

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 | Mixed linear model approach adapted for genome-wide association studies. <i>Nature Genetics</i> , 2010, 42, 355-360. | 21.4 | 2,022 |
| 2 | Chondrocyteâ€fibrin matrix transplants for resurfacing extensive articular cartilage defects. <i>Journal of Orthopaedic Research</i> , 1994, 12, 485-497. | 2.3 | 264 |
| 3 | Complex disease and phenotype mapping in the domestic dog. <i>Nature Communications</i> , 2016, 7, 10460. | 12.8 | 220 |
| 4 | 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 |
| 5 | Comparison of the trotting gaits of Labrador Retrievers and Greyhounds. <i>American Journal of Veterinary Research</i> , 2000, 61, 832-838. | 0.6 | 148 |
| 6 | 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. | 7.1 | 141 |
| 7 | Dorsolateral Subluxation of Hip Joints in Dogs Measured in a Weightâ€bearing Position With Radiography and Computed Tomography. <i>Veterinary Surgery</i> , 1998, 27, 393-405. | 1.0 | 106 |
| 8 | 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 |
| 9 | Longâ€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 |
| 10 | Spontaneous dog osteoarthritis â€” a One Medicine vision. <i>Nature Reviews Rheumatology</i> , 2019, 15, 273-287. | 8.0 | 70 |
| 11 | Linkage and Segregation Analysis of Black and Brindle Coat Color in Domestic Dogs. <i>Genetics</i> , 2007, 176, 1679-1689. | 2.9 | 69 |
| 12 | Simulation Appraisal of the Adequacy of Number of Background Markers for Relationship Estimation in Association Mapping. <i>Plant Genome</i> , 2009, 2, . | 2.8 | 66 |
| 13 | Corticosteroids alter the differentiated phenotype of articular chondrocytes. <i>Journal of Orthopaedic Research</i> , 2001, 19, 688-695. | 2.3 | 64 |
| 14 | Quantitative trait loci for hip dysplasia in a crossbreed canine pedigree. <i>Mammalian Genome</i> , 2005, 16, 720-730. | 2.2 | 64 |
| 15 | Differential Genetic Regulation of Canine Hip Dysplasia and Osteoarthritis. <i>PLoS ONE</i> , 2010, 5, e13219. | 2.5 | 52 |
| 16 | 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. | 0.6 | 49 |
| 17 | Comparison of three radiographic methods for diagnosis of hip dysplasia in eight-month-old dogs. <i>Journal of the American Veterinary Medical Association</i> , 2001, 219, 1242-1246. | 0.5 | 47 |
| 18 | An outcrossed canine pedigree for linkage analysis of hip dysplasia. , 1999, 90, 83-92. | | 46 |

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|----|---|-----|-----------|
| 19 | Analysis of Allele Fidelity, Polymorphic Information Content, and Density of Microsatellites in a Genome-Wide Screening for Hip Dysplasia in a Crossbreed Pedigree. <i>Journal of Heredity</i> , 2005, 96, 847-853. | 2.4 | 45 |
| 20 | Genetic Structure of Susceptibility Traits for Hip Dysplasia and Microsatellite Informativeness of an Outcrossed Canine Pedigree. , 2003, 94, 39-48. | | 44 |
| 21 | Retrospective Analysis for Genetic Improvement of Hip Joints of Cohort Labrador Retrievers in the United States: 1970â€“2007. <i>PLoS ONE</i> , 2010, 5, e9410. | 2.5 | 42 |
| 22 | Slow-Acting, Disease-Modifying Osteoarthritis Agents. <i>Veterinary Clinics of North America - Small Animal Practice</i> , 1997, 27, 863-881. | 1.5 | 39 |
| 23 | The long (and winding) road to gene discovery for canine hip dysplasia. <i>Veterinary Journal</i> , 2009, 181, 97-110. | 1.7 | 39 |
| 24 | 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 |
| 25 | Acute synovitis and intra-articular methylprednisolone acetate in ponies. <i>Osteoarthritis and Cartilage</i> , 1998, 6, 94-105. | 1.3 | 36 |
| 26 | 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 |
| 27 | 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. | 0.6 | 32 |
| 28 | 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 |
| 29 | 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 |
| 30 | Power of a Labrador Retriever-Greyhound pedigree for linkage analysis of hip dysplasia and osteoarthritis. <i>American Journal of Veterinary Research</i> , 2003, 64, 418-424. | 0.6 | 30 |
| 31 | Quantitative genetics of traits associated with hip dysplasia in a canine pedigree constructed by mating dysplastic Labrador Retrievers with unaffected Greyhounds. <i>American Journal of Veterinary Research</i> , 2002, 63, 1029-1035. | 0.6 | 29 |
| 32 | Evaluation of multiple radiographic predictors of cartilage lesions in the hip joints of eight-month-old dogs. <i>American Journal of Veterinary Research</i> , 2003, 64, 1472-1478. | 0.6 | 29 |
| 33 | 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 |
| 34 | 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 |
| 35 | 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. | 1.0 | 28 |
| 36 | MAGNETIC RESONANCE IMAGING OF SUBARTICULAR BONE MARROW LESIONS IN DOGS WITH STIFLE LAMENESS. <i>Veterinary Radiology and Ultrasound</i> , 2007, 48, 312-317. | 0.9 | 27 |

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|----|--|-----|-----------|
| 37 | Surgical Repair of an Esophageal Stricture in a Horse. <i>Veterinary Surgery</i> , 1987, 16, 251-254. | 1.0 | 24 |
| 38 | Effect of methylprednisolone and mechanical loading on canine articular cartilage in explant culture. <i>Osteoarthritis and Cartilage</i> , 1996, 4, 55-62. | 1.3 | 23 |
| 39 | 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. | 0.6 | 23 |
| 40 | 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 |
| 41 | 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. | 0.6 | 22 |
| 42 | Identification of quantitative trait loci for osteoarthritis of hip joints in dogs. <i>American Journal of Veterinary Research</i> , 2008, 69, 1294-1300. | 0.6 | 22 |
| 43 | 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. | 1.0 | 21 |
| 44 | A General Statistical Framework for Unifying Interval and Linkage Disequilibrium Mapping. <i>Journal of the American Statistical Association</i> , 2005, 100, 158-171. | 3.1 | 20 |
| 45 | 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. | 2.9 | 20 |
| 46 | 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 |
| 47 | Usefulness, completeness, and accuracy of Web sites providing information on osteoarthritis in dogs. <i>Journal of the American Veterinary Medical Association</i> , 2003, 223, 1272-1275. | 0.5 | 19 |
| 48 | 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. | 2.3 | 19 |
| 49 | Modeling Extent and Distribution of Zygotic Disequilibrium: Implications for a Multigenerational Canine Pedigree. <i>Genetics</i> , 2006, 174, 439-453. | 2.9 | 19 |
| 50 | 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 |
| 51 | The extent and distribution of linkage disequilibrium in a multi-hierarchic outbred canine pedigree. <i>Mammalian Genome</i> , 2003, 14, 555-564. | 2.2 | 18 |
| 52 | Evaluation of Tibial Torsion in Yorkshire Terriers with and without Medial Patellar Luxation. <i>Veterinary Surgery</i> , 2012, 41, 966-972. | 1.0 | 18 |
| 53 | Effect of dorsal hip loading, sedation, and general anesthesia on the dorsolateral subluxation score in dogs. <i>Veterinary Surgery</i> , 2003, 32, 196-205. | 1.0 | 17 |
| 54 | The potential and limitations of cartilage-specific (V+C) α^2 fibronectin and cartilage oligomeric matrix protein as osteoarthritis biomarkers in canine synovial fluid. <i>Osteoarthritis and Cartilage</i> , 2004, 12, 818-825. | 1.3 | 17 |

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|----|--|-----|-----------|
| 55 | A novel iterative mixed model to remap three complex orthopedic traits in dogs. <i>PLoS ONE</i> , 2017, 12, e0176932. | 2.5 | 16 |
| 56 | Increased MIG-6 mRNA transcripts in osteoarthritic cartilage. <i>Biochemical and Biophysical Research Communications</i> , 2005, 332, 482-486. | 2.1 | 15 |
| 57 | Quantitative genetics of secondary hip joint osteoarthritis in a Labrador Retriever-Greyhound pedigree. <i>American Journal of Veterinary Research</i> , 2007, 68, 35-41. | 0.6 | 14 |
| 58 | Evaluation of quantitative trait loci for hip dysplasia in Labrador Retrievers. <i>American Journal of Veterinary Research</i> , 2009, 70, 1094-1101. | 0.6 | 14 |
| 59 | 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 |
| 60 | Thoracolumbar Spinal Cord Compression Due to Vertebral Process Degenerative Joint Disease in a Family of Shiloh Shepherd Dogs. <i>Journal of Veterinary Internal Medicine</i> , 2003, 17, 530-537. | 1.6 | 13 |
| 61 | In vitro analysis of nonthermal plasma as a disinfecting agent. <i>American Journal of Veterinary Research</i> , 2006, 67, 2030-2035. | 0.6 | 13 |
| 62 | 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. | 0.6 | 13 |
| 63 | Effect of Ulnar Ostectomy 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 |
| 64 | 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 |
| 65 | 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 |
| 66 | 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. | 0.5 | 11 |
| 67 | Demographics of hip dysplasia in the Maine Coon cat. <i>Journal of Feline Medicine and Surgery</i> , 2018, 20, 302-307. | 1.6 | 11 |
| 68 | 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 |
| 69 | 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 |
| 70 | 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 |
| 71 | 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 |
| 72 | Joint Genomic Prediction of Canine Hip Dysplasia in UK and US Labrador Retrievers. <i>Frontiers in Genetics</i> , 2018, 9, 101. | 2.3 | 8 |

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|----|--|-----|-----------|
| 73 | Exposure and Postoperative Stability of Three Medial Surgical Approaches to the Canine Elbow. <i>Veterinary Surgery</i> , 1994, 23, 87-93. | 1.0 | 7 |
| 74 | 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 |
| 75 | 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 |
| 76 | Genetic mapping of principal components of canine pelvic morphology. <i>Canine Genetics and Epidemiology</i> , 2017, 4, 4. | 2.8 | 7 |
| 77 | Synovial fluid lubricin increases in spontaneous canine cruciate ligament rupture. <i>Scientific Reports</i> , 2020, 10, 16725. | 3.3 | 6 |
| 78 | 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 |
| 79 | 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 |
| 80 | 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 |
| 81 | The α -Measurement in the Diagnosis of Canine Hip Dysplasia. <i>Veterinary Surgery</i> , 2012, 41, 78-85. | 1.0 | 2 |
| 82 | 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 |
| 83 | 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 |
| 84 | Introduction to <i>Veterinary Genetics</i> (2nd edition) <i>Handbook of Behavior Problems of the Dog and Cat</i> (2nd edition) <i>BSAVA Manual of Canine and Feline Neurology</i> (3rd edition) <i>Essential Facts of Physiotherapy in Dogs and Cats: Rehabilitation and Pain Management</i> <i>Minnesota Veterinary Images 2004</i> <i>Color Atlas of Diseases and Disorders of Cattle</i> (2nd edition);Introduction to <i>Veterinary Genetics</i> (2nd edition); <i>Handbook of Behavior Problems of the Dog and Cat</i> (2nd | 0.5 | 0 |