Elizabeth P Murchison

List of Publications by Year
in descending order

59 papers	10,960 citations	117625 34 h-index	175258 52 g-index
70 all docs	70 docs citations	70 times ranked	13983 citing authors

#	Article	IF	Citations
1	Dicer is essential for mouse development. Nature Genetics, 2003, 35, 215-217.	21.4	1,759
2	A MicroRNA Feedback Circuit in Midbrain Dopamine Neurons. Science, 2007, 317, 1220-1224.	12.6	1,094
3	Pseudogene-derived small interfering RNAs regulate gene expression in mouse oocytes. Nature, 2008, 453, 534-538.	27.8	960
4	Characterization of Dicer-deficient murine embryonic stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 12135-12140.	7.1	742
5	Enhancer Evolution across 20 Mammalian Species. Cell, 2015, 160, 554-566.	28.9	671
6	Genome analysis of the platypus reveals unique signatures of evolution. Nature, 2008, 453, 175-183.	27.8	657
7	Targeted deletion of Dicer in the heart leads to dilated cardiomyopathy and heart failure. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 2111-2116.	7.1	540
8	Critical roles for Dicer in the female germline. Genes and Development, 2007, 21, 682-693.	5.9	438
9	miRNAs on the move: miRNA biogenesis and the RNAi machinery. Current Opinion in Cell Biology, 2004, 16, 223-229.	5.4	360
10	A mammalian microRNA cluster controls DNA methylation and telomere recombination via Rbl2-dependent regulation of DNA methyltransferases. Nature Structural and Molecular Biology, 2008, 15, 268-279.	8.2	348
11	The miRNA-Processing Enzyme Dicer Is Essential for the Morphogenesis and Maintenance of Hair Follicles. Current Biology, 2006, 16, 1041-1049.	3.9	335
12	miRNAs are essential for survival and differentiation of newborn neurons but not for expansion of neural progenitors during early neurogenesis in the mouse embryonic neocortex. Development (Cambridge), 2008, 135, 3911-3921.	2.5	309
13	Genome Sequencing and Analysis of the Tasmanian Devil and Its Transmissible Cancer. Cell, 2012, 148, 780-791.	28.9	300
14	The Tasmanian Devil Transcriptome Reveals Schwann Cell Origins of a Clonally Transmissible Cancer. Science, 2010, 327, 84-87.	12.6	222
15	Somatic mutation rates scale with lifespan across mammals. Nature, 2022, 604, 517-524.	27.8	211
16	A second transmissible cancer in Tasmanian devils. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 374-379.	7.1	192
17	Rapid evolutionary response to a transmissible cancer in Tasmanian devils. Nature Communications, 2016, 7, 12684.	12.8	162
18	Transmissible Dog Cancer Genome Reveals the Origin and History of an Ancient Cell Lineage. Science, 2014, 343, 437-440.	12.6	144

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19	The evolutionary history of dogs in the Americas. Science, 2018, 361, 81-85.	12.6	140
20	Cross-species genomic landscape comparison of human mucosal melanoma with canine oral and equine melanoma. Nature Communications, 2019, 10, 353.	12.8	99
21	Genomic Restructuring in the Tasmanian Devil Facial Tumour: Chromosome Painting and Gene Mapping Provide Clues to Evolution of a Transmissible Tumour. PLoS Genetics, 2012, 8, e1002483.	3.5	92
22	The Origins and Vulnerabilities of Two Transmissible Cancers in Tasmanian Devils. Cancer Cell, 2018, 33, 607-619.e15.	16.8	88
23	Identification and validation of a novel mature microRNA encoded by the Merkel cell polyomavirus in human Merkel cell carcinomas. Journal of Clinical Virology, 2011, 52, 272-275.	3.1	80
24	The changing global distribution and prevalence of canine transmissible venereal tumour. BMC Veterinary Research, 2014, 10, 168.	1.9	68
25	The Expanding Universe of Noncoding RNAs. Cold Spring Harbor Symposia on Quantitative Biology, 2006, 71, 551-564.	1.1	65
26	Tumor-Specific Diagnostic Marker for Transmissible Facial Tumors of Tasmanian Devils. Veterinary Pathology, 2011, 48, 1195-1203.	1.7	60
27	Somatic evolution and global expansion of an ancient transmissible cancer lineage. Science, 2019, 365, .	12.6	58
28	Ordered progression of stage-specific miRNA profiles in the mouse B2 B-cell lineage. Blood, 2011, 117, 5340-5349.	1.4	55
29	Deregulated Sex Chromosome Gene Expression with Male Germ Cell-Specific Loss of Dicer1. PLoS ONE, 2012, 7, e46359.	2.5	49
30	Mitochondrial genetic diversity, selection and recombination in a canine transmissible cancer. ELife, 2016, 5, .	6.0	49
31	The cancer which survived: insights from the genome of an 11000 year-old cancer. Current Opinion in Genetics and Development, 2015, 30, 49-55.	3.3	48
32	Transmissible cancer in Tasmanian devils: localized lineage replacement and host population response. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20151468.	2.6	48
33	The newly-arisen Devil facial tumour disease 2 (DFT2) reveals a mechanism for the emergence of a contagious cancer. ELife, 2018, 7, .	6.0	47
34	The ERBB-STAT3 Axis Drives Tasmanian Devil Facial Tumor Disease. Cancer Cell, 2019, 35, 125-139.e9.	16.8	43
35	Conservation of small RNA pathways in platypus. Genome Research, 2008, 18, 995-1004.	5.5	39
36	Tracing the rise of malignant cell lines: Distribution, epidemiology and evolutionary interactions of two transmissible cancers in Tasmanian devils. Evolutionary Applications, 2019, 12, 1772-1780.	3.1	37

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37	Two of a kind: transmissible Schwann cell cancers in the endangered Tasmanian devil (Sarcophilus) Tj ETQq1 1 0.784314 rgBT /Overlock	5.4	28
38	Extreme Telomere Length Dimorphism in the Tasmanian Devil and Related Marsupials Suggests Parental Control of Telomere Length. PLoS ONE, 2012, 7, e46195.	2.5	27
39	Evolution and lineage dynamics of a transmissible cancer in Tasmanian devils. PLoS Biology, 2020, 18, e3000926.	5.6	23
40	Ancient <scp>DNA</scp> tracks the mainland extinction and island survival of the Tasmanian devil. Journal of Biogeography, 2018, 45, 963-976.	3.0	22
41	Molecular characterization of a marine turtle tumor epizootic, profiling external, internal and postsurgical regrowth tumors. Communications Biology, 2021, 4, 152.	4.4	20
42	Recurrent horizontal transfer identifies mitochondrial positive selection in a transmissible cancer. Nature Communications, 2020, 11, 3059.	12.8	18
43	Tasman-PCR: a genetic diagnostic assay for Tasmanian devil facial tumour diseases. Royal Society Open Science, 2018, 5, 180870.	2.4	17
44	Expansion of CORE-SINEs in the genome of the Tasmanian devil. BMC Genomics, 2012, 13, 172.	2.8	10
45	Evaluation of a genetic assay for canine transmissible venereal tumour diagnosis in Brazil. Veterinary and Comparative Oncology, 2017, 15, 615-618.	1.8	9
46	scanPAV: a pipeline for extracting presenceâ€"absence variations in genome pairs. Bioinformatics, 2018, 34, 3022-3024.	4.1	9
47	Transmissible tumours under the sea. Nature, 2016, 534, 628-629.	27.8	8
48	No evidence for clonal transmission of urogenital carcinoma in California sea lions (Zalophus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302	1.8	8
49	Sequencing skippy: the genome sequence of an Australian kangaroo, Macropus eugenii. Genome Biology, 2011, 12, 123.	9.6	6
50	Emergence, transmission and evolution of an uncommon enemy: Tasmanian devil facial tumour disease. , 2019, , 321-341.		4
51	Genotype data not consistent with clonal transmission of sea turtle fibropapillomatosis or goldfish schwannoma. Wellcome Open Research, 2021, 6, 219.	1.8	2
52	Sex disparity in oronasal presentations of canine transmissible venereal tumour. Veterinary Record, 0, , .	0.3	1
53	Cancer in the Wilderness. Cell, 2016, 166, 264-268.	28.9	0
54	Searching for transmissible cancers among the mussels of Europe. Molecular Ecology, 2022, 31, 719-722.	3.9	0

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55	Rising incidence of canine transmissible venereal tumours in the UK. Veterinary Record, 2021, 189, 472-474.	0.3	0
56	Evolution and lineage dynamics of a transmissible cancer in Tasmanian devils. , 2020, 18, e3000926.		0
57	Evolution and lineage dynamics of a transmissible cancer in Tasmanian devils. , 2020, 18, e3000926.		0
58	Evolution and lineage dynamics of a transmissible cancer in Tasmanian devils. , 2020, 18, e3000926.		0
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