induced by 56Fe ion and 137Cs gamma ray irradiation. Mutagenesis, 2013, 28, 71-79.	2.6	15
44	Twins, Telomeres, and Agingâ€"in Space!. Plastic and Reconstructive Surgery, 2021, 147, 7S-14S.	1.4	13
45	Telomere Length Dynamics and Chromosomal Instability for Predicting Individual Radiosensitivity and Risk via Machine Learning. Journal of Personalized Medicine, 2021, 11, 188.	2.5	12
46	Murine Prkdc Polymorphisms Impact DNA-PKcs Function. Radiation Research, 2011, 175, 493.	1.5	11
47	Molecular Cytogenetics Guides Massively Parallel Sequencing of a Radiation-Induced Chromosome Translocation in Human Cells. Radiation Research, 2018, 190, 88.	1.5	11
48	SCID Dogs: Similar Transplant Potential but Distinct Intra-Uterine Growth Defects and Premature Replicative Senescence Compared with SCID Mice. Journal of Immunology, 2009, 183, 2529-2536.	0.8	10
49	Directional Genomic Hybridization (dGH) for Detection of Intrachromosomal Rearrangements. Methods in Molecular Biology, 2019, 1984, 107-116.	0.9	9
50	Destabilizing Effects of Ionizing Radiation on Chromosomes: Sizing up the Damage. Cytogenetic and Genome Research, 2021, 161, 328-351.	1.1	9
51	Radiation Quality and Mutagenesis in Human Lymphoblastoid Cells. Radiation Research, 2014, 182, 390.	1.5	8
52	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. Environment International, 2021, 155, 106675.	10.0	8
53	Telomeres and Double-Strand Breaks â€“ All's Well that â€œEndsâ€•Well. â€¦. Radiation Research, 2008, 169, 1-7.	1.5	5
54	Ad Astra â€“ telomeres in space!. International Journal of Radiation Biology, 2022, 98, 395-403.	1.8	5

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55	Telomeres and NextGen CO-FISH: Directional Genomic Hybridization (Telo-dGHâ„¢). Methods in Molecular Biology, 2017, 1587, 103-112.	0.9	4
56	Telomeric Double Strand Breaks in G1 Human Cells Facilitate Formation of 5â€² C-Rich Overhangs and Recruitment of TERRA. Frontiers in Genetics, 2021, 12, 644803.	2.3	4