# Danika L Bannasch

List of Publications by Year
in descending order



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|---|---|---|---|
| 98 papers | 4,751 citations | 136740 32 h-index | 106150 65 g-index |
| 105 all docs | 105 docs citations | 105 times ranked | 5092 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Genome-wide SNP and haplotype analyses reveal a rich history underlying dog domestication. Nature, 2010, 464, 898-902. | 13.7 | 635 |
| 2 | Identification of Genomic Regions Associated with Phenotypic Variation between Dog Breeds using Selection Mapping. PLoS Genetics, 2011, 7, e1002316. | 1.5 | 339 |
| 3 | Genome-Wide Analysis Reveals Selection for Important Traits in Domestic Horse Breeds. PLoS Genetics, 2013, 9, e1003211. | 1.5 | 240 |
| 4 | Genetic Diversity in the Modern Horse Illustrated from Genome-Wide SNP Data. PLoS ONE, 2013, 8, e54997. | 1.1 | 214 |
| 5 | A High Density SNP Array for the Domestic Horse and Extant Perissodactyla: Utility for Association Mapping, Genetic Diversity, and Phylogeny Studies. PLoS Genetics, 2012, 8, e1002451. | 1.5 | 208 |
| 6 | Melanocortin 1 receptor variation in the domestic dog. Mammalian Genome, 2000, 11, 24-30. | 1.0 | 194 |
| 7 | A comprehensive biomedical variant catalogue based on whole genome sequences of 582 dogs and eight wolves. Animal Genetics, 2019, 50, 695-704. | 0.6 | 138 |
| 8 | Prevalence of inherited disorders among mixed-breed and purebred dogs: 27,254 cases (1995â€“2010). Journal of the American Veterinary Medical Association, 2013, 242, 1549-1555. | 0.2 | 119 |
| 9 | Developing a 670k genotyping array to tag ~2M SNPs across 24 horse breeds. BMC Genomics, 2017, 18, 565. | 1.2 | 116 |
| 10 | Localization of Canine Brachycephaly Using an Across Breed Mapping Approach. PLoS ONE, 2010, 5, e9632. | 1.1 | 101 |
| 11 | Evaluation of allele frequencies of inherited disease genes in subgroups of American Quarter Horses. Journal of the American Veterinary Medical Association, 2009, 234, 120-125. | 0.2 | 100 |
| 12 | Homozygosity mapping approach identifies a missense mutation in equine cyclophilin B (PPIB) associated with HERDA in the American Quarter Horse. Genomics, 2007, 90, 93-102. | 1.3 | 99 |
| 13 | Genome-wide association mapping identifies multiple loci for a canine SLE-related disease complex. Nature Genetics, 2010, 42, 250-254. | 9.4 | 99 |
| 14 | Mutations in the SLC2A9 Gene Cause Hyperuricosuria and Hyperuricemia in the Dog. PLoS Genetics, 2008, 4, e1000246. | 1.5 | 94 |
| 15 | Early Developmental and Evolutionary Origins of Gene Body DNA Methylation Patterns in Mammalian Placentas. PLoS Genetics, 2015, 11, e1005442. | 1.5 | 93 |
| 16 | FGF4 retrogene on CFA12 is responsible for chondrodystrophy and intervertebral disc disease in dogs. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11476-11481. | 3.3 | 92 |
| 17 | Genome-Wide Association Studies in Dogs and Humans Identify ADAMTS20 as a Risk Variant for Cleft Lip and Palate. PLoS Genetics, 2015, 11, e1005059. | 1.5 | 82 |
| 18 | Quantitative Translation of Dog-to-Human Aging by Conserved Remodeling of the DNA Methylome. Cell Systems, 2020, 11, 176-185.e6. | 2.9 | 67 |

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|---|---|---|---|
| 19 | Coyotes Demonstrate How Habitat Specialization by Individuals of a Generalist Species Can Diversify Populations in a Heterogeneous Ecoregion. Molecular Biology and Evolution, 2008, 25, 1384-1394. | 3.5 | 65 |
| 20 | Whole genome variant association across 100 dogs identifies a frame shift mutation in DISHEVELLED 2 which contributes to Robinow-like syndrome in Bulldogs and related screw tail dog breeds. PLoS Genetics, 2018, 14, e1007850. | 1.5 | 61 |
| 21 | Hereditary equine regional dermal asthenia ('hyperelastosis cutis') in 50 horses: clinical, histological, immunohistological and ultrastructural findings. Veterinary Dermatology, 2004, 15, 207-217. | 0.4 | 56 |
| 22 | Y chromosome haplotype analysis in purebred dogs. Mammalian Genome, 2005, 16, 273-280. | 1.0 | 55 |
| 23 | Utilizing the Dog Genome in the Search for Novel Candidate Genes Involved in Glioma Developmentâ€”Genome Wide Association Mapping followed by Targeted Massive Parallel Sequencing Identifies a Strongly Associated Locus. PLoS Genetics, 2016, 12, e1006000. | 1.5 | 54 |
| 24 | Phylogenetic Distinctiveness of Middle Eastern and Southeast Asian Village Dog Y Chromosomes Illuminates Dog Origins. PLoS ONE, 2011, 6, e28496. | 1.1 | 50 |
| 25 | A LINE-1 Insertion in DLX6 Is Responsible for Cleft Palate and Mandibular Abnormalities in a Canine Model of Pierre Robin Sequence. PLoS Genetics, 2014, 10, e1004257. | 1.5 | 49 |
| 26 | Activity, Expression and Genetic Variation of Canine Î²-Defensin 103: A Multifunctional Antimicrobial Peptide in the Skin of Domestic Dogs. Journal of Innate Immunity, 2012, 4, 248-259. | 1.8 | 45 |
| 27 | Gonadectomy effects on the risk of immune disorders in the dog: a retrospective study. BMC Veterinary Research, 2016, 12, 278. | 0.7 | 45 |
| 28 | Association of cancer-related mortality, age and gonadectomy in golden retriever dogs at a veterinary academic center (1989-2016). PLoS ONE, 2018, 13, e0192578. | 1.1 | 45 |
| 29 | Clinical features and heritability of hypoadrenocorticism in Nova Scotia Duck Tolling Retrievers: 25 cases (1994â€“2006). Journal of the American Veterinary Medical Association, 2007, 231, 407-412. | 0.2 | 41 |
| 30 | Genome-Wide Association Analysis Identifies a Mutation in the Thiamine Transporter 2 (SLC19A3) Gene Associated with Alaskan Husky Encephalopathy. PLoS ONE, 2013, 8, e57195. | 1.1 | 40 |
| 31 | Genome-Wide Association Mapping in Dogs Enables Identification of the Homeobox Gene, NKX2-8, as a Genetic Component of Neural Tube Defects in Humans. PLoS Genetics, 2013, 9, e1003646. | 1.5 | 39 |
| 32 | Association of a dog leukocyte antigen class II haplotype with hypoadrenocorticism in Nova Scotia Duck Tolling Retrievers. Tissue Antigens, 2010, 75, 684-690. | 1.0 | 37 |
| 33 | Single Nucleotide Polymorphism (SNP) Variation of Wolves (Canis lupus) in Southeast Alaska and Comparison with Wolves, Dogs, and Coyotes in North America. Journal of Heredity, 2015, 106, 26-36. | 1.0 | 35 |
| 34 | Equine Degenerative Myeloencephalopathy in Lusitano Horses. Journal of Veterinary Internal Medicine, 2011, 25, 1439-1446. | 0.6 | 34 |
| 35 | Inheritance of hereditary equine regional dermal asthenia in Quarter Horses. American Journal of Veterinary Research, 2005, 66, 437-442. | 0.3 | 33 |
| 36 | Transcriptome profiling of equine vitamin E deficient neuroaxonal dystrophy identifies upregulation of liver X receptor target genes. Free Radical Biology and Medicine, 2016, 101, 261-271. | 1.3 | 33 |

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|---|---|---|---|
| 37 | Phenotypic Effects of FGF4 Retrogenes on Intervertebral Disc Disease in Dogs. Genes, 2019, 10, 435. | 1.0 | 33 |
| 38 | Pedigree Analysis and Exclusion of Alphaâ€Tocopherol Transfer Protein (<scp>TTPA</scp>) as a Candidate Gene for Neuroaxonal Dystrophy in the American Quarter Horse. Journal of Veterinary Internal Medicine, 2013, 27, 177-185. | 0.6 | 32 |
| 39 | Chromosomal Aberrations in Canine Gliomas Define Candidate Genes and Common Pathways in Dogs and Humans. Journal of Neuropathology and Experimental Neurology, 2016, 75, 700-710. | 0.9 | 31 |
| 40 | Clinical manifestations, response to treatment, and clinical outcome for Weimaraners with hypertrophic osteodystrophy: 53 cases (2009â€“2011). Journal of the American Veterinary Medical Association, 2013, 242, 1260-1266. | 0.2 | 30 |
| 41 | Correlation of neuter status and expression of heritable disorders. Canine Genetics and Epidemiology, 2017, 4, 6. | 2.9 | 29 |
| 42 | Clinical and pathological findings in a HERDA-affected foal for 1.5Âyears of life. Veterinary Dermatology, 2007, 18, 36-40. | 0.4 | 28 |
| 43 | Current Understanding of the Genetics of Intervertebral Disc Degeneration. Frontiers in Veterinary Science, 2020, 7, 431. | 0.9 | 28 |
| 44 | Risk of false positive genetic associations in complex traits with underlying population structure: A case study. Veterinary Journal, 2014, 202, 543-549. | 0.6 | 27 |
| 45 | Applied equine genetics. Equine Veterinary Journal, 2014, 46, 538-544. | 0.9 | 27 |
| 46 | Thiamine Deficiencyâ€Mediated Brain Mitochondrial Pathology in <scp>A</scp>laskan <scp>H</scp>uskies with Mutation in <scp>SLC19A3.1</scp>. Brain Pathology, 2015, 25, 441-453. | 2.1 | 27 |
| 47 | Pigment Intensity in Dogs is Associated with a Copy Number Variant Upstream of KITLG. Genes, 2020, 11, 75. | 1.0 | 27 |
| 48 | Blood and Cerebrospinal Fluid Î±â€Tocopherol and Selenium Concentrations in Neonatal Foals with Neuroaxonal Dystrophy. Journal of Veterinary Internal Medicine, 2015, 29, 1667-1675. | 0.6 | 26 |
| 49 | The effect of inbreeding, body size and morphology on health in dog breeds. Canine Medicine and Genetics, 2021, 8, 12. | 1.4 | 26 |
| 50 | Variants at the ASIP locus contribute to coat color darkening in Nellore cattle. Genetics Selection Evolution, 2021, 53, 40. | 1.2 | 25 |
| 51 | Dog colour patterns explained by modular promoters of ancient canid origin. Nature Ecology and Evolution, 2021, 5, 1415-1423. | 3.4 | 24 |
| 52 | Validation of a urine test and characterization of the putative genetic mutation for hyperuricosuria in Bulldogs and Black Russian Terriers. American Journal of Veterinary Research, 2010, 71, 909-914. | 0.3 | 21 |
| 53 | SERPINB11 Frameshift Variant Associated with Novel Hoof Specific Phenotype in Connemara Ponies. PLoS Genetics, 2015, 11, e1005122. | 1.5 | 21 |
| 54 | NME5 frameshift variant in Alaskan Malamutes with primary ciliary dyskinesia. PLoS Genetics, 2019, 15, e1008378. | 1.5 | 21 |

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|---|---|---|---|
| 55 | Exclusion of Urate Oxidase as a Candidate Gene for Hyperuricosuria in the Dalmatian Dog Using an Interbreed Backcross. Journal of Heredity, 2005, 96, 750-754. | 1.0 | 19 |
| 56 | Evaluation of FOXC2 as a candidate gene for chronic progressive lymphedema in draft horses. Veterinary Journal, 2007, 174, 397-399. | 0.6 | 19 |
| 57 | A Missense Mutation in the Vacuolar Protein Sorting 11 (VPS11) Gene Is Associated with Neuroaxonal Dystrophy in Rottweiler Dogs. G3: Genes, Genomes, Genetics, 2018, 8, 2773-2780. | 0.8 | 19 |
| 58 | Changing Paradigms in Diagnosis of Inherited Defects Associated with Urolithiasis. Veterinary Clinics of North America - Small Animal Practice, 2009, 39, 111-125. | 0.5 | 18 |
| 59 | Estimated Frequency of the Canine Hyperuricosuria Mutation in Different Dog Breeds. Journal of Veterinary Internal Medicine, 2010, 24, 1337-1342. | 0.6 | 18 |
| 60 | Examination of candidate genes for hypoadrenocorticism in Nova Scotia Duck Tolling Retrievers. Veterinary Journal, 2011, 187, 212-216. | 0.6 | 17 |
| 61 | Inheritance of cricopharyngeal dysfunction in Golden Retrievers. American Journal of Veterinary Research, 2004, 65, 344-349. | 0.3 | 16 |
| 62 | Linkage analysis with an interbreed backcross maps Dalmatian hyperuricosuria to CFA03. Mammalian Genome, 2006, 17, 340-345. | 1.0 | 16 |
| 63 | Wolf Subspecies: Reply to Weckworth et al. and Fredrickson et al.: Table 1.. Journal of Heredity, 2015, 106, 417-419. | 1.0 | 16 |
| 64 | Serum levels of innate immunity cytokines are elevated in dogs with metaphyseal osteopathy (hypertrophic osteodytrophy) during active disease and remission. Veterinary Immunology and Immunopathology, 2016, 179, 32-35. | 0.5 | 16 |
| 65 | Association of early onset myasthenia gravis in Newfoundland dogs with the canine major histocompatibility complex class I. Neuromuscular Disorders, 2017, 27, 409-416. | 0.3 | 15 |
| 66 | Genetic Variants Affecting Skeletal Morphology in Domestic Dogs. Trends in Genetics, 2020, 36, 598-609. | 2.9 | 15 |
| 67 | Electrophysiological studies in American Quarter horses with neuroaxonal dystrophy. Veterinary Ophthalmology, 2012, 15, 3-7. | 0.6 | 13 |
| 68 | Identification of a Candidate Mutation in the COL1A2 Gene of a Chow Chow With Osteogenesis Imperfecta. Journal of Heredity, 2018, 109, 308-314. | 1.0 | 13 |
| 69 | Pathologic Features of the Intervertebral Disc in Young Nova Scotia Duck Tolling Retrievers Confirms Chondrodystrophy Degenerative Phenotype Associated With Genotype. Veterinary Pathology, 2019, 56, 895-902. | 0.8 | 13 |
| 70 | A Missense Variant Affecting the C-Terminal Tail of UNC93B1 in Dogs with Exfoliative Cutaneous Lupus Erythematosus (ECLE). Genes, 2020, 11, 159. | 1.0 | 13 |
| 71 | Inheritance of urinary calculi in the Dalmatian. Journal of Veterinary Internal Medicine, 2004, 18, 483-7. | 0.6 | 13 |
| 72 | Multiple FGF4 Retrocopies Recently Derived within Canids. Genes, 2020, 11, 839. | 1.0 | 12 |

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|---|---|---|---|
| 73 | A mutation in the canine gene encoding folliculinâ€interacting protein 2 (FNIP2) associated with a unique disruption in spinal cord myelination. Glia, 2014, 62, 39-51. | 2.5 | 10 |
| 74 | Evaluation of Canine COL4A3 and COL4A4 as Candidates for Familial Renal Disease in the Norwegian Elkhound. Journal of Heredity, 2005, 96, 739-744. | 1.0 | 9 |
| 75 | Evaluation of the major histocompatibility complex (MHC) class II as a candidate for sudden acquired retinal degeneration syndrome (SARDS) in Dachshunds. Veterinary Ophthalmology, 2019, 22, 751-759. | 0.6 | 9 |
| 76 | Canine DVL2 variant contributes to brachycephalic phenotype and caudal vertebral anomalies. Human Genetics, 2021, 140, 1535-1545. | 1.8 | 9 |
| 77 | SNPSin the Promoter Regions of the Canine RMRP and SHOX Genes are not Associated with Canine Chondrodysplasia. Animal Biotechnology, 2008, 19, 1-5. | 0.7 | 8 |
| 78 | Exclusion ofgalectin 9as a candidate gene for hyperuricosuria in the Dalmatian dog. Animal Genetics, 2004, 35, 326-328. | 0.6 | 7 |
| 79 | Genetic analysis of optic nerve head coloboma in the Nova Scotia Duck Tolling Retriever identifies discordance with the <scp>NHEJ</scp>1 intronic deletion (collie eye anomaly mutation). Veterinary Ophthalmology, 2018, 21, 144-150. | 0.6 | 7 |
| 80 | Whole genome sequencing for mutation discovery in a single case of lysosomal storage disease (MPS) Tj ETQq0 0 0 rgBT /Overlock 10 T | 1.6 | 7 |
| 81 | The Effects of FGF4 Retrogenes on Canine Morphology. Genes, 2022, 13, 325. | 1.0 | 7 |
| 82 | Deletions in the COL10A1 gene are not associated with skeletal changes in dogs. Mammalian Genome, 2006, 17, 761-768. | 1.0 | 6 |
| 83 | Genetic Testing and the Future of Equine Genomics. Journal of Equine Veterinary Science, 2008, 28, 645-649. | 0.4 | 6 |
| 84 | Novel Brown Coat Color (Cocoa) in French Bulldogs Results from a Nonsense Variant in HPS3. Genes, 2020, 11, 636. | 1.0 | 6 |
| 85 | Canine fibroblast growth factor receptor 3 sequence is conserved across dogs of divergent skeletal size. BMC Genetics, 2008, 9, 67. | 2.7 | 5 |
| 86 | ATP2A2 SINE Insertion in an Irish Terrier with Darier Disease and Associated Infundibular Cyst Formation. Genes, 2020, 11, 481. | 1.0 | 5 |
| 87 | Improving the resolution of canine genomeâ€wide association studies using genotype imputation: A study of two breeds. Animal Genetics, 2021, 52, 703-713. | 0.6 | 5 |
| 88 | Comparative Cytogenetic Analysis of Dog and Human Choroid Plexus Tumors Defines Syntenic Regions of Genomic Loss. Journal of Neuropathology and Experimental Neurology, 2018, 77, 413-419. | 0.9 | 4 |
| 89 | CanineCOL4A3andCOL4A4: Sequencing, mapping and genomic organization. DNA Sequence, 2005, 16, 241-251. | 0.7 | 3 |
| 90 | Recent Advances in Small Animal Genetics. Veterinary Clinics of North America - Small Animal Practice, 2006, 36, 461-474. | 0.5 | 3 |

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|---|---|---|---|
| 91 | A Missense Variant in ALDH5A1 Associated with Canine Succinic Semialdehyde Dehydrogenase Deficiency (SSADHD) in the Saluki Dog. Genes, 2020, 11, 1033. | 1.0 | 3 |
| 92 | DNA Sequence Variants in the Five Prime Untranslated Region of the Cyclooxygenase-2 Gene Are Commonly Found in Healthy Dogs and Gray Wolves. PLoS ONE, 2015, 10, e0133127. | 1.1 | 2 |
| 93 | Quality of DNA extracted from formalin-fixed, paraffin-embedded canine tissues. Journal of Veterinary Diagnostic Investigation, 2020, 32, 556-559. | 0.5 | 2 |
| 94 | SLC25A12 Missense Variant in Nova Scotia Duck Tolling Retrievers Affected by Cerebellar Degenerationâ€"Myositis Complex (CDMC). Genes, 2022, 13, 1223. | 1.0 | 2 |
| 95 | Urate urolithiasis and hyperuricosuria in a Weimaraner, secondary to the SLC2A9 transporter defect. Veterinary Record Case Reports, 2014, 2, e000016. | 0.1 | 1 |
| 96 | Canine reference genome accuracy impacts variant calling: Lessons learned from investigating embryonic lethal variants. Animal Genetics, 2022, 53, 706-708. | 0.6 | 1 |
| 97 | Special Issue â€œMolecular Basis of Inherited Diseases in Companion Animalsâ€. Genes, 2021, 12, 68. | 1.0 | 0 |
| 98 | Genetic Tests for Large Animals. , 2020, , 1709-1716.e5. | | 0 |