

Rory J Todhunter

List of Publications by Year in descending order

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84
papers

5,029
citations

212478

28
h-index

111975

67
g-index

86
all docs

86
docs citations

86
times ranked

6379
citing authors

#	ARTICLE	IF	CITATIONS
1	Mining the 99 Lives Cat Genome Sequencing Consortium database implicates genes and variants for the <i>Ticked</i> locus in domestic cats (<i>Felis catus</i>). <i>Animal Genetics</i> , 2021, 52, 321-332.	0.6	9
2	Genomic Prediction of Two Complex Orthopedic Traits Across Multiple Pure and Mixed Breed Dogs. <i>Frontiers in Genetics</i> , 2021, 12, 666740.	1.1	4
3	Decreased incidence of perioperative inadvertent hypothermia and faster anesthesia recovery with increased environmental temperature: A nonrandomized controlled study. <i>Veterinary Surgery</i> , 2020, 49, 256-264.	0.5	9
4	Synovial fluid lubricin increases in spontaneous canine cruciate ligament rupture. <i>Scientific Reports</i> , 2020, 10, 16725.	1.6	6
5	Mutations in the Kinesin-2 Motor KIF3B Cause an Autosomal-Dominant Ciliopathy. <i>American Journal of Human Genetics</i> , 2020, 106, 893-904.	2.6	29
6	Bayesian and Machine Learning Models for Genomic Prediction of Anterior Cruciate Ligament Rupture in the Canine Model. <i>G3: Genes, Genomes, Genetics</i> , 2020, 10, 2619-2628.	0.8	14
7	Genetic mapping of distal femoral, stifle, and tibial radiographic morphology in dogs with cranial cruciate ligament disease. <i>PLoS ONE</i> , 2019, 14, e0223094.	1.1	9
8	Imputation of canine genotype array data using 365 whole-genome sequences improves power of genome-wide association studies. <i>PLoS Genetics</i> , 2019, 15, e1008003.	1.5	32
9	Cardiac Pathology and Genomics of Sudden Death in Racehorses From New York and Maryland Racetracks. <i>Veterinary Pathology</i> , 2019, 56, 576-585.	0.8	9
10	Spontaneous dog osteoarthritis – a One Medicine vision. <i>Nature Reviews Rheumatology</i> , 2019, 15, 273-287.	3.5	70
11	Gene expression in hip soft tissues in incipient canine hip dysplasia and osteoarthritis. <i>Journal of Orthopaedic Research</i> , 2019, 37, 313-324.	1.2	20
12	Demographics of hip dysplasia in the Maine Coon cat. <i>Journal of Feline Medicine and Surgery</i> , 2018, 20, 302-307.	0.6	11
13	Canine hip dysplasia: A natural animal model for human developmental dysplasia of the hip. <i>Journal of Orthopaedic Research</i> , 2018, 36, 1807-1817.	1.2	38
14	Joint Genomic Prediction of Canine Hip Dysplasia in UK and US Labrador Retrievers. <i>Frontiers in Genetics</i> , 2018, 9, 101.	1.1	8
15	Retrospective study of factors associated with surgical site infection in dogs following tibial plateau leveling osteotomy. <i>Journal of the American Veterinary Medical Association</i> , 2018, 253, 315-321.	0.2	23
16	Genetic mapping of principal components of canine pelvic morphology. <i>Canine Genetics and Epidemiology</i> , 2017, 4, 4.	2.9	7
17	The Demographics of Canine Hip Dysplasia in the United States and Canada. <i>Journal of Veterinary Medicine</i> , 2017, 2017, 1-15.	1.6	12
18	A novel iterative mixed model to remap three complex orthopedic traits in dogs. <i>PLoS ONE</i> , 2017, 12, e0176932.	1.1	16

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19	Long Term Functional Outcome of Tibial Tuberosity Advancement vs. Tibial Plateau Leveling Osteotomy and Extracapsular Repair in a Heterogeneous Population of Dogs. <i>Veterinary Surgery</i> , 2016, 45, 261-268.	0.5	82
20	The Norberg angle is not an accurate predictor of canine hip conformation based on the distraction index and the dorsolateral subluxation score. <i>Preventive Veterinary Medicine</i> , 2016, 135, 47-52.	0.7	29
21	Reply to Wang et al.: Sequencing datasets do not refute Central Asian domestication origin of dogs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E2556-E2557.	3.3	1
22	Complex disease and phenotype mapping in the domestic dog. <i>Nature Communications</i> , 2016, 7, 10460.	5.8	220
23	The associations between serum adiponectin, leptin, C-reactive protein, insulin, and serum long-chain omega-3 fatty acids in Labrador Retrievers. <i>Veterinary Medicine: Research and Reports</i> , 2015, 6, 103.	0.4	2
24	Genetic structure in village dogs reveals a Central Asian domestication origin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 13639-13644.	3.3	192
25	Precision and Accuracy of Ground Reaction Force Normalization in a Heterogeneous Population of Dogs. <i>Veterinary Surgery</i> , 2014, 43, 437-445.	0.5	19
26	Effect of Ulnar Osteotomy on Intra-articular Pressure Mapping and Contact Mechanics of the Congruent and Incongruent Canine Elbow <i>Ex Vivo</i> . <i>Veterinary Surgery</i> , 2014, 43, 339-346.	0.5	13
27	Cubital Subchondral Joint Space Width and CT Osteoabsorptiometry in Dogs With and Without Fragmented Medial Coronoid Process. <i>Veterinary Surgery</i> , 2014, 43, 330-338.	0.5	13
28	Long-Term Functional Outcome of Tibial Plateau Leveling Osteotomy Versus Extracapsular Repair in a Heterogeneous Population of Dogs. <i>Veterinary Surgery</i> , 2013, 42, 38-50.	0.5	80
29	Principal component analysis of canine hip dysplasia phenotypes and their statistical power for genome-wide association mapping. <i>Journal of Applied Statistics</i> , 2013, 40, 235-251.	0.6	4
30	Monitoring Hip and Elbow Dysplasia Achieved Modest Genetic Improvement of 74 Dog Breeds over 40 Years in USA. <i>PLoS ONE</i> , 2013, 8, e76390.	1.1	32
31	Identification of quantitative trait loci for canine hip dysplasia by two sequential multipoint linkage analyses. <i>Journal of Applied Statistics</i> , 2012, 39, 1719-1731.	0.6	5
32	Evaluation of Tibial Torsion in Yorkshire Terriers with and without Medial Patellar Luxation. <i>Veterinary Surgery</i> , 2012, 41, 966-972.	0.5	18
33	The <i>S</i> -Measurement in the Diagnosis of Canine Hip Dysplasia. <i>Veterinary Surgery</i> , 2012, 41, 78-85.	0.5	2
34	Evaluation of a fibrillin 2 gene haplotype associated with hip dysplasia and incipient osteoarthritis in dogs. <i>American Journal of Veterinary Research</i> , 2011, 72, 530-540.	0.3	34
35	Femoral Head Bone Mineral Density Patterns May Identify Hips at Risk of Degeneration. <i>Annals of Biomedical Engineering</i> , 2011, 39, 75-84.	1.3	7
36	Femoral Head Shape Differences During Development May Identify Hips at Risk of Degeneration. <i>Annals of Biomedical Engineering</i> , 2011, 39, 2955-2963.	1.3	7

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37	Comparison of plasma and peritoneal indices of fibrinolysis between foals and adult horses with and without colic. <i>American Journal of Veterinary Research</i> , 2011, 72, 1535-1540.	0.3	13
38	Mixed linear model approach adapted for genome-wide association studies. <i>Nature Genetics</i> , 2010, 42, 355-360.	9.4	2,022
39	Retrospective Analysis for Genetic Improvement of Hip Joints of Cohort Labrador Retrievers in the United States: 1970–2007. <i>PLoS ONE</i> , 2010, 5, e9410.	1.1	42
40	Differential Genetic Regulation of Canine Hip Dysplasia and Osteoarthritis. <i>PLoS ONE</i> , 2010, 5, e13219.	1.1	52
41	Complex population structure in African village dogs and its implications for inferring dog domestication history. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 13903-13908.	3.3	141
42	Estimation of heritabilities, genetic correlations, and breeding values of four traits that collectively define hip dysplasia in dogs. <i>American Journal of Veterinary Research</i> , 2009, 70, 483-492.	0.3	49
43	Development and use of DNA archives at veterinary teaching hospitals to investigate the genetic basis of disease in dogs. <i>Journal of the American Veterinary Medical Association</i> , 2009, 234, 75-80.	0.2	11
44	The long (and winding) road to gene discovery for canine hip dysplasia. <i>Veterinary Journal</i> , 2009, 181, 97-110.	0.6	39
45	Evaluation of quantitative trait loci for hip dysplasia in Labrador Retrievers. <i>American Journal of Veterinary Research</i> , 2009, 70, 1094-1101.	0.3	14
46	Simulation Appraisal of the Adequacy of Number of Background Markers for Relationship Estimation in Association Mapping. <i>Plant Genome</i> , 2009, 2, .	1.6	66
47	Identification of quantitative trait loci for osteoarthritis of hip joints in dogs. <i>American Journal of Veterinary Research</i> , 2008, 69, 1294-1300.	0.3	22
48	Quantitative genetics of secondary hip joint osteoarthritis in a Labrador Retriever–Greyhound pedigree. <i>American Journal of Veterinary Research</i> , 2007, 68, 35-41.	0.3	14
49	Linkage and Segregation Analysis of Black and Brindle Coat Color in Domestic Dogs. <i>Genetics</i> , 2007, 176, 1679-1689.	1.2	69
50	A random model for mapping imprinted quantitative trait loci in a structured pedigree: An implication for mapping canine hip dysplasia. <i>Genomics</i> , 2007, 90, 276-284.	1.3	20
51	MAGNETIC RESONANCE IMAGING OF SUBARTICULAR BONE MARROW LESIONS IN DOGS WITH STIFLE LAMENESS. <i>Veterinary Radiology and Ultrasound</i> , 2007, 48, 312-317.	0.4	27
52	Use of a centrifugation-based, point-of-care device for production of canine autologous bone marrow and platelet concentrates. <i>American Journal of Veterinary Research</i> , 2006, 67, 1655-1661.	0.3	22
53	Effect of Early Postnatal Body Weight on Femoral Head Ossification Onset and Hip Osteoarthritis in a Canine Model of Developmental Dysplasia of the Hip. <i>Pediatric Research</i> , 2006, 60, 549-554.	1.1	19
54	Assessment of bone mineral density of the femoral head in dogs with early osteoarthritis. <i>American Journal of Veterinary Research</i> , 2006, 67, 796-800.	0.3	23

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55	In vitro analysis of nonthermal plasma as a disinfecting agent. American Journal of Veterinary Research, 2006, 67, 2030-2035.	0.3	13
56	Modeling Extent and Distribution of Zygotic Disequilibrium: Implications for a Multigenerational Canine Pedigree. Genetics, 2006, 174, 439-453.	1.2	19
57	Quantitative trait loci for hip dysplasia in a crossbreed canine pedigree. Mammalian Genome, 2005, 16, 720-730.	1.0	64
58	Analysis of Allele Fidelity, Polymorphic Information Content, and Density of Microsatellites in a Genome-Wide Screening for Hip Dysplasia in a Crossbreed Pedigree. Journal of Heredity, 2005, 96, 847-853.	1.0	45
59	Introduction to Veterinary Genetics (2nd edition) . . . Handbook of Behavior Problems of the Dog and Cat (2nd edition) . . . BSAVA Manual of Canine and Feline Neurology (3rd edition) . . . Essential Facts of Physiotherapy in Dogs and Cats: Rehabilitation and Pain Management . . . Minnesota Veterinary Images 2004 . . . Color Atlas of Diseases and Disorders of Cattle (2nd edition):Introduction to Veterinary Genetics (2nd edition):Handbook of Behavior Problems of the Dog and Cat (2nd Tj FTOq1 1 0.784314 rgBT /Overlock 10	0.2	0
60	A General Statistical Framework for Unifying Interval and Linkage Disequilibrium Mapping. Journal of the American Statistical Association, 2005, 100, 158-171.	1.8	20
61	Increased MIG-6 mRNA transcripts in osteoarthritic cartilage. Biochemical and Biophysical Research Communications, 2005, 332, 482-486.	1.0	15
62	The potential and limitations of cartilage-specific (V+C) α^2 fibronectin and cartilage oligomeric matrix protein as osteoarthritis biomarkers in canine synovial fluid. Osteoarthritis and Cartilage, 2004, 12, 818-825.	0.6	17
63	Effect of dorsal hip loading, sedation, and general anesthesia on the dorsolateral subluxation score in dogs. Veterinary Surgery, 2003, 32, 196-205.	0.5	17
64	The extent and distribution of linkage disequilibrium in a multi-hierarchic outbred canine pedigree. Mammalian Genome, 2003, 14, 555-564.	1.0	18
65	Thoracolumbar Spinal Cord Compression Due to Vertebral Process Degenerative Joint Disease in a Family of Shiloh Shepherd Dogs. Journal of Veterinary Internal Medicine, 2003, 17, 530-537.	0.6	13
66	Genetic Structure of Susceptibility Traits for Hip Dysplasia and Microsatellite Informativeness of an Outcrossed Canine Pedigree. , 2003, 94, 39-48.		44
67	Power of a Labrador Retriever-Greyhound pedigree for linkage analysis of hip dysplasia and osteoarthritis. American Journal of Veterinary Research, 2003, 64, 418-424.	0.3	30
68	Evaluation of multiple radiographic predictors of cartilage lesions in the hip joints of eight-month-old dogs. American Journal of Veterinary Research, 2003, 64, 1472-1478.	0.3	29
69	Usefulness, completeness, and accuracy of Web sites providing information on osteoarthritis in dogs. Journal of the American Veterinary Medical Association, 2003, 223, 1272-1275.	0.2	19
70	Quantitative genetics of traits associated with hip dysplasia in a canine pedigree constructed by mating dysplastic Labrador Retrievers with unaffected Greyhounds. American Journal of Veterinary Research, 2002, 63, 1029-1035.	0.3	29
71	Comparison of three radiographic methods for diagnosis of hip dysplasia in eight-month-old dogs. Journal of the American Veterinary Medical Association, 2001, 219, 1242-1246.	0.2	47
72	Corticosteroids alter the differentiated phenotype of articular chondrocytes. Journal of Orthopaedic Research, 2001, 19, 688-695.	1.2	64

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73	Repeatability of dorsolateral subluxation scores in dogs and correlation with macroscopic appearance of hip osteoarthritis. <i>American Journal of Veterinary Research</i> , 2001, 62, 1711-1715.	0.3	32
74	The effects of methylprednisolone on normal and monocyte-conditioned medium-treated articular cartilage from dogs and horses. <i>Veterinary Surgery</i> , 2000, 29, 546-557.	0.5	28
75	Effect of Polysulfated Glycosaminoglycan on DNA Content and Proteoglycan Metabolism in Normal and Osteoarthritic Canine Articular Cartilage Explants. <i>Veterinary Surgery</i> , 2000, 29, 407-414.	0.5	21
76	Comparison of the trotting gaits of Labrador Retrievers and Greyhounds. <i>American Journal of Veterinary Research</i> , 2000, 61, 832-838.	0.3	148
77	An outcrossed canine pedigree for linkage analysis of hip dysplasia. , 1999, 90, 83-92.		46
78	Dorsolateral Subluxation of Hip Joints in Dogs Measured in a Weight-bearing Position With Radiography and Computed Tomography. <i>Veterinary Surgery</i> , 1998, 27, 393-405.	0.5	106
79	Acute synovitis and intra-articular methylprednisolone acetate in ponies. <i>Osteoarthritis and Cartilage</i> , 1998, 6, 94-105.	0.6	36
80	Slow-Acting, Disease-Modifying Osteoarthritis Agents. <i>Veterinary Clinics of North America - Small Animal Practice</i> , 1997, 27, 863-881.	0.5	39
81	Effect of methylprednisolone and mechanical loading on canine articular cartilage in explant culture. <i>Osteoarthritis and Cartilage</i> , 1996, 4, 55-62.	0.6	23
82	Chondrocyte-fibrin matrix transplants for resurfacing extensive articular cartilage defects. <i>Journal of Orthopaedic Research</i> , 1994, 12, 485-497.	1.2	264
83	Exposure and Postoperative Stability of Three Medial Surgical Approaches to the Canine Elbow. <i>Veterinary Surgery</i> , 1994, 23, 87-93.	0.5	7
84	Surgical Repair of an Esophageal Stricture in a Horse. <i>Veterinary Surgery</i> , 1987, 16, 251-254.	0.5	24