## Robert D Schnabel

List of Publications by Year in descending order

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		38742	27406
122	12,157	50	106
papers	citations	h-index	g-index
134	134	134	9478
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	The Genome Sequence of Taurine Cattle: A Window to Ruminant Biology and Evolution. Science, 2009, 324, 522-528.	12.6	1,038
2	Invited Review: Reliability of genomic predictions for North American Holstein bulls. Journal of Dairy Science, 2009, 92, 16-24.	3.4	1,008
3	Development and Characterization of a High Density SNP Genotyping Assay for Cattle. PLoS ONE, 2009, 4, e5350.	2.5	813
4	Genome-Wide Survey of SNP Variation Uncovers the Genetic Structure of Cattle Breeds. Science, 2009, 324, 528-532.	12.6	746
5	Design of a High Density SNP Genotyping Assay in the Pig Using SNPs Identified and Characterized by Next Generation Sequencing Technology. PLoS ONE, 2009, 4, e6524.	2.5	568
6	SNP discovery and allele frequency estimation by deep sequencing of reduced representation libraries. Nature Methods, 2008, 5, 247-252.	19.0	534
7	Worldwide Patterns of Ancestry, Divergence, and Admixture in Domesticated Cattle. PLoS Genetics, 2014, 10, e1004254.	3.5	391
8	De novo assembly of the cattle reference genome with single-molecule sequencing. GigaScience, 2020, 9, .	6.4	380
9	Meta-analysis of genome-wide association studies for cattle stature identifies common genes that regulate body size in mammals. Nature Genetics, 2018, 50, 362-367.	21.4	286
10	Bottlenecks and selective sweeps during domestication have increased deleterious genetic variation in dogs. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 152-157.	7.1	265
11	Copy number variation of individual cattle genomes using next-generation sequencing. Genome Research, 2012, 22, 778-790.	5.5	259
12	Distribution and location of genetic effects for dairy traits. Journal of Dairy Science, 2009, 92, 2931-2946.	3.4	210
13	A genome scan for quantitative trait loci influencing carcass, postâ€natal growth and reproductive traits in commercial Angus cattle. Animal Genetics, 2010, 41, 597-607.	1.7	209
14	Extent of genome-wide linkage disequilibrium in Australian Holstein-Friesian cattle based on a high-density SNP panel. BMC Genomics, 2008, 9, 187.	2.8	203
15	Whole genome linkage disequilibrium maps in cattle. BMC Genetics, 2007, 8, 74.	2.7	201
16	Resolving the evolution of extant and extinct ruminants with high-throughput phylogenomics. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 18644-18649.	7.1	196
17	Large-effect pleiotropic or closely linked QTL segregate within and across ten US cattle breeds. BMC Genomics, 2014, 15, 442.	2.8	191
18	Accuracies of genomic breeding values in American Angus beef cattle using K-means clustering for cross-validation. Genetics Selection Evolution, 2011, 43, 40.	3.0	174

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19	Selection of single-nucleotide polymorphisms and quality of genotypes used in genomic evaluation of dairy cattle in the United States and Canada. Journal of Dairy Science, 2009, 92, 3431-3436.	3.4	163
20	Genome-wide association study for feed efficiency and growth traits in U.S. beef cattle. BMC Genomics, 2017, 18, 386.	2.8	159
21	New World cattle show ancestry from multiple independent domestication events. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E1398-406.	7.1	126
22	Genome scan for meat quality traits in Nelore beef cattle. Physiological Genomics, 2013, 45, 1012-1020.	2.3	123
23	Genomeâ€wide association analysis for feed efficiency in Angus cattle. Animal Genetics, 2012, 43, 367-374.	1.7	110
24	A truncating mutation in ATP13A2 is responsible for adult-onset neuronal ceroid lipofuscinosis in Tibetan terriers. Neurobiology of Disease, 2011, 42, 468-474.	4.4	109
25	Global liver gene expression differences in Nelore steers with divergent residual feed intake phenotypes. BMC Genomics, 2015, 16, 242.	2.8	109
26	Detection of selective sweeps in cattle using genome-wide SNP data. BMC Genomics, 2013, 14, 382.	2.8	102
27	The players may change but the game remains: network analyses of ruminal microbiomes suggest taxonomic differences mask functional similarity. Nucleic Acids Research, 2015, 43, gkv973.	14.5	98
28	QTLs associated with dry matter intake, metabolic mid-test weight, growth and feed efficiency have little overlap across 4 beef cattle studies. BMC Genomics, 2014, 15, 1004.	2.8	97
29	Fine-mapping milk production quantitative trait loci on BTA6: Analysis of the bovine osteopontin gene. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 6896-6901.	7.1	95
30	An assessment of population structure in eight breeds of cattle using a whole genome SNP panel. BMC Genetics, 2008, 9, 37.	2.7	95
31	A whole genome association analysis identifies loci associated with <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> infection status in US holstein cattle. Animal Genetics, 2009, 40, 655-662.	1.7	92
32	Scans for signatures of selection in Russian cattle breed genomes reveal new candidate genes for environmental adaptation and acclimation. Scientific Reports, 2018, 8, 12984.	3.3	85
33	Evaluation of approaches for identifying population informative markers from high density SNP Chips. BMC Genetics, 2011, 12, 45.	2.7	83
34	Diversity and evolution of 11 innate immune genes in <i>Bos taurus taurus</i> and <i>Bos taurus indicus</i> cattle. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 151-156.	7.1	81
35	Early cave art and ancient DNA record the origin of European bison. Nature Communications, 2016, 7, 13158.	12.8	81
36	Genomeâ€wide association analysis for quantitative trait loci influencing <scp>W</scp> arner– <scp>B</scp> ratzler shear force in five taurine cattle breeds. Animal Genetics, 2012, 43, 662-673.	1.7	76

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37	A physical map of the bovine genome. Genome Biology, 2007, 8, R165.	9.6	73
38	Whole-genome scan to detect QTL for milk production, conformation, fertility and functional traits in two US Holstein families. Animal Genetics, 2005, 36, 408-416.	1.7	70
39	Identification of loci associated with tolerance to Johne's disease in Holstein cattle. Animal Genetics, 2011, 42, 28-38.	1.7	63
40	Accuracy of direct genomic breeding values for nationally evaluated traits in US Limousin and Simmental beef cattle. Genetics Selection Evolution, 2012, 44, 38.	3.0	63
41	Review: Genomics of bull fertility. Animal, 2018, 12, s172-s183.	3.3	63
42	A Homozygous <i>KCNJ10</i> Mutation in Jack Russell Terriers and Related Breeds with Spinocerebellar Ataxia with Myokymia, Seizures, or Both. Journal of Veterinary Internal Medicine, 2014, 28, 871-877.	1.6	60
43	Diversity and population-genetic properties of copy number variations and multicopy genes in cattle. DNA Research, 2016, 23, 253-262.	3.4	59
44	Validation of 15 microsatellites for parentage testing in North American bison,Bison bisonand domestic cattle. Animal Genetics, 2000, 31, 360-366.	1.7	57
45	Gene expression differences in Longissimus muscle of Nelore steers genetically divergent for residual feed intake. Scientific Reports, 2016, 6, 39493.	3.3	57
46	BOARD-INVITED REVIEW: Applications of genomic information in livestock1. Journal of Animal Science, 2007, 85, 3148-3158.	0.5	56
47	Comparison of molecular breeding values based on within- and across-breed training in beef cattle. Genetics Selection Evolution, 2013, 45, 30.	3.0	56
48	AnADAMTS17Splice Donor Site Mutation in Dogs with Primary Lens Luxation. , 2010, 51, 4716.		55
49	A Novel Mutation in the Maternally Imprinted PEG3 Domain Results in a Loss of MIMT1 Expression and Causes Abortions and Stillbirths in Cattle (Bos taurus). PLoS ONE, 2010, 5, e15116.	2.5	55
50	Recombination locations and rates in beef cattle assessed from parent-offspring pairs. Genetics Selection Evolution, 2014, 46, 34.	3.0	52
51	Immunological Response to Single Pathogen Challenge with Agents of the Bovine Respiratory Disease Complex: An RNA-Sequence Analysis of the Bronchial Lymph Node Transcriptome. PLoS ONE, 2015, 10, e0131459.	2.5	51
52	Conservation genomics: disequilibrium mapping of domestic cattle chromosomal segments in North American bison populations. Molecular Ecology, 2005, 14, 2343-2362.	3.9	50
53	Impact of reduced marker set estimation of genomic relationship matrices on genomic selection for feed efficiency in Angus cattle. BMC Genetics, 2010, 11, 24.	2.7	50
54	Predicting expected progeny difference for marbling score in Angus cattle using artificial neural networks and Bayesian regression models. Genetics Selection Evolution, 2013, 45, 34.	3.0	50

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55	Association analysis of adiponectin and somatostatin polymorphisms on BTA1 with growth and carcass traits in Angus cattle. Animal Genetics, 2006, 37, 554-562.	1.7	49
56	Evolution of the Bovine TLR Gene Family and Member Associations with Mycobacterium avium Subspecies Paratuberculosis Infection. PLoS ONE, 2011, 6, e27744.	2.5	48
57	SNPchiMp: a database to disentangle the SNPchip jungle in bovine livestock. BMC Genomics, 2014, 15, 123.	2.8	47
58	Linkage disequilibrium and signatures of selection on chromosomes 19 and 29 in beef and dairy cattle. Animal Genetics, 2008, 39, 597-605.	1.7	42
59	Candidate lethal haplotypes and causal mutations in Angus cattle. BMC Genomics, 2017, 18, 799.	2.8	42
60	A multi-breed reference panel and additional rare variants maximize imputation accuracy in cattle. Genetics Selection Evolution, 2019, 51, 77.	3.0	42
61	An ensemble-based approach to imputation of moderate-density genotypes for genomic selection with application to Angus cattle. Genetical Research, 2012, 94, 133-150.	0.9	40
62	Detection of quantitative trait loci for mineral content of Nelore longissimus dorsi muscle. Genetics Selection Evolution, 2015, 47, 15.	3.0	40
63	A CLN8 nonsense mutation in the whole genome sequence of a mixed breed dog with neuronal ceroid lipofuscinosis and Australian Shepherd ancestry. Molecular Genetics and Metabolism, 2014, 112, 302-309.	1.1	38
64	Comparison of Bayesian models to estimate direct genomic values in multi-breed commercial beef cattle. Genetics Selection Evolution, 2015, 47, 23.	3.0	38
65	Genetic Mapping of Canine Multiple System Degeneration and Ectodermal Dysplasia Loci. Journal of Heredity, 2005, 96, 727-734.	2.4	37
66	A novel analytical method, Birth Date Selection Mapping, detects response of the Angus (Bos taurus) genome to selection on complex traits. BMC Genomics, 2012, 13, 606.	2.8	37
67	Genome-wide association and genotype by environment interactions for growth traits in U.S. Gelbvieh cattle. BMC Genomics, 2019, 20, 926.	2.8	37
68	Construction of bovine wholeâ€genome radiation hybrid and linkage maps using highâ€ŧhroughput genotyping. Animal Genetics, 2007, 38, 120-125.	1.7	36
69	Golden Retriever dogs with neuronal ceroid lipofuscinosis have a two-base-pair deletion and frameshift in CLN5. Molecular Genetics and Metabolism, 2015, 115, 101-109.	1.1	36
70	A rare homozygous MFSD8 single-base-pair deletion and frameshift in the whole genome sequence of a Chinese Crested dog with neuronal ceroid lipofuscinosis. BMC Veterinary Research, 2014, 10, 960.	1.9	35
71	Genome-Wide SNP Discovery in Indigenous Cattle Breeds of South Africa. Frontiers in Genetics, 2019, 10, 273.	2.3	35
72	A Truncated Retrotransposon Disrupts the <i>GRM1</i> Coding Sequence in Coton de Tulear Dogs with Bandera's Neonatal Ataxia. Journal of Veterinary Internal Medicine, 2011, 25, 267-272.	1.6	34

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73	Australian Cattle Dogs with Neuronal Ceroid Lipofuscinosis are Homozygous for a <i>CLN5</i> Nonsense Mutation Previously Identified in Border Collies. Journal of Veterinary Internal Medicine, 2016, 30, 1149-1158.	1.6	34
74	What's in your next-generation sequence data? An exploration of unmapped DNA and RNA sequence reads from the bovine reference individual. BMC Genomics, 2015, 16, 1114.	2.8	32
75	Association of single nucleotide polymorphisms in candidate genes previously related to genetic variation in fertility with phenotypic measurements of reproductive function in Holstein cows. Journal of Dairy Science, 2017, 100, 3725-3734.	3.4	32
76	Identification of genomic variants causing sperm abnormalities and reduced male fertility. Animal Reproduction Science, 2018, 194, 57-62.	1.5	32
77	Characterization and Mode of Inheritance of a Paroxysmal Dyskinesia in Chinook Dogs. Journal of Veterinary Internal Medicine, 2010, 24, 1305-1313.	1.6	30
78	Depot-specific gene expression profiles during differentiation and transdifferentiation of bovine muscle satellite cells, and differentiation of preadipocytes. Genomics, 2012, 100, 195-202.	2.9	30
79	Imputation of microsatellite alleles from dense SNP genotypes for parentage verification across multiple Bos taurus and Bos indicus breeds. Frontiers in Genetics, 2013, 4, 176.	2.3	29
80	Differential introgression of uniparentally inherited markers in bison populations with hybrid ancestries. Animal Genetics, 2001, 32, 89-91.	1.7	28
81	Mapping of fertility traits in Finnish Ayrshire by genomeâ€wide association analysis. Animal Genetics, 2011, 42, 263-269.	1.7	28
82	Tissue Tropism in Host Transcriptional Response to Members of the Bovine Respiratory Disease Complex. Scientific Reports, 2017, 7, 17938.	3.3	28
83	Lessons for livestock genomics from genome and transcriptome sequencing in cattle and other mammals. Genetics Selection Evolution, 2016, 48, 59.	3.0	25
84	Assessment of DNA extracted from FTA® cards for use on the Illumina iSelect BeadChip. BMC Research Notes, 2009, 2, 107.	1.4	24
85	Homozygous <i>PPT1</i> Splice Donor Mutation in a Cane Corso Dog With Neuronal Ceroid Lipofuscinosis. Journal of Veterinary Internal Medicine, 2017, 31, 149-157.	1.6	24
86	A homozygous PIGN missense mutation in Soft-Coated Wheaten Terriers with a canine paroxysmal dyskinesia. Neurogenetics, 2017, 18, 39-47.	1.4	23
87	Powerful detection of polygenic selection and evidence of environmental adaptation in US beef cattle. PLoS Genetics, 2021, 17, e1009652.	3.5	23
88	A neonatal encephalopathy with seizures in standard poodle dogs with a missense mutation in the canine ortholog of ATF2. Neurogenetics, 2008, 9, 41-49.	1.4	22
89	Genome-wide DNA methylation analysis in precursor B-cells. Epigenetics, 2014, 9, 1588-1595.	2.7	22
90	A mutation in the Warburg syndrome gene, RAB3GAP1, causes a similar syndrome with polyneuropathy and neuronal vacuolation in Black Russian Terrier dogs. Neurobiology of Disease, 2016, 86, 75-85.	4.4	22

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91	Genome-wide association analyses identify genotype-by-environment interactions of growth traits in Simmental cattle. Scientific Reports, 2021, 11, 13335.	3.3	22
92	Characterization of the rat developmental liver transcriptome. Physiological Genomics, 2013, 45, 301-311.	2.3	21
93	Spliced genes in muscle from Nelore Cattle and their association with carcass and meat quality. Scientific Reports, 2020, 10, 14701.	3.3	21
94	High density linkage disequilibrium maps of chromosome 14 in Holstein and Angus cattle. BMC Genetics, 2008, 9, 45.	2.7	20
95	Genome-Wide Scan for Visceral Leishmaniasis in Mixed-Breed Dogs Identifies Candidate Genes Involved in T Helper Cells and Macrophage Signaling. PLoS ONE, 2015, 10, e0136749.	2.5	19
96	RAPTR-SV: a hybrid method for the detection of structural variants. Bioinformatics, 2015, 31, 2084-2090.	4.1	18
97	Characterization of DGAT1 Allelic Effects in a Sample of North American Holstein Cattle. Animal Biotechnology, 2010, 21, 88-99.	1.5	17
98	Origins of cattle on Chirikof Island, Alaska, elucidated from genome-wide SNP genotypes. Heredity, 2016, 116, 502-505.	2.6	16
99	<scp>GM</scp> 2 Gangliosidosis in Shiba Inu Dogs with an Inâ€Frame Deletion in <i><scp>HEXB</scp></i> . Journal of Veterinary Internal Medicine, 2017, 31, 1520-1526.	1.6	16
100	The color of a Dalmatian's spots: linkage evidence to support the TYRP1 gene. BMC Veterinary Research, 2005, 1, 1.	1.9	15
101	Symposium review: Advances in sequencing technology herald a new frontier in cattle genomics and genome-enabled selection. Journal of Dairy Science, 2020, 103, 5278-5290.	3.4	15
102	Genetic Variation at a Metallothionein2APromoter Single-Nucleotide Polymorphism in White and Black Females in Midwestern United States. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2010, 73, 1283-1287.	2.3	14
103	Gene expression profiles during differentiation and transdifferentiation of bovine myogenic satellite cells. Genes and Genomics, 2012, 34, 133-148.	1.4	13
104	Genome-wide association and genotype by environment interactions for growth traits in U.S. Red Angus cattle. BMC Genomics, 2022, 23, .	2.8	11
105	Development of a linkage map and QTL scan for growth traits in North American bison. Cytogenetic and Genome Research, 2003, 102, 59-64.	1.1	10
106	Introgression, admixture, and selection facilitate genetic adaptation to high-altitude environments in cattle. Genomics, 2021, 113, 1491-1503.	2.9	10
107	The accuracies of DNA-based estimates of genetic merit derived from Angus or multibreed beef cattle training populations1,2,3. Journal of Animal Science, 2012, 90, 4191-4202.	0.5	8
108	Results of the BRD CAP project: progress toward identifying genetic markers associated with BRD susceptibility. Animal Health Research Reviews, 2014, 15, 157-160.	3.1	8

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109	Identification of bovine CpG SNPs as potential targets for epigenetic regulation via DNA methylation. PLoS ONE, 2019, 14, e0222329.	2.5	8
110	Development and Application of Bovine and Porcine Oligonucleotide Arrays with Protein-Based Annotation. Journal of Biomedicine and Biotechnology, 2010, 2010, 1-11.	3.0	7
111	CRUMBLER: A tool for the prediction of ancestry in cattle. PLoS ONE, 2019, 14, e0221471.	2.5	7
112	QTL-mapping and genomic prediction for bovine respiratory disease in U.S. Holsteins using sequence imputation and feature selection. BMC Genomics, 2019, 20, 555.	2.8	6
113	Assignment of Canine MSS1 Microsatellite Markers to Chromosomes by Linkage Data. DNA Sequence, 2004, 15, 209-212.	0.7	4
114	Neuronal ceroid lipofuscinosis in a German Shorthaired Pointer associated with a previously reported CLN8 nonsense variant. Molecular Genetics and Metabolism Reports, 2019, 21, 100521.	1.1	4
115	Comparative mapping of bovine chromosome 27 with human chromosome 8 near a dairy form QTL in cattle. Cytogenetic and Genome Research, 2006, 112, 98-102.	1.1	3
116	Impaired collagen chaperone results in preterm PROM. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 13267-13268.	7.1	3
117	A Non-Synonymous Point Mutation in a WD-40 Domain Repeat of EML5 Leads to Decreased Bovine Sperm Quality and Fertility. Frontiers in Cell and Developmental Biology, 2022, 10, 872740.	3.7	3
118	A simple procedure for directly obtaining haplotype sequences of diploid genomes. BMC Genomics, 2015, 16, 642.	2.8	2
119	Using online tools at the Bovine Genome Database to manually annotate genes in the new reference genome. Animal Genetics, 2020, 51, 675-682.	1.7	2
120	Evidence of rare misassemblies in the bovine reference genome revealed by population genetic metrics. Animal Genetics, 2022, 53, 498-505.	1.7	2
121	Taurine and Indicine Haplotype Representation in Advanced Generation Individuals From Three American Breeds. Frontiers in Genetics, 2021, 12, 758394.	2.3	1
122	Exploring genetic variation and population structure in a threatened species, <i>Noturus placidus</i> , with whole-genome sequence data. G3: Genes, Genomes, Genetics, 2022, 12, .	1.8	1