Kathleen H Burns

List of Publications by Year
in descending order

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57 papers	4,769 citations	236925 25 h-index	168389 53 g-index
63 all docs	63 docs citations	63 times ranked	5535 citing authors

#	Article	IF	Citations
1	Ten things you should know about transposable elements. Genome Biology, 2018, 19, 199.	8.8	817
2	Transposable elements in cancer. Nature Reviews Cancer, 2017, 17, 415-424.	28.4	415
3	Active Transposition in Genomes. Annual Review of Genetics, 2012, 46, 651-675.	7.6	347
4	Pan-cancer analysis of whole genomes identifies driver rearrangements promoted by LINE-1 retrotransposition. Nature Genetics, 2020, 52, 306-319.	21.4	275
5	Human Transposon Tectonics. Cell, 2012, 149, 740-752.	28.9	258
6	Long Interspersed Element-1 Protein Expression Is a Hallmark of Many Human Cancers. American Journal of Pathology, 2014, 184, 1280-1286.	3.8	250
7	Mobile Interspersed Repeats Are Major Structural Variants in the Human Genome. Cell, 2010, 141, 1171-1182.	28.9	242
8	Transposable elements in human genetic disease. Nature Reviews Genetics, 2019, 20, 760-772.	16.3	214
9	Affinity Proteomics Reveals Human Host Factors Implicated in Discrete Stages of LINE-1 Retrotransposition. Cell, 2013, 155, 1034-1048.	28.9	190
10	Toward the human cellular microRNAome. Genome Research, 2017, 27, 1769-1781.	5.5	142
11	Retrotransposon insertions in the clonal evolution of pancreatic ductal adenocarcinoma. Nature Medicine, 2015, 21, 1060-1064.	30.7	127
12	LINE-1 expression and retrotransposition in Barrettâ€™s esophagus and esophageal carcinoma. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E4894-900.	7.1	127
13	SQuIRE reveals locus-specific regulation of interspersed repeat expression. Nucleic Acids Research, 2019, 47, e27-e27.	14.5	115
14	The Human Long Interspersed Element-1 Retrotransposon: An Emerging Biomarker of Neoplasia. Clinical Chemistry, 2017, 63, 816-822.	3.2	113
15	Structural variants caused by Alu insertions are associated with risks for many human diseases. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E3984-E3992.	7.1	113
16	Human transposon insertion profiling: Analysis, visualization and identification of somatic LINE-1 insertions in ovarian cancer. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E733-E740.	7.1	86
17	Our Conflict with Transposable Elements and Its Implications for Human Disease. Annual Review of Pathology: Mechanisms of Disease, 2020, 15, 51-70.	22.4	81
18	The HUSH complex is a gatekeeper of type I interferon through epigenetic regulation of LINE-1s. Nature Communications, 2020, 11, 5387.	12.8	79

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19	Cell fitness screens reveal a conflict between LINE-1 retrotransposition and DNA replication. Nature Structural and Molecular Biology, 2020, 27, 168-178.	8.2	74
20	Dissection of affinity captured LINE-1 macromolecular complexes. ELife, 2018, 7, .	6.0	63
21	Genome-wide characterization of human L1 antisense promoter-driven transcripts. BMC Genomics, 2016, 17, 463.	2.8	58
22	Aluinsertion variants alter mRNA splicing. Nucleic Acids Research, 2019, 47, 421-431.	14.5	58
23	LINE-1 ORF2p expression is nearly imperceptible in human cancers. Mobile DNA, 2020, 11, 1.	3.6	51
24	Somatically Acquired LINE-1 Insertions in Normal Esophagus Undergo Clonal Expansion in Esophageal Squamous Cell Carcinoma. Human Mutation, 2016, 37, 942-954.	2.5	43
25	Transposable elements in cancer. , 0, .		38
26	LINE-1 expression in cancer correlates with p53 mutation, copy number alteration, and S phase checkpoint. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	36
27	Long Interspersed Nuclear Element 1 Retrotransposons Become Deregulated during the Development of Ovarian Cancer Precursor Lesions. American Journal of Pathology, 2019, 189, 513-520.	3.8	35
28	Frequency and mechanisms of LINE-1 retrotransposon insertions at CRISPR/Cas9 sites. Nature Communications, 2022, 13, .	12.8	30
29	Alu insertion variants alter gene transcript levels. Genome Research, 2021, 31, 2236-2248.	5.5	25
30	Transposon insertion profiling by sequencing (TIPseq) for mapping LINE-1 insertions in the human genome. Mobile DNA, 2019, 10, 8.	3.6	22
31	Polymorphic mobile element insertions contribute to gene expression and alternative splicing in human tissues. Genome Biology, 2020, 21, 185.	8.8	20
32	Characterization of L1-Ribonucleoprotein Particles. Methods in Molecular Biology, 2016, 1400, 311-338.	0.9	19
33	Repetitive DNA in disease. Science, 2022, 376, 353-354.	12.6	19
34	Somatic retrotransposition is infrequent in glioblastomas. Mobile DNA, 2016, 7, 22.	3.6	17
35	Immunodetection of Human LINE-1 Expression in Cultured Cells and Human Tissues. Methods in Molecular Biology, 2016, 1400, 261-280.	0.9	17
36	Integrated Transcriptomic and Proteomic Analysis of Primary Human Umbilical Vein Endothelial Cells. Proteomics, 2019, 19, e1800315.	2.2	16

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37	Systemic depletion of lymphocytes following focal radiation to the brain in a murine model. OncoImmunology, 2018, 7, e1445951.	4.6	15
38	The Evolution of Earned, Transparent, and Quantifiable Faculty Salary Compensation. Academic Pathology, 2018, 5, 2374289518777463.	1.1	11
39	TypeTE: a tool to genotype mobile element insertions from whole genome resequencing data. Nucleic Acids Research, 2020, 48, e36-e36.	14.5	11
40	Insertion and deletion polymorphisms of the ancient AluS family in the human genome. Mobile DNA, 2017, 8, 6.	3.6	10
41	A robust nonlinear tissue-component discrimination method for computational pathology. Laboratory Investigation, 2016, 96, 450-458.	3.7	9
42	Genomic characterization of chromosome translocations in patients with T/myeloid mixed-phenotype acute leukemia. Leukemia and Lymphoma, 2018, 59, 1231-1238.	1.3	8
43	Detection of Alu Exonization Events in Human Frontal Cortex From RNA-Seq Data. Frontiers in Molecular Biosciences, 2021, 8, 727537.	3.5	7
44	The Johns Hopkins Department of Pathology Novel Organizational Model: A 25-Year-Old Ongoing Experiment. Academic Pathology, 2018, 5, 2374289518811145.	1.1	7
45	Human transposon insertion profiling by sequencing (TIPseq) to map LINE-1 insertions in single cells. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190335.	4.0	6
46	Visualization and probability-based scoring of structural variants within repetitive sequences. Bioinformatics, 2014, 30, 1514-1521.	4.1	5
47	Integrated Mobile Element Scanning (ME-Scan) method for identifying multiple types of polymorphic mobile element insertions. Mobile DNA, 2020, 11, 12.	3.6	5
48	A map of mobile DNA insertions in the NCI-60 human cancer cell panel. Mobile DNA, 2016, 7, 20.	3.6	4
49	Familial monophasic acute transverse myelitis due to the pathogenic variant in VPS37A. Neurology: Genetics, 2018, 4, e213.	1.9	4
50	Pathology Residency Program Special Expertise Tracks Meet the Needs of an Evolving Field. Academic Pathology, 2021, 8, 23742895211037034.	1.1	4
51	Massively parallel rare disease genetics. Genome Medicine, 2011, 3, 29.	8.2	3
52	Meeting Report: The Role of the Mobilome in Cancer. Cancer Research, 2016, 76, 4316-4319.	0.9	3
53	Editorial overview: Genome architecture and expression: Mobile elements at work. Current Opinion in Genetics and Development, 2018, 49, iv-v.	3.3	3
54	Bone Marrow Findings in Patients With Acute Promyelocytic Leukemia Treated With Arsenic Trioxide. American Journal of Clinical Pathology, 2019, 152, 675-685.	0.7	2

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55	Autoantibodies targeting LINE-1-encoded ORF1p are associated with systemic lupus erythematosus diagnosis but not disease activity. Clinical and Experimental Rheumatology, 0, , .	0.8	2
56	Comprehensive Mapping of Transposon Insertions in Human Hematopoietic Neoplasias.. Blood, 2009, 114, 1103-1103.	1.4	0
57	Autoantibodies targeting LINE-1-encoded ORF1p are associated with systemic lupus erythematosus diagnosis but not disease activity. Clinical and Experimental Rheumatology, 2021, , .	0.8	0