Derek M Bickhart

List of Publications by Year in descending order

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DEDEK M RICKHADT

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Single-molecule sequencing and chromatin conformation capture enable de novo reference assembly of the domestic goat genome. Nature Genetics, 2017, 49, 643-650. | 21.4 | 600 |
| 2 | metaFlye: scalable long-read metagenome assembly using repeat graphs. Nature Methods, 2020, 17, 1103-1110. | 19.0 | 430 |
| 3 | De novo assembly of the cattle reference genome with single-molecule sequencing. GigaScience, 2020, 9, . | 6.4 | 380 |
| 4 | Genome characteristics of facultatively symbiotic Frankia sp. strains reflect host range and host plant biogeography. Genome Research, 2006, 17, 7-15. | 5.5 | 352 |
| 5 | De novo assembly of haplotype-resolved genomes with trio binning. Nature Biotechnology, 2018, 36, 1174-1182. | 17.5 | 352 |
| 6 | Copy number variation of individual cattle genomes using next-generation sequencing. Genome Research, 2012, 22, 778-790. | 5.5 | 259 |
| 7 | On the chimeric nature, thermophilic origin, and phylogenetic placement of the Thermotogales. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 5865-5870. | 7.1 | 221 |
| 8 | Genomic characteristics of cattle copy number variations. BMC Genomics, 2011, 12, 127. | 2.8 | 201 |
| 9 | Scaffolding of long read assemblies using long range contact information. BMC Genomics, 2017, 18, 527. | 2.8 | 194 |
| 10 | An improved pig reference genome sequence to enable pig genetics and genomics research. GigaScience, 2020, 9, . | 6.4 | 187 |
| 11 | Genomic Signatures Reveal New Evidences for Selection of Important Traits in Domestic Cattle. Molecular Biology and Evolution, 2015, 32, 711-725. | 8.9 | 173 |
| 12 | Cattle Sex-Specific Recombination and Genetic Control from a Large Pedigree Analysis. PLoS Genetics, 2015, 11, e1005387. | 3.5 | 168 |
| 13 | Chromosome-level assembly of the water buffalo genome surpasses human and goat genomes in sequence contiguity. Nature Communications, 2019, 10, 260. | 12.8 | 161 |
| 14 | Genomic divergence of zebu and taurine cattle identified through high-density SNP genotyping. BMC Genomics, 2013, 14, 876. | 2.8 | 142 |
| 15 | Genome to Phenome: Improving Animal Health, Production, and Well-Being – A New USDA Blueprint for Animal Genome Research 2018–2027. Frontiers in Genetics, 2019, 10, 327. | 2.3 | 118 |
| 16 | Selecting sequence variants to improve genomic predictions for dairy cattle. Genetics Selection Evolution, 2017, 49, 32. | 3.0 | 113 |
| 17 | The challenges and importance of structural variation detection in livestock. Frontiers in Genetics, 2014, 5, 37. | 2.3 | 104 |
| 18 | Generating lineage-resolved, complete metagenome-assembled genomes from complex microbial communities. Nature Biotechnology, 2022, 40, 711-719. | 17.5 | 99 |

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|----|--|------|-----------|
| 19 | Population-genetic properties of differentiated copy number variations in cattle. Scientific Reports, 2016, 6, 23161. | 3.3 | 91 |
| 20 | Fine mapping of copy number variations on two cattle genome assemblies using high density SNP array. BMC Genomics, 2012, 13, 376. | 2.8 | 90 |
| 21 | Genome wide CNV analysis reveals additional variants associated with milk production traits in Holsteins. BMC Genomics, 2014, 15, 683. | 2.8 | 89 |
| 22 | Identification of a Nonsense Mutation in CWC15 Associated with Decreased Reproductive Efficiency in Jersey Cattle. PLoS ONE, 2013, 8, e54872. | 2.5 | 88 |
| 23 | Genomic regions showing copy number variations associate with resistance or susceptibility to gastrointestinal nematodes in Angus cattle. Functional and Integrative Genomics, 2012, 12, 81-92. | 3.5 | 87 |
| 24 | Haplotype-resolved genomes provide insights into structural variation and gene content in Angus and Brahman cattle. Nature Communications, 2020, 11, 2071. | 12.8 | 84 |
| 25 | Assessing signatures of selection through variation in linkage disequilibrium between taurine and indicine cattle. Genetics Selection Evolution, 2014, 46, 19. | 3.0 | 79 |
| 26 | Bovine Exome Sequence Analysis and Targeted SNP Genotyping of Recessive Fertility Defects BH1, HH2, and HH3 Reveal a Putative Causative Mutation in SMC2 for HH3. PLoS ONE, 2014, 9, e92769. | 2.5 | 69 |
| 27 | Genome-wide CNV analysis reveals variants associated with growth traits in Bos indicus. BMC Genomics, 2016, 17, 419. | 2.8 | 69 |
| 28 | Assignment of virus and antimicrobial resistance genes to microbial hosts in a complex microbial community by combined long-read assembly and proximity ligation. Genome Biology, 2019, 20, 153. | 8.8 | 66 |
| 29 | Copy number variation in the cattle genome. Functional and Integrative Genomics, 2012, 12, 609-624. | 3.5 | 60 |
| 30 | Comparative whole genome DNA methylation profiling of cattle sperm and somatic tissues reveals striking hypomethylated patterns in sperm. GigaScience, 2018, 7, . | 6.4 | 60 |
| 31 | Diversity and population-genetic properties of copy number variations and multicopy genes in cattle. DNA Research, 2016, 23, 253-262. | 3.4 | 59 |
| 32 | Analysis of copy number variations in Holstein cows identify potential mechanisms contributing to differences in residual feed intake. Functional and Integrative Genomics, 2012, 12, 717-723. | 3.5 | 51 |
| 33 | Continuous chromosome-scale haplotypes assembled from a single interspecies F1 hybrid of yak and cattle. GigaScience, 2020, 9, . | 6.4 | 46 |
| 34 | Convergent Evolution of Slick Coat in Cattle through Truncation Mutations in the Prolactin Receptor. Frontiers in Genetics, 2018, 9, 57. | 2.3 | 45 |
| 35 | Comparative analyses across cattle genders and breeds reveal the pitfalls caused by false positive and lineage-differential copy number variations. Scientific Reports, 2016, 6, 29219. | 3.3 | 44 |
| 36 | A PLAG1 mutation contributed to stature recovery in modern cattle. Scientific Reports, 2017, 7, 17140. | 3.3 | 42 |

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|----|--|------|-----------|
| 37 | Revealing misassembled segments in the bovine reference genome by high resolution linkage disequilibrium scan. BMC Genomics, 2016, 17, 705. | 2.8 | 41 |
| 38 | The evolution of the natural killer complex; a comparison between mammals using new high-quality genome assemblies and targeted annotation. Immunogenetics, 2017, 69, 255-269. | 2.4 | 40 |
| 39 | Comparative Analysis of CNV Calling Algorithms: Literature Survey and a Case Study Using Bovine High-Density SNP Data. Microarrays (Basel, Switzerland), 2013, 2, 171-185. | 1.4 | 37 |
| 40 | The Biology of <i>Frankia</i> sp. Strains in the Post-Genome Era. Molecular Plant-Microbe Interactions, 2011, 24, 1310-1316. | 2.6 | 36 |
| 41 | The antibody loci of the domestic goat (Capra hircus). Immunogenetics, 2018, 70, 317-326. | 2.4 | 35 |
| 42 | Insertion sequence content reflects genome plasticity in strains of the root nodule actinobacterium Frankia. BMC Genomics, 2009, 10, 468. | 2.8 | 34 |
| 43 | Misidentification of runs of homozygosity islands in cattle caused by interference with copy number variation or large intermarker distances. Genetics Selection Evolution, 2018, 50, 43. | 3.0 | 32 |
| 44 | Reduced representation bisulphite sequencing of ten bovine somatic tissues reveals DNA methylation patterns and their impacts on gene expression. BMC Genomics, 2016, 17, 779. | 2.8 | 30 |
| 45 | Transcriptomes of Frankia sp. strain Ccl3 in growth transitions. BMC Microbiology, 2011, 11, 192. | 3.3 | 26 |
| 46 | Comparative analyses of sperm DNA methylomes among human, mouse and cattle provide insights into epigenomic evolution and complex traits. Epigenetics, 2019, 14, 260-276. | 2.7 | 25 |
| 47 | A Reference Genome Assembly of Simmental Cattle, <i>Bos taurus taurus</i> . Journal of Heredity, 2021, 112, 184-191. | 2.4 | 25 |
| 48 | Variants at the ASIP locus contribute to coat color darkening in Nellore cattle. Genetics Selection Evolution, 2021, 53, 40. | 3.0 | 25 |
| 49 | A genome-wide survey reveals a deletion polymorphism associated with resistance to gastrointestinal nematodes in Angus cattle. Functional and Integrative Genomics, 2014, 14, 333-339. | 3.5 | 24 |
| 50 | An improved ovine reference genome assembly to facilitate in-depth functional annotation of the sheep genome. GigaScience, 2022, 11, . | 6.4 | 24 |
| 51 | New insights into mammalian sex chromosome structure and evolution using high-quality sequences from bovine X and Y chromosomes. BMC Genomics, 2019, 20, 1000. | 2.8 | 21 |
| 52 | Systematic profiling of short tandem repeats in the cattle genome. Genome Biology and Evolution, 2016, 9, evw256. | 2.5 | 20 |
| 53 | Annotated Draft Genome Assemblies for the Northern Bobwhite (<i>Colinus virginianus</i>) and the Scaled Quail (<i>Callipepla squamata</i>) Reveal Disparate Estimates of Modern Genome Diversity and Historic Effective Population Size. G3: Genes, Genomes, Genetics, 2017, 7, 3047-3058. | 1.8 | 20 |
| 54 | Structural variant-based pangenome construction has low sensitivity to variability of haplotype-resolved bovine assemblies. Nature Communications, 2022, 13, . | 12.8 | 19 |

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|----|--|-----|-----------|
| 55 | Fine Mapping for Weaver Syndrome in Brown Swiss Cattle and the Identification of 41 Concordant Mutations across NRCAM, PNPLA8 and CTTNBP2. PLoS ONE, 2013, 8, e59251. | 2.5 | 18 |
| 56 | RAPTR-SV: a hybrid method for the detection of structural variants. Bioinformatics, 2015, 31, 2084-2090. | 4.1 | 18 |
| 57 | Genomic predictions combining SNP markers and copy number variations in Nellore cattle. BMC Genomics, 2018, 19, 441. | 2.8 | 18 |
| 58 | The Structure, Evolution, and Gene Expression Within the Caprine Leukocyte Receptor Complex. Frontiers in Immunology, 2019, 10, 2302. | 4.8 | 17 |
| 59 | Transcriptomics analysis of host liver and meta-transcriptome analysis of rumen epimural microbial community in young calves treated with artificial dosing of rumen content from adult donor cow. Scientific Reports, 2019, 9, 790. | 3.3 | 16 |
| 60 | A Reference Genome Assembly of American Bison, <i>Bison bison bison</i> . Journal of Heredity, 2021, 112, 174-183. | 2.4 | 14 |
| 61 | Integrating Signals from Sperm Methylome Analysis and Genome-Wide Association Study for a Better Understanding of Male Fertility in Cattle. Epigenomes, 2019, 3, 10. | 1.8 | 12 |
| 62 | Identification of Candidate Transcription Factor Binding Sites in the Cattle Genome. Genomics, Proteomics and Bioinformatics, 2013, 11, 195-198. | 6.9 | 11 |
| 63 | Genomic structural differences between cattle and River Buffalo identified through comparative genomic and transcriptomic analysis. Data in Brief, 2018, 19, 236-239. | 1.0 | 10 |
| 64 | Characterization of the domestic goat $\hat{I}^3\hat{I}$ T cell receptor gene loci and gene usage. Immunogenetics, 2021, 73, 187-201. | 2.4 | 10 |
| 65 | Effect of consuming endophyte-infected fescue seed on transcript abundance in the mammary gland of lactating and dry cows, as assessed by RNA sequencing. Journal of Dairy Science, 2018, 101, 10478-10494. | 3.4 | 8 |
| 66 | Comparative sequence alignment reveals River Buffalo genomic structural differences compared with cattle. Genomics, 2019, 111, 418-425. | 2.9 | 8 |
| 67 | Validating the Use of Bovine Buccal Sampling as a Proxy for the Rumen Microbiota by Using a Time Course and Random Forest Classification Approach. Applied and Environmental Microbiology, 2020, 86, . | 3.1 | 8 |
| 68 | Butyrate Induced IGF2 Activation Correlated with Distinct Chromatin Signatures Due to Histone Modification. Gene Regulation and Systems Biology, 2013, 7, GRSB.S11243. | 2.3 | 7 |
| 69 | Computational detection and experimental validation of segmental duplications and associated copy number variations in water buffalo (Bubalus bubalis). Functional and Integrative Genomics, 2019, 19, 409-419. | 3.5 | 7 |
| 70 | Chromosome-scale assembly of the highly heterozygous genome of red clover (Trifolium pratense L.), anÂallogamous forage crop species. GigaByte, 0, 2022, 1-13. | 0.0 | 6 |
| 71 | Defining the caprine γδT cell WC1 multigenic array and evaluation of its expressed sequences and gene structure conservation among goat breeds and relative to cattle. Immunogenetics, 2022, 74, 347-365. | 2.4 | 4 |
| 72 | Examination of the xanthosine response on gene expression of mammary epithelial cells using RNA-seq technology. Journal of Animal Science and Technology, 2018, 60, 18. | 2.5 | 3 |

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| 73 | Gaur genome reveals expansion of sperm odorant receptors in domesticated cattle. BMC Genomics, 2022, 23, 344. | 2.8 | 3 |
| 74 | Genome-wide association study between copy number variation regions and carcass- and meat-quality traits in Nellore cattle. Animal Production Science, 2021, 61, 731. | 1.3 | 2 |
| 75 | Development of polymorphic markers in the immune gene complex loci of cattle. Journal of Dairy Science, 2021, 104, 6897-6908. | 3.4 | 2 |
| 76 | Statistical Detection of Genome Differences Based on CNV Segments. Methods in Molecular Biology, 2018, 1833, 49-59. | 0.9 | 1 |
| 77 | Analysis of Population-Genetic Properties of Copy Number Variations. Methods in Molecular Biology, 2018, 1833, 179-186. | 0.9 | 1 |
| 78 | Use of RAPTR-SV to Identify SVs from Read Pairing and Split Read Signatures. Methods in Molecular Biology, 2018, 1833, 143-153. | 0.9 | 1 |