

Matthew Breen

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.

133 papers	8,181 citations	46 h-index	89 g-index
139 ext. papers	9,362 ext. citations	5.9 avg, IF	5.31 L-index

#	Paper	IF	Citations
133	Genome sequence, comparative analysis and haplotype structure of the domestic dog. <i>Nature</i> , 2005 , 438, 803-19	50.4	1809
132	Genome of the marsupial <i>Monodelphis domestica</i> reveals innovation in non-coding sequences. <i>Nature</i> , 2007 , 447, 167-77	50.4	577
131	The genome of the green anole lizard and a comparative analysis with birds and mammals. <i>Nature</i> , 2011 , 477, 587-91	50.4	478
130	The dog as a cancer model. <i>Nature Biotechnology</i> , 2006 , 24, 1065-6	44.5	238
129	Three crocodilian genomes reveal ancestral patterns of evolution among archosaurs. <i>Science</i> , 2014 , 346, 1254449	33.3	231
128	Aniridia-associated cytogenetic rearrangements suggest that a position effect may cause the mutant phenotype. <i>Human Molecular Genetics</i> , 1995 , 4, 415-22	5.6	172
127	Comparative oncology: what dogs and other species can teach us about humans with cancer. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015 , 370,	5.8	169
126	Evolutionarily conserved cytogenetic changes in hematological malignancies of dogs and humans--man and his best friend share more than companionship. <i>Chromosome Research</i> , 2008 , 16, 145-54	4.4	165
125	A mutation in the canine BHD gene is associated with hereditary multifocal renal cystadenocarcinoma and nodular dermatofibrosis in the German Shepherd dog. <i>Human Molecular Genetics</i> , 2003 , 12, 3043-53	5.6	140
124	Reciprocal chromosome painting reveals detailed regions of conserved synteny between the karyotypes of the domestic dog (<i>Canis familiaris</i>) and human. <i>Genomics</i> , 1999 , 61, 145-55	4.3	136
123	Distinct B-cell and T-cell lymphoproliferative disease prevalence among dog breeds indicates heritable risk. <i>Cancer Research</i> , 2005 , 65, 5654-61	10.1	130
122	Perturbation of 14q32 miRNAs-cMYC gene network in osteosarcoma. <i>Bone</i> , 2012 , 50, 171-81	4.7	113
121	First comprehensive low-density horse linkage map based on two 3-generation, full-sibling, cross-bred horse reference families. <i>Genomics</i> , 2000 , 66, 123-34	4.3	106
120	Genome-wide analyses implicate 33 loci in heritable dog osteosarcoma, including regulatory variants near CDKN2A/B. <i>Genome Biology</i> , 2013 , 14, R132	18.3	100
119	Gene profiling of canine B-cell lymphoma reveals germinal center and postgerminal center subtypes with different survival times, modeling human DLBCL. <i>Cancer Research</i> , 2013 , 73, 5029-39	10.1	95
118	Molecular subtypes of osteosarcoma identified by reducing tumor heterogeneity through an interspecies comparative approach. <i>Bone</i> , 2011 , 49, 356-67	4.7	95
117	Origins and evolution of a transmissible cancer. <i>Evolution; International Journal of Organic Evolution</i> , 2009 , 63, 2340-9	3.8	92

116	An integrated 4249 marker FISH/RH map of the canine genome. <i>BMC Genomics</i> , 2004 , 5, 65	4.5	90
115	Genetical and physical assignments of equine microsatellites--first integration of anchored markers in horse genome mapping. <i>Mammalian Genome</i> , 1997 , 8, 267-73	3.2	87
114	A comprehensive genomic history of extinct and living elephants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E2566-E2574	11.5	86
113	Perspectives from man's best friend: National Academy of Medicine's Workshop on Comparative Oncology. <i>Science Translational Medicine</i> , 2016 , 8, 324ps5	17.5	85
112	The miR-17-92 cluster and its target THBS1 are differentially expressed in angiosarcomas dependent on MYC amplification. <i>Genes Chromosomes and Cancer</i> , 2012 , 51, 569-78	5	83
111	Alterations of the p53 and PIK3CA/AKT/mTOR pathways in angiosarcomas: a pattern distinct from other sarcomas with complex genomics. <i>Cancer</i> , 2012 , 118, 5878-87	6.4	82
110	Molecular analysis of a spontaneous dystrophin knockout dog. <i>Neuromuscular Disorders</i> , 1999 , 9, 289-95	5.9	81
109	Canine malignant hemangiosarcoma as a model of primitive angiogenic endothelium. <i>Laboratory Investigation</i> , 2004 , 84, 562-72	5.9	80
108	Molecular profiling reveals prognostically significant subtypes of canine lymphoma. <i>Veterinary Pathology</i> , 2013 , 50, 693-703	2.8	79
107	Refining tumor-associated aneuploidy through genomic recoding of recurrent DNA copy number aberrations in 150 canine non-Hodgkin lymphomas. <i>Leukemia and Lymphoma</i> , 2011 , 52, 1321-35	1.9	75
106	Molecular cytogenetic characterization of canine histiocytic sarcoma: A spontaneous model for human histiocytic cancer identifies deletion of tumor suppressor genes and highlights influence of genetic background on tumor behavior. <i>BMC Cancer</i> , 2011 , 11, 201	4.8	73
105	The DAPI banded karyotype of the domestic dog (<i>Canis familiaris</i>) generated using chromosome-specific paint probes. <i>Chromosome Research</i> , 1999 , 7, 401-6	4.4	72
104	The MTAP-CDKN2A locus confers susceptibility to a naturally occurring canine cancer. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2012 , 21, 1019-27	4	66
103	Influence of genetic background on tumor karyotypes: evidence for breed-associated cytogenetic aberrations in canine appendicular osteosarcoma. <i>Chromosome Research</i> , 2009 , 17, 365-377	4.4	66
102	Putting our heads together: insights into genomic conservation between human and canine intracranial tumors. <i>Journal of Neuro-Oncology</i> , 2009 , 94, 333-49	4.8	63
101	BRAF Mutations in Canine Cancers. <i>PLoS ONE</i> , 2015 , 10, e0129534	3.7	61
100	Creation of an NCI comparative brain tumor consortium: informing the translation of new knowledge from canine to human brain tumor patients. <i>Neuro-Oncology</i> , 2016 , 18, 1209-18	1	61
99	Characterization of canine osteosarcoma by array comparative genomic hybridization and RT-qPCR: signatures of genomic imbalance in canine osteosarcoma parallel the human counterpart. <i>Genes Chromosomes and Cancer</i> , 2011 , 50, 859-74	5	60

98	A genome-wide approach to comparative oncology: high-resolution oligonucleotide aCGH of canine and human osteosarcoma pinpoint shared microaberrations. <i>Cancer Genetics</i> , 2012 , 205, 572-87	2.3	59
97	Exome sequencing of lymphomas from three dog breeds reveals somatic mutation patterns reflecting genetic background. <i>Genome Research</i> , 2015 , 25, 1634-45	9.7	56
96	Interleukin-12 inhibits tumor growth in a novel angiogenesis canine hemangiosarcoma xenograft model. <i>Neoplasia</i> , 2004 , 6, 106-16	6.4	56
95	Identification of three molecular and functional subtypes in canine hemangiosarcoma through gene expression profiling and progenitor cell characterization. <i>American Journal of Pathology</i> , 2014 , 184, 985-995	5.8	55
94	Mutations of phosphatase and tensin homolog deleted from chromosome 10 in canine hemangiosarcoma. <i>Veterinary Pathology</i> , 2005 , 42, 618-32	2.8	53
93	The search for a marsupial XIC reveals a break with vertebrate synteny. <i>Chromosome Research</i> , 2007 , 15, 137-46	4.4	51
92	YAC mapping by FISH using Alu-PCR-generated probes. <i>Genomics</i> , 1992 , 13, 726-30	4.3	50
91	Genome-wide association study identifies shared risk loci common to two malignancies in golden retrievers. <i>PLoS Genetics</i> , 2015 , 11, e1004922	6	49
90	Detection of BRAF Mutation in Urine DNA as a Molecular Diagnostic for Canine Urothelial and Prostatic Carcinoma. <i>PLoS ONE</i> , 2015 , 10, e0144170	3.7	48
89	A primary male autosomal linkage map of the horse genome. <i>Genome Research</i> , 1998 , 8, 951-66	9.7	48
88	Genomic profiling reveals extensive heterogeneity in somatic DNA copy number aberrations of canine hemangiosarcoma. <i>Chromosome Research</i> , 2014 , 22, 305-19	4.4	46
87	Anchoring the dog to its relatives reveals new evolutionary breakpoints across 11 species of the Canidae and provides new clues for the role of B chromosomes. <i>Chromosome Research</i> , 2011 , 19, 685-708	4.4	44
86	A novel canine lymphoma cell line: a translational and comparative model for lymphoma research. <i>Leukemia Research</i> , 2007 , 31, 1709-20	2.7	44
85	Construction of a 2-Mb resolution BAC microarray for CGH analysis of canine tumors. <i>Genome Research</i> , 2005 , 15, 1831-7	9.7	44
84	Canine TCOF1; cloning, chromosome assignment and genetic analysis in dogs with different head types. <i>Mammalian Genome</i> , 2001 , 12, 622-9	3.2	43
83	Genomic sequences of bovine papillomaviruses in formalin-fixed sarcoids from Australian horses revealed by polymerase chain reaction. <i>Veterinary Microbiology</i> , 1994 , 41, 163-72	3.3	42
82	Comparative cytogenetic characterization of primary canine melanocytic lesions using array CGH and fluorescence in situ hybridization. <i>Chromosome Research</i> , 2015 , 23, 171-86	4.4	41
81	Canine urothelial carcinoma: genomically aberrant and comparatively relevant. <i>Chromosome Research</i> , 2015 , 23, 311-31	4.4	40

80	Growth requirements and chromosomal instability of induced pluripotent stem cells generated from adult canine fibroblasts. <i>Stem Cells and Development</i> , 2013 , 22, 951-63	4.4	40
79	Is Recurrently Mutated in Whole-Exome Sequenced Canine Osteosarcoma. <i>Cancer Research</i> , 2018 , 78, 3421-3431	10.1	38
78	Localization and characterization of nucleotide sequences from the canine Y chromosome. <i>Chromosome Research</i> , 1999 , 7, 223-33	4.4	38
77	Peto's paradox and the promise of comparative oncology. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015 , 370,	5.8	37
76	Canine cytogenetics--from band to basepair. <i>Cytogenetic and Genome Research</i> , 2008 , 120, 50-60	1.9	35
75	Inactivation of the p16 cyclin-dependent kinase inhibitor in high-grade canine non-Hodgkin's T-cell lymphoma. <i>Veterinary Pathology</i> , 2007 , 44, 467-78	2.8	35
74	Comparative Genomics Reveals Shared Mutational Landscape in Canine Hemangiosarcoma and Human Angiosarcoma. <i>Molecular Cancer Research</i> , 2019 , 17, 2410-2421	6.6	33
73	Mature hair follicles generated from dissociated cells: a universal mechanism of folliculoneogenesis. <i>Developmental Dynamics</i> , 2010 , 239, 2619-26	2.9	32
72	Safe and Effective Sarcoma Therapy through Bispecific Targeting of EGFR and uPAR. <i>Molecular Cancer Therapeutics</i> , 2017 , 16, 956-965	6.1	30
71	Predictive value of p16 or Rb inactivation in a model of naturally occurring canine non-Hodgkin's lymphoma. <i>Leukemia</i> , 2007 , 21, 184-7	10.7	30
70	Somatic inactivating PTPRJ mutations and dysregulated pathways identified in canine malignant melanoma by integrated comparative genomic analysis. <i>PLoS Genetics</i> , 2018 , 14, e1007589	6	30
69	Development of a brain metastatic canine prostate cancer cell line. <i>Prostate</i> , 2011 , 71, 1251-63	4.2	28
68	The cnm locus, a canine homologue of human autosomal forms of centronuclear myopathy, maps to chromosome 2. <i>Human Genetics</i> , 2003 , 113, 297-306	6.3	28
67	A cytogenetically characterized, genome-anchored 10-Mb BAC set and CGH array for the domestic dog. <i>Journal of Heredity</i> , 2007 , 98, 474-84	2.4	27
66	Canine homolog of the T-box transcription factor T; failure of the protein to bind to its DNA target leads to a short-tail phenotype. <i>Mammalian Genome</i> , 2001 , 12, 212-8	3.2	27
65	IDH1 and IDH2 hotspot mutations are not found in canine glioma. <i>International Journal of Cancer</i> , 2010 , 127, 245-6	7.5	26
64	Chromosomal localization of acidic and basic keratin genes of the domestic dog. <i>Mammalian Genome</i> , 1999 , 10, 371-5	3.2	26
63	Association of breed and histopathological grade in canine mast cell tumours. <i>Veterinary and Comparative Oncology</i> , 2017 , 15, 829-839	2.5	25

62	Canine prostate cancer cell line (Probasco) produces osteoblastic metastases in vivo. <i>Prostate</i> , 2014 , 74, 1251-65	4.2	24
61	Genome-wide assessment of recurrent genomic imbalances in canine leukemia identifies evolutionarily conserved regions for subtype differentiation. <i>Chromosome Research</i> , 2015 , 23, 681-708	4.4	23
60	Update on genomics in veterinary oncology. <i>Topics in Companion Animal Medicine</i> , 2009 , 24, 113-21	1.1	23
59	Integrated cytogenetic BAC map of the genome of the gray, short-tailed opossum, <i>Monodelphis domestica</i> . <i>Chromosome Research</i> , 2007 , 15, 361-70	4.4	22
58	Molecular cytogenetic analysis of a novel high-grade canine T-lymphoblastic lymphoma demonstrating co-expression of CD3 and CD79a cell markers. <i>Chromosome Research</i> , 2001 , 9, 649-57	4.4	22
57	Definition of the cattle killer cell Ig-like receptor gene family: comparison with aurochs and human counterparts. <i>Journal of Immunology</i> , 2014 , 193, 6016-30	5.3	20
56	BCR-ABL translocation in a dog with chronic monocytic leukemia. <i>Veterinary Clinical Pathology</i> , 2011 , 40, 40-7	1	20
55	FLT3 mutations in canine acute lymphocytic leukemia. <i>BMC Cancer</i> , 2011 , 11, 38	4.8	20
54	Acute myeloblastic leukemia with associated BCR-ABL translocation in a dog. <i>Veterinary Clinical Pathology</i> , 2012 , 41, 362-368	1	19
53	Extensive conservation of genomic imbalances in canine transmissible venereal tumors (CTVT) detected by microarray-based CGH analysis. <i>Chromosome Research</i> , 2009 , 17, 927-34	4.4	19
52	Tackling the characterization of canine chromosomal breakpoints with an integrated in-situ/in-silico approach: the canine PAR and PAB. <i>Chromosome Research</i> , 2008 , 16, 1193-202	4.4	18
51	Cloning of the canine gene encoding transcription factor Pit-1 and its exclusion as candidate gene in a canine model of pituitary dwarfism. <i>Mammalian Genome</i> , 2000 , 11, 31-6	3.2	16
50	Cerebellar cortical degeneration in adult American Staffordshire Terriers. <i>Journal of Veterinary Internal Medicine</i> , 2004 , 18, 201-8	3.1	15
49	Genomic profiling of canine mast cell tumors identifies DNA copy number aberrations associated with KIT mutations and high histological grade. <i>Chromosome Research</i> , 2017 , 25, 129-143	4.4	14
48	CD40 ligand is necessary and sufficient to support primary diffuse large B-cell lymphoma cells in culture: a tool for in vitro preclinical studies with primary B-cell malignancies. <i>Leukemia and Lymphoma</i> , 2012 , 53, 1390-8	1.9	14
47	Molecular characterization of canine BCR-ABL-positive chronic myelomonocytic leukemia before and after chemotherapy. <i>Veterinary Clinical Pathology</i> , 2013 , 42, 314-22	1	14
46	Microarray-based cytogenetic profiling reveals recurrent and subtype-associated genomic copy number aberrations in feline sarcomas. <i>Chromosome Research</i> , 2009 , 17, 987-1000	4.4	13
45	Mapping of 13 horse genes by fluorescence in-situ hybridization (FISH) and somatic cell hybrid analysis. <i>Chromosome Research</i> , 2001 , 9, 53-9	4.4	13

44	Partial cytogenetic response with toceranib and prednisone treatment in a young dog with chronic monocytic leukemia. <i>Anti-Cancer Drugs</i> , 2013 , 24, 1098-103	2.4	11
43	Array-based comparative genomic hybridization-guided identification of reference genes for normalization of real-time quantitative polymerase chain reaction assay data for lymphomas, histiocytic sarcomas, and osteosarcomas of dogs. <i>American Journal of Veterinary Research</i> , 2012 , 73, 1335-43	1.1	11
42	Comparative Exposure Assessment Using Silicone Passive Samplers Indicates That Domestic Dogs Are Sentinels To Support Human Health Research. <i>Environmental Science & Technology</i> , 2020 , 54, 7409-7419	10.3	10
41	Growth kinetics of endosymbiont Wolbachia in the common bed bug, Cimex lectularius. <i>Scientific Reports</i> , 2018 , 8, 11444	4.9	10
40	Sequence analysis of RAS and RAF mutation hot spots in canine carcinoma. <i>Veterinary and Comparative Oncology</i> , 2017 , 15, 1598-1605	2.5	10
39	An integrated cytogenetic, radiation-hybrid, and comparative map of dog chromosome 5. <i>Mammalian Genome</i> , 2001 , 12, 371-5	3.2	10
38	A novel canine kidney cell line model for the evaluation of neoplastic development: karyotype evolution associated with spontaneous immortalization and tumorigenicity. <i>Chromosome Research</i> , 2015 , 23, 663-80	4.4	9
37	Detection of Copy Number Imbalance in Canine Urothelial Carcinoma With Droplet Digital Polymerase Chain Reaction. <i>Veterinary Pathology</i> , 2016 , 53, 764-72	2.8	9
36	Comparative Aspects of BRAF Mutations in Canine Cancers. <i>Veterinary Sciences</i> , 2015 , 2, 231-245	2.4	9
35	Generation and characterization of novel canine malignant mast cell line CL1. <i>Veterinary Immunology and Immunopathology</i> , 2009 , 127, 114-24	2	9
34	PTPN11 mutations in canine and human disseminated histiocytic sarcoma. <i>International Journal of Cancer</i> , 2020 , 147, 1657-1665	7.5	8
33	Molecular prevalence of Bartonella, Babesia, and hemotropic Mycoplasma species in dogs with hemangiosarcoma from across the United States. <i>PLoS ONE</i> , 2020 , 15, e0227234	3.7	8
32	Novel Noninvasive Diagnostics. <i>Veterinary Clinics of North America - Small Animal Practice</i> , 2019 , 49, 781-791	7.1	8
31	Gene selection and cancer type classification of diffuse large-B-cell lymphoma using a bivariate mixture model for two-species data. <i>Human Genomics</i> , 2013 , 7, 2	6.8	8
30	A cultured approach to canine urothelial carcinoma: molecular characterization of five cell lines. <i>Canine Genetics and Epidemiology</i> , 2015 , 2, 15	2.8	8
29	Molecular characterization and chromosomal assignment of the canine protein C gene. <i>Mammalian Genome</i> , 1999 , 10, 134-9	3.2	7
28	Canine Histiocytic Malignancies-Challenges and Opportunities. <i>Veterinary Sciences</i> , 2016 , 3,	2.4	7
27	Construction and integration of radiation-hybrid and cytogenetic maps of dog Chromosome X. <i>Mammalian Genome</i> , 2003 , 14, 214-21	3.2	6

26	Genomic organization of the dog dystroglycan gene DAG1 locus on chromosome 20q15.1-q15.2. <i>Genome Research</i> , 2000 , 10, 295-301	9.7	6
25	Constitutive activation of alternative nuclear factor kappa B pathway in canine diffuse large B-cell lymphoma contributes to tumor cell survival and is a target of new adjuvant therapies. <i>Leukemia and Lymphoma</i> , 2017 , 58, 1702-1710	1.9	5
24	Lack of influence by endosymbiont Wolbachia on virus titer in the common bed bug, Cimex lectularius. <i>Parasites and Vectors</i> , 2019 , 12, 436	4	5
23	Bovine papillomavirus type 5: partial sequence and comparison with other bovine papillomaviruses. <i>Virus Genes</i> , 1997 , 14, 171-4	2.3	5
22	Comprehensive genomic characterization of five canine lymphoid tumor cell lines. <i>BMC Veterinary Research</i> , 2016 , 12, 207	2.7	5
21	Genome-wide DNA copy number analysis and targeted transcriptional analysis of canine histiocytic malignancies identifies diagnostic signatures and highlights disruption of spindle assembly complex. <i>Chromosome Research</i> , 2019 , 27, 179-202	4.4	4
20	An Overview of Molecular Cancer Pathogenesis, Prognosis, and Diagnosis 2016 , 1-26		4
19	The chromosomes of two horse [zebra hybrids; E. caballus [E. grevyi and E. burchelli. <i>Hereditas</i> , 1991 , 115, 169-175	2.4	4
18	Evaluation of gene expression and DNA copy number profiles of adipose tissue-derived stromal cells and consecutive neurosphere-like cells generated from dogs with naturally occurring spinal cord injury. <i>American Journal of Veterinary Research</i> , 2017 , 78, 371-380	1.1	3
17	Molecular analysis and chromosomal assignment of the canine CALC-I/alpha-CGRP gene. <i>Mammalian Genome</i> , 2000 , 11, 736-40	3.2	3
16	The Dog Gene Map. <i>ILAR Journal</i> , 1998 , 39, 177-181	1.7	3
15	Enhancement of extra chromosomal recombination in somatic cells by affecting the ratio of homologous recombination (HR) to non-homologous end joining (NHEJ). <i>Animal Biotechnology</i> , 2008 , 19, 6-21	1.4	2
14	A high-resolution comparative map of canine Chromosome 5q14.3-q33 constructed utilizing the 1.5x canine genome sequence. <i>Mammalian Genome</i> , 2004 , 15, 544-51	3.2	2
13	Genomic analysis reveals shared genes and pathways in human and canine angiosarcoma		2
12	Malignant canine mammary tumours: Preliminary genomic insights using oligonucleotide array comparative genomic hybridisation analysis. <i>Veterinary Journal</i> , 2017 , 222, 68-71	2.5	1
11	Relationship Between Sequence Homology, Genome Architecture, and Meiotic Behavior of the Sex Chromosomes in North American Voles. <i>Genetics</i> , 2018 , 210, 83-97	4	1
10	Parentage verification of a mountain zebra (<i>Equus zebra hartmannae</i>) using polymorphic microsatellite markers. <i>Zoo Biology</i> , 1995 , 14, 475-479	1.6	1
9	Development of a Genome-Wide Oligonucleotide Microarray Platform for Detection of DNA Copy Number Aberrations in Feline Cancers. <i>Veterinary Sciences</i> , 2020 , 7,	2.4	1

8	Genomically Complex Human Angiosarcoma and Canine Hemangiosarcoma Establish Convergent Angiogenic Transcriptional Programs Driven by Novel Gene Fusions. <i>Molecular Cancer Research</i> , 2021 , 19, 847-861	6.6	1
7	Hi-C scaffolded short- and long-read genome assemblies of the California sea lion are broadly consistent for syntenic inference across 45 million years of evolution. <i>Molecular Ecology Resources</i> , 2021 , 21, 2455-2470	8.4	1
6	Transcriptomic profiling in canines and humans reveals cancer specific gene modules and biological mechanisms common to both species. <i>PLoS Computational Biology</i> , 2021 , 17, e1009450	5	1
5	Comparative Cytogenetics 2015 , 1-7		
4	Cytogenetics 2020 , 85-93		
3	Application of an established canine genotyping method to a sequence-based approach. <i>Forensic Science International Animals and Environments</i> , 2021 , 1, 100029		
2	Pathology in Practice.. <i>Journal of the American Veterinary Medical Association</i> , 2022 , 259, 1-3	1	
1	Transcriptome annotation reveals minimal immunogenetic diversity among Wyoming toads, <i>Anaxyrus baxteri</i> . <i>Conservation Genetics</i> ,1	2.6	