

# Rory J Todhunter

## List of Publications by Year in descending order

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84  
papers

5,029  
citations

186265  
28  
h-index

98798  
67  
g-index

86  
all docs

86  
docs citations

86  
times ranked

5715  
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.	1.7	9
2	Genomic Prediction of Two Complex Orthopedic Traits Across Multiple Pure and Mixed Breed Dogs. <i>Frontiers in Genetics</i> , 2021, 12, 666740.	2.3	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.	1.0	9
4	Synovial fluid lubricin increases in spontaneous canine cruciate ligament rupture. <i>Scientific Reports</i> , 2020, 10, 16725.	3.3	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.	6.2	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.	1.8	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.	2.5	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.	3.5	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.	1.7	9
10	Spontaneous dog osteoarthritis – a One Medicine vision. <i>Nature Reviews Rheumatology</i> , 2019, 15, 273-287.	8.0	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.	2.3	20
12	Demographics of hip dysplasia in the Maine Coon cat. <i>Journal of Feline Medicine and Surgery</i> , 2018, 20, 302-307.	1.6	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.	2.3	38
14	Joint Genomic Prediction of Canine Hip Dysplasia in UK and US Labrador Retrievers. <i>Frontiers in Genetics</i> , 2018, 9, 101.	2.3	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.	0.5	23
16	Genetic mapping of principal components of canine pelvic morphology. <i>Canine Genetics and Epidemiology</i> , 2017, 4, 4.	2.8	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.	2.5	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.	1.0	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.	1.9	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.	7.1	1
22	Complex disease and phenotype mapping in the domestic dog. <i>Nature Communications</i> , 2016, 7, 10460.	12.8	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.	0.6	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.	7.1	192
25	Precision and Accuracy of Ground Reaction Force Normalization in a Heterogeneous Population of Dogs. <i>Veterinary Surgery</i> , 2014, 43, 437-445.	1.0	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.	1.0	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.	1.0	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.	1.0	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.	1.3	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.	2.5	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.	1.3	5
32	Evaluation of Tibial Torsion in Yorkshire Terriers with and without Medial Patellar Luxation. <i>Veterinary Surgery</i> , 2012, 41, 966-972.	1.0	18
33	The $\Delta$ Measurement in the Diagnosis of Canine Hip Dysplasia. <i>Veterinary Surgery</i> , 2012, 41, 78-85.	1.0	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.	0.6	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.	2.5	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.	2.5	7

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37	Comparison of plasma and peritoneal indices of fibrinolysis between foals and adult horses with and without colic. American Journal of Veterinary Research, 2011, 72, 1535-1540.	0.6	13
38	Mixed linear model approach adapted for genome-wide association studies. Nature Genetics, 2010, 42, 355-360.	21.4	2,022
39	Retrospective Analysis for Genetic Improvement of Hip Joints of Cohort Labrador Retrievers in the United States: 1970–2007. PLoS ONE, 2010, 5, e9410.	2.5	42
40	Differential Genetic Regulation of Canine Hip Dysplasia and Osteoarthritis. PLoS ONE, 2010, 5, e13219.	2.5	52
41	Complex population structure in African village dogs and its implications for inferring dog domestication history. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 13903-13908.	7.1	141
42	Estimation of heritabilities, genetic correlations, and breeding values of four traits that collectively define hip dysplasia in dogs. American Journal of Veterinary Research, 2009, 70, 483-492.	0.6	49
43	Development and use of DNA archives at veterinary teaching hospitals to investigate the genetic basis of disease in dogs. Journal of the American Veterinary Medical Association, 2009, 234, 75-80.	0.5	11
44	The long (and winding) road to gene discovery for canine hip dysplasia. Veterinary Journal, 2009, 181, 97-110.	1.7	39
45	Evaluation of quantitative trait loci for hip dysplasia in Labrador Retrievers. American Journal of Veterinary Research, 2009, 70, 1094-1101.	0.6	14
46	Simulation Appraisal of the Adequacy of Number of Background Markers for Relationship Estimation in Association Mapping. Plant Genome, 2009, 2, .	2.8	66
47	Identification of quantitative trait loci for osteoarthritis of hip joints in dogs. American Journal of Veterinary Research, 2008, 69, 1294-1300.	0.6	22
48	Quantitative genetics of secondary hip joint osteoarthritis in a Labrador Retriever–Greyhound pedigree. American Journal of Veterinary Research, 2007, 68, 35-41.	0.6	14
49	Linkage and Segregation Analysis of Black and Brindle Coat Color in Domestic Dogs. Genetics, 2007, 176, 1679-1689.	2.9	69
50	A random model for mapping imprinted quantitative trait loci in a structured pedigree: An implication for mapping canine hip dysplasia. Genomics, 2007, 90, 276-284.	2.9	20
51	MAGNETIC RESONANCE IMAGING OF SUBARTICULAR BONE MARROW LESIONS IN DOGS WITH STIFLE LAMENESS. Veterinary Radiology and Ultrasound, 2007, 48, 312-317.	0.9	27
52	Use of a centrifugation-based, point-of-care device for production of canine autologous bone marrow and platelet concentrates. American Journal of Veterinary Research, 2006, 67, 1655-1661.	0.6	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. Pediatric Research, 2006, 60, 549-554.	2.3	19
54	Assessment of bone mineral density of the femoral head in dogs with early osteoarthritis. American Journal of Veterinary Research, 2006, 67, 796-800.	0.6	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.	0.6	13
56	Modeling Extent and Distribution of Zygotic Disequilibrium: Implications for a Multigenerational Canine Pedigree. Genetics, 2006, 174, 439-453.	2.9	19
57	Quantitative trait loci for hip dysplasia in a crossbreed canine pedigree. Mammalian Genome, 2005, 16, 720-730.	2.2	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.	2.4	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 FTQq1 1 0.784314 rgBT /Overlock 10 Tf	0.5	0
60	A General Statistical Framework for Unifying Interval and Linkage Disequilibrium Mapping. Journal of the American Statistical Association, 2005, 100, 158-171.	3.1	20
61	Increased MIG-6 mRNA transcripts in osteoarthritic cartilage. Biochemical and Biophysical Research Communications, 2005, 332, 482-486.	2.1	15
62	The potential and limitations of cartilage-specific (V+C)â~ fibronectin and cartilage oligomeric matrix protein as osteoarthritis biomarkers in canine synovial fluid. Osteoarthritis and Cartilage, 2004, 12, 818-825.	1.3	17
63	Effect of dorsal hip loading, sedation, and general anesthesia on the dorsolateral subluxation score in dogs. Veterinary Surgery, 2003, 32, 196-205.	1.0	17
64	The extent and distribution of linkage disequilibrium in a multi-hierarchic outbred canine pedigree. Mammalian Genome, 2003, 14, 555-564.	2.2	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.	1.6	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.	0.6	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.	0.6	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.	0.5	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.	0.6	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.	0.5	47
72	Corticosteroids alter the differentiated phenotype of articular chondrocytes. Journal of Orthopaedic Research, 2001, 19, 688-695.	2.3	64

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73	Repeatability of dorsolateral subluxation scores in dogs and correlation with macroscopic appearance of hip osteoarthritis. American Journal of Veterinary Research, 2001, 62, 1711-1715.	0.6	32
74	The effects of methylprednisolone on normal and monocyte-conditioned medium-treated articular cartilage from dogs and horses. Veterinary Surgery, 2000, 29, 546-557.	1.0	28
75	Effect of Polysulfated Glycosaminoglycan on DNA Content and Proteoglycan Metabolism in Normal and Osteoarthritic Canine Articular Cartilage Explants. Veterinary Surgery, 2000, 29, 407-414.	1.0	21
76	Comparison of the trotting gaits of Labrador Retrievers and Greyhounds. American Journal of Veterinary Research, 2000, 61, 832-838.	0.6	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. Veterinary Surgery, 1998, 27, 393-405.	1.0	106
79	Acute synovitis and intra-articular methylprednisolone acetate in ponies. Osteoarthritis and Cartilage, 1998, 6, 94-105.	1.3	36
80	Slow-Acting, Disease-Modifying Osteoarthritis Agents. Veterinary Clinics of North America - Small Animal Practice, 1997, 27, 863-881.	1.5	39
81	Effect of methylprednisolone and mechanical loading on canine articular cartilage in explant culture. Osteoarthritis and Cartilage, 1996, 4, 55-62.	1.3	23
82	Chondrocyte-fibrin matrix transplants for resurfacing extensive articular cartilage defects. Journal of Orthopaedic Research, 1994, 12, 485-497.	2.3	264
83	Exposure and Postoperative Stability of Three Medial Surgical Approaches to the Canine Elbow. Veterinary Surgery, 1994, 23, 87-93.	1.0	7
84	Surgical Repair of an Esophageal Stricture in a Horse. Veterinary Surgery, 1987, 16, 251-254.	1.0	24