Alison L Van Eenennaam

List of Publications by Year
in descending order

119 papers	3,942 citations	116194 36 h-index	162838 57 g-index
124 all docs	124 docs citations	124 times ranked	4089 citing authors

#	Article	IF	Citations
1	A deletion at the polled PC locus alone is not sufficient to cause a polled phenotype in cattle. Scientific Reports, 2022, 12, 2067.	1.6	5
2	Synergistic power of genomic selection, assisted reproductive technologies, and gene editing to drive genetic improvement of cattle. CABI Agriculture and Bioscience, 2022, 3, .	1.1	17
3	Ten simple rules to ruin a collaborative environment. PLoS Computational Biology, 2022, 18, e1009957.	1.5	1
4	Animal Health and Food Safety Analyses of Six Offspring of a Genome-Edited Hornless Bull. , 2022, 1, 192-206.		3
5	LincRNA#1 knockout alone does not affect polled phenotype in cattle heterozygous for the celtic POLLED allele. Scientific Reports, 2022, 12, 7627.	1.6	1
6	Genetic Engineering of Livestock: The Opportunity Cost of Regulatory Delay. Annual Review of Animal Biosciences, 2021, 9, 453-478.	3.6	34
7	One-step generation of a targeted knock-in calf using the CRISPR-Cas9 system in bovine zygotes. BMC Genomics, 2021, 22, 118.	1.2	14
8	Comparison of Gene Editing Versus Conventional Breeding to Introgress the POLLED Allele Into the Tropically Adapted Australian Beef Cattle Population. Frontiers in Genetics, 2021, 12, 593154.	1.1	12
9	Functional annotations of three domestic animal genomes provide vital resources for comparative and agricultural research. Nature Communications, 2021, 12, 1821.	5.8	105
10	Electroporation-Mediated Genome Editing of Livestock Zygotes. Frontiers in Genetics, 2021, 12, 648482.	1.1	17
11	Animal board invited review: Animal agriculture and alternative meats â€“ learning from past science communication failures. Animal, 2021, 15, 100360.	1.3	15
12	Etiology and risk factors for bovine respiratory disease in pre-weaned calves on California dairies and calf ranches. Preventive Veterinary Medicine, 2021, 197, 105506.	0.7	8
13	Genomic and phenotypic analyses of six offspring of a genome-edited hornless bull. Nature Biotechnology, 2020, 38, 225-232.	9.4	69
14	Preweaning cost of bovine respiratory disease (BRD) and cost-benefit of implementation of preventative measures in calves on California dairies: The BRD 10K study. Journal of Dairy Science, 2020, 103, 1583-1597.	1.4	45
15	A comparative analysis of chromatin accessibility in cattle, pig, and mouse tissues. BMC Genomics, 2020, 21, 698.	1.2	43
16	Genome editing approaches to augment livestock breeding programs. Journal of Experimental Biology, 2020, 223, .	0.8	44
17	Harnessing endogenous repair mechanisms for targeted gene knock-in of bovine embryos. Scientific Reports, 2020, 10, 16031.	1.6	5
18	Efficient One-Step Knockout by Electroporation of Ribonucleoproteins Into Zona-Intact Bovine Embryos. Frontiers in Genetics, 2020, 11, 570069.	1.1	15

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19	Evaluation of mutation rates, mosaicism and off target mutations when injecting Cas9 mRNA or protein for genome editing of bovine embryos. Scientific Reports, 2020, 10, 22309.	1.6	24
20	A novel risk assessment tool for bovine respiratory disease in preweaned dairy calves. Journal of Dairy Science, 2020, 103, 9301-9317.	1.4	14
21	PSX-32 Late-Breaking Abstract: Production of a Gene Knock-In Bull Calf by Embryo-Mediated Genome Editing. Journal of Animal Science, 2020, 98, 358-359.	0.2	0
22	120 The future of genome editing in food animal species. Journal of Animal Science, 2020, 98, 48-49.	0.2	0
23	Management of lethal recessive alleles in beef cattle through the use of mate selection software. Genetics Selection Evolution, 2019, 51, 36.	1.2	11
24	Management factors associated with bovine respiratory disease in preweaned calves on California dairies: The BRD 100 study. Journal of Dairy Science, 2019, 102, 7288-7305.	1.4	35
25	Genome to Phenome: Improving Animal Health, Production, and Well-Being â€“ A New USDA Blueprint for Animal Genome Research 2018â€“2027. Frontiers in Genetics, 2019, 10, 327.	1.1	118
26	Application of genome editing in farm animals: cattle. Transgenic Research, 2019, 28, 93-100.	1.3	50
27	Epidemiology of bovine respiratory disease (BRD) in preweaned calves on California dairies: The BRD 10K study. Journal of Dairy Science, 2019, 102, 7306-7319.	1.4	48
28	Bovine respiratory disease (BRD) cause-specific and overall mortality in preweaned calves on California dairies: The BRD 10K study. Journal of Dairy Science, 2019, 102, 7320-7328.	1.4	43
29	Comparison of gene editing versus conventional breeding to introgress the POLLED allele into the US dairy cattle population. Journal of Dairy Science, 2019, 102, 4215-4226.	1.4	45
30	Proposed U.S. regulation of gene-edited food animals is not fit for purpose. Npj Science of Food, 2019, 3, 3.	2.5	27
31	328 Awardee Talk: The importance of genetic improvement to the sustainability of animal agriculture. Journal of Animal Science, 2019, 97, 52-52.	0.2	0
32	Association of plasma haptoglobin concentration and other biomarkers with bovine respiratory disease status in pre-weaned dairy calves. Journal of Veterinary Diagnostic Investigation, 2019, 31, 40-46.	0.5	21
33	Regional management practices and prevalence of bovine respiratory disease in California's preweaned dairy calves. Journal of Dairy Science, 2019, 102, 7583-7596.	1.4	37
34	Genetic Improvement of Food Animals: Past and Future. , 2019, , 171-180.		1
35	Science Breakthroughs to Advance Food and Agricultural Research by 2030. , 2019, , .		27
36	The use of gene editing techniques in dairy cattle breeding. Burleigh Dodds Series in Agricultural Science, 2019, , 571-602.	0.1	0

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37	The Importance of a Novel Product Risk-Based Trigger for Gene-Editing Regulation in Food Animal Species. CRISPR Journal, 2018, 1, 101-106.	1.4	15
38	Simulation of introgression of the POLLED allele into the Jersey breed via conventional breeding vs. gene editing1. Translational Animal Science, 2018, 2, S57-S60.	0.4	5
39	Comparison of economic returns among genetic evaluation strategies in a 2-tiered Charolais-sired beef cattle production system1,2. Journal of Animal Science, 2018, 96, 4076-4086.	0.2	1
40	Genome-wide identification of tissue-specific long non-coding RNA in three farm animal species. BMC Genomics, 2018, 19, 684.	1.2	118
41	Public Perception of Animal Biotechnology. , 2018, , 275-303.		8
42	The contribution of transgenic and genome-edited animals to agricultural and industrial applications. OIE Revue Scientifique Et Technique, 2018, 37, 97-112.	0.5	4
43	The Uses of Biotechnology to Improve Animal Welfare. , 2018, , 51-59.		0
44	Genome Report: Identification and Validation of Antigenic Proteins from Pajaroellobacter abortibovis Using De Novo Genome Sequence Assembly and Reverse Vaccinology. G3: Genes, Genomes, Genetics, 2017, 7, 321-331.	0.8	8
45	Whole-Genome Sequencing and Concordance Between Antimicrobial Susceptibility Genotypes and Phenotypes of Bacterial Isolates Associated with Bovine Respiratory Disease. G3: Genes, Genomes, Genetics, 2017, 7, 3059-3071.	0.8	19
46	Genetic modification of food animals. Current Opinion in Biotechnology, 2017, 44, 27-34.	3.3	54
47	Tissue Tropism in Host Transcriptional Response to Members of the Bovine Respiratory Disease Complex. Scientific Reports, 2017, 7, 17938.	1.6	28
48	025 Identification of variants causing early embryonic loss in beef cattle. Journal of Animal Science, 2017, 95, 11-11.	0.2	0
49	733 Genetically engineered feed: Impact on animal performance, health and products. Journal of Animal Science, 2017, 95, 357-357.	0.2	2
50	Detection of dietary DNA, protein, and glyphosate in meat, milk, and eggs. Journal of Animal Science, 2017, 95, 3247.	0.2	10
51	Gene editing: Breeding or GMO?. , 2017, 1, .		0
52	P1043 Identification of regulatory elements in 3 domesticated species. Journal of Animal Science, 2016, 94, 35-36.	0.2	0
53	Rapid Communication: Variance component estimates for Charolais-sired fed cattle and relative economic impact of bovine respiratory disease1. Journal of Animal Science, 2016, 94, 5456-5460.	0.2	9
54	P6032 Identification and characterization of a novel pathogen causing bovine abortion. Journal of Animal Science, 2016, 94, 164-165.	0.2	0

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55	Analysis of validated and population-specific single nucleotide polymorphism parentage panels in pedigreed and commercial beef cattle populations. Canadian Journal of Animal Science, 2016, , 231-240.	0.7	5
56	Ten transgenic animal research conferences and counting. Transgenic Research, 2016, 25, 271-272.	1.3	0
57	Regulate genome-edited products, not genome editing itself. Nature Biotechnology, 2016, 34, 477-479.	9.4	34
58	Survey of management practices related to bovine respiratory disease in preweaned calves on California dairies. Journal of Dairy Science, 2016, 99, 1483-1494.	1.4	32
59	Sensitivity and specificity of on-farm scoring systems and nasal culture to detect bovine respiratory disease complex in preweaned dairy calves. Journal of Veterinary Diagnostic Investigation, 2016, 28, 119-128.	0.5	45
60	Identification of Gene Networks for Residual Feed Intake in Angus Cattle Using Genomic Prediction and RNA-seq. PLoS ONE, 2016, 11, e0152274.	1.1	106
61	Gene Editing: Do not forget about Animal Agriculture. Journal of Advanced Research in Biotechnology, 2016, 1, 1-2.	0.4	1
62	The Current and Future Uses of Biotechnology in Animal Agriculture. Ceiba, 2016, 54, 72-81.	0.2	2
63	Animal agriculture and the importance of agnostic governance of biotechnology. Agriculture and Food Security, 2015, 4, .	1.6	5
64	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.	1.1	51
65	A Metagenomics and Case-Control Study To Identify Viruses Associated with Bovine Respiratory Disease. Journal of Virology, 2015, 89, 5340-5349.	1.5	181
66	Single Pathogen Challenge with Agents of the Bovine Respiratory Disease Complex. PLoS ONE, 2015, 10, e0142479.	1.1	56
67	Evaluation of bull prolificacy on commercial beef cattle ranches using DNA paternity analysis12. Journal of Animal Science, 2014, 92, 2693-2701.	0.2	8
68	Agreement between bovine respiratory disease scoring systems for pre-weaned dairy calves. Animal Health Research Reviews, 2014, 15, 148-150.	1.4	21
69	Results of the BRD CAP project: progress toward identifying genetic markers associated with BRD susceptibility. Animal Health Research Reviews, 2014, 15, 157-160.	1.4	8
70	Applied Animal Genomics: Results from the Field. Annual Review of Animal Biosciences, 2014, 2, 105-139.	3.6	102
71	Prevalence and impacts of genetically engineered feedstuffs on livestock populations1. Journal of Animal Science, 2014, 92, 4255-4278.	0.2	109
72	Susceptibility loci revealed for bovine respiratory disease complex in pre-weaned holstein calves. BMC Genomics, 2014, 15, 1164.	1.2	85

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73	Development of a novel clinical scoring system for on-farm diagnosis of bovine respiratory disease in pre-weaned dairy calves. PeerJ, 2014, 2, e238.	0.9	126
74	Considerations Related to Breed or Biological Type. Veterinary Clinics of North America - Food Animal Practice, 2013, 29, 493-516.	0.5	6
75	GMOs in animal agriculture: time to consider both costs and benefits in regulatory evaluations. Journal of Animal Science and Biotechnology, 2013, 4, 37.	2.1	23
76	Genome-wide association study of concentrations of iron and other minerals in longissimus muscle of Angus cattle1. Journal of Animal Science, 2013, 91, 3593-3600.	0.2	10
77	Genetic parameters for concentrations of minerals in longissimus muscle and their associations with palatability traits in Angus cattle1. Journal of Animal Science, 2013, 91, 1067-1075.	0.2	30
78	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.	1.1	29
79	Accuracy of genomic breeding values in multibreed beef cattle populations derived from deregressed breeding values and phenotypes1,2. Journal of Animal Science, 2012, 90, 4177-4190.	0.2	50
80	Where in the beef-cattle supply chain might DNA tests generate value?. Animal Production Science, 2012, 52, 185.	0.6	18
81	Genetic parameters for carnitine, creatine, creatinine, carnosine, and anserine concentration in longissimus muscle and their association with palatability traits in Angus cattle1. Journal of Animal Science, 2012, 90, 4248-4255.	0.2	33
82	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.	0.2	8
83	Genetic polymorphisms in bovine transferrin receptor 2 (TFR2) and solute carrier family 40 (ironâ€regulated transporter), member 1 (SLC40A1) genes and their association with beef iron content. Animal Genetics, 2012, 43, 115-122.	0.6	13
84	Hot topic: Performance of bovine high-density genotyping platforms in Holsteins and Jerseys. Journal of Dairy Science, 2011, 94, 6116-6121.	1.4	82
85	The value of using DNA markers for beef bull selection in the seedstock sector1,2. Journal of Animal Science, 2011, 89, 307-320.	0.2	25
86	Reproductive abnormalities in mice expressing omega-3 fatty acid desaturase in their mammary glands. Transgenic Research, 2011, 20, 283-292.	1.3	16
87	FLPe functions in zebrafish embryos. Transgenic Research, 2011, 20, 409-415.	1.3	25
88	Transgenic salmon: a final leap to the grocery shelf?. Nature Biotechnology, 2011, 29, 706-710.	9.4	51
89	Feedlot efficiency implications on greenhouse gas emissions and sustainability1. Journal of Animal Science, 2011, 89, 2643-2656.	0.2	43
90	Precision genetics for complex objectives in animal agriculture. Journal of Animal Science, 2010, 88, 2530-2539.	0.2	48

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91	Complex I-Associated Hydrogen Peroxide Production Is Decreased and Electron Transport Chain Enzyme Activities Are Altered in n-3 Enriched fat-1 Mice. PLoS ONE, 2010, 5, e12696.	1.1	49
92	Integrated data-collection system tracks beef cattle from conception to carcass. California Agriculture, 2010, 64, 94-100.	0.5	2
93	Field or lab, risks the same. Genetically modified foods are just as safe as conventional foods. Modern Healthcare, 2009, 39, 24.	0.0	0
94	Transgenic approaches for the reproductive containment of genetically engineered fish. Aquaculture, 2008, 275, 1-12.	1.7	44
95	Manipulation of Milk Fat Composition Through Transgenesis. , 2008, 606, 345-356.		1
96	Neonatal Growth Rate and Development of Mice Raised on Milk Transgenically Enriched With Omega-3 Fatty Acids. Pediatric Research, 2007, 62, 412-416.	1.1	20
97	Validation of commercial DNA tests for quantitative beef quality traits1,2. Journal of Animal Science, 2007, 85, 891-900.	0.2	173
98	DNA-based paternity analysis and genetic evaluation in a large, commercial cattle ranch setting1. Journal of Animal Science, 2007, 85, 3159-3169.	0.2	49
99	Endogenous Production and Elevated Levels of Long-Chain n-3 Fatty Acids in the Milk of Transgenic Mice. Journal of Dairy Science, 2006, 89, 3195-3201.	1.4	26
100	Mice raised on milk transgenically enriched with nâˆ’3 PUFA have increased brain docosahexaenoic acid. Lipids, 2006, 41, 543-549.	0.7	10
101	What is the future of animal biotechnology?. California Agriculture, 2006, 60, 132-139.	0.5	6
102	Hot Topic: Endogenous Production of n-3 and n-6 Fatty Acids in Mammalian Cells. Journal of Dairy Science, 2005, 88, 1142-1146.	1.4	20
103	Gonadotropin Hormone and Receptor Sequences from Model Teleost Species. Zebrafish, 2004, 1, 203-221.	0.5	8
104	Elevation of seed Î±-tocopherol levels using plant-based transcription factors targeted to an endogenous locus. Metabolic Engineering, 2004, 6, 101-108.	3.6	38
105	Engineering Vitamin E Content: From Arabidopsis Mutant to Soy Oil. Plant Cell, 2003, 15, 3007-3019.	3.1	231
106	Brief communication. Evidence of female heterogametic genetic sex determination in white sturgeon. , 1999, 90, 231-233.		73
107	INDUCTION AND GONADAL SEX OF MEIOTIC GYNOGENETIC AND POLYPLOID WHITE STURGEON (Acipenser) Tj ETQq1 1 0.784314 rg	0.3	0
108	Karyotype of the American Green Sturgeon. Transactions of the American Fisheries Society, 1999, 128, 175-177.	0.6	25

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109	Mitotic analysis of the North American white sturgeon, Acipenser transmontanus Richardson (Pisces, Acipenseridae), a fish with a very high chromosome number. Genome, 1998, 41, 266-271.	0.9	23
110	Synaptonemal complex analysis in spermatocytes of white sturgeon, Acipenser transmontanus Richardson (Pisces, Acipenseridae), a fish with a very high chromosome number. Genome, 1998, 41, 51-61.	0.9	16
111	Rapid verification of meiotic gynogenesis and polyploidy in white sturgeon (Acipenser transmontanus) Tj ETQq1 1 0.784314 rgBT /Ov	1.7	80
112	Financial Analysis of Alternative Treatments for Clinical Mastitis Associated with Environmental Pathogens. Journal of Dairy Science, 1995, 78, 2086-2095.	1.4	35
113	Performance of Various Tests Used to Screen Antibiotic Residues in Milk Samples from Individual Animals. Journal of AOAC INTERNATIONAL, 1994, 77, 862-870.	0.7	20
114	Evaluation of Milk Antibiotic Residue Screening Tests in Cattle with Naturally Occurring Clinical Mastitis. Journal of Dairy Science, 1993, 76, 3041-3053.	1.4	48
115	Efficacy of Intramammary Antibiotic Therapy for Treatment of Clinical Mastitis Caused by Environmental Pathogens. Journal of Dairy Science, 1993, 76, 3437-3444.	1.4	88
116	Differences in Allelic Protein Expression in the Milk of Heterozygous Îº-Casein Cows. Journal of Dairy Science, 1991, 74, 1491-1496.	1.4	46
117	Milk Protein Polymorphisms in California Dairy Cattle. Journal of Dairy Science, 1991, 74, 1730-1742.	1.4	77
118	Animal Biotechnologies and Agricultural Sustainability. , 0, , 90-121.		0
119	Gene editing in livestock: promise, prospects and policy.. CAB Reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources, 0, , 1-14.	0.6	6