

# Sigrid A Lehnert

## List of Publications by Year in descending order

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102  
papers

3,893  
citations

116194

36  
h-index

150775

59  
g-index

105  
all docs

105  
docs citations

105  
times ranked

3657  
citing authors

#	ARTICLE	IF	CITATIONS
1	Genome-Wide Co-Expression Distributions as a Metric to Prioritize Genes of Functional Importance. <i>Genes</i> , 2020, 11, 1231.	1.0	1
2	In silico validation of pooled genotyping strategies for genomic evaluation in Angus cattle. <i>Journal of Animal Science</i> , 2020, 98, .	0.2	3
3	Pooled genotyping strategies for the rapid construction of genomic reference populations1. <i>Journal of Animal Science</i> , 2019, 97, 4761-4769.	0.2	14
4	Neuropeptidome of the Hypothalamus and Pituitary Gland of Indicine Ã— Taurine Heifers: Evidence of Differential Neuropeptide Processing in the Pituitary Gland before and after Puberty. <i>Journal of Proteome Research</i> , 2018, 17, 1852-1865.	1.8	13
5	Weighting genomic and genealogical information for genetic parameter estimation and breeding value prediction in tropical beef cattle. <i>Journal of Animal Science</i> , 2018, 96, 612-617.	0.2	5
6	Candidate mutations used to aid the prediction of genetic merit for female reproductive traits in tropical beef cattle. <i>Revista Brasileira De Zootecnia</i> , 2018, 47, .	0.3	4
7	Pre- and post-puberty expression of genes and proteins in the uterus of <i>Bos indicus</i> heifers: the luteal phase effect post-puberty. <i>Animal Genetics</i> , 2018, 49, 539-549.	0.6	20
8	STAT6, PBX2, and PBRM1 Emerge as Predicted Regulators of 452 Differentially Expressed Genes Associated With Puberty in Brahman Heifers. <i>Frontiers in Genetics</i> , 2018, 9, 87.	1.1	34
9	Evaluation of nonadditive effects in yearling weight of tropical beef cattle1. <i>Journal of Animal Science</i> , 2018, 96, 4028-4034.	0.2	13
10	Estimating the genetic merit of sires by using pooled DNA from progeny of undetermined pedigree. <i>Genetics Selection Evolution</i> , 2017, 49, 28.	1.2	19
11	Evaluation of non-additive genetic variation in feed-related traits of broiler chickens. <i>Poultry Science</i> , 2017, 96, 754-763.	1.5	7
12	Genomic inbreeding depression for climatic adaptation of tropical beef cattle1. <i>Journal of Animal Science</i> , 2017, 95, 3809-3821.	0.2	23
13	Global differential gene expression in the pituitary gland and the ovaries of pre- and postpubertal Brahman heifers1. <i>Journal of Animal Science</i> , 2017, 95, 599-615.	0.2	27
14	The <i>Bos taurus</i> – <i>Bos indicus</i> balance in fertility and milk related genes. <i>PLoS ONE</i> , 2017, 12, e0181930.	1.1	33
15	Global differential gene expression in the pituitary gland and the ovaries of pre- and postpubertal Brahman heifers. <i>Journal of Animal Science</i> , 2017, 95, 599.	0.2	14
16	Genomic inbreeding depression for climatic adaptation of tropical beef cattle. <i>Journal of Animal Science</i> , 2017, 95, 3809.	0.2	21
17	P5060 The effect of selection over years on breed composition in tropical composite cattle.. <i>Journal of Animal Science</i> , 2016, 94, 144.	0.2	1
18	Candidate Gene Expression in <i>Bos indicus</i> Ovarian Tissues: Prepubertal and Postpubertal Heifers in Diestrus. <i>Frontiers in Veterinary Science</i> , 2016, 3, 94.	0.9	7

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19	P1012 Liver transcriptome from pre versus post-pubertal Brahman heifers. <i>Journal of Animal Science</i> , 2016, 94, 20-21.	0.2	2
20	Transcriptome analyses identify five transcription factors differentially expressed in the hypothalamus of post- versus prepubertal Brahman heifers <sup>1</sup> . <i>Journal of Animal Science</i> , 2016, 94, 3693-3702.	0.2	27
21	Genomic analyses of tropical beef cattle fertility based on genotyping pools of Brahman cows with unknown pedigree <sup>1</sup> . <i>Journal of Animal Science</i> , 2016, 94, 4096-4108.	0.2	29
22	Polymorphisms and genes associated with puberty in heifers. <i>Theriogenology</i> , 2016, 86, 333-339.	0.9	12
23	Genome-wide association for the outcome of fixed-time artificial insemination of Brahman heifers in northern Australia <sup>1</sup> . <i>Journal of Animal Science</i> , 2015, 93, 5119-5127.	0.2	12
24	Prospecting major genes in dairy buffaloes. <i>BMC Genomics</i> , 2015, 16, 872.	1.2	97
25	The histone variant H2A.Z is dynamically expressed in the developing mouse placenta and in differentiating trophoblast stem cells. <i>Placenta</i> , 2015, 36, 1325-1328.	0.7	4
26	Genomic correlation: harnessing the benefit of combining two unrelated populations for genomic selection. <i>Genetics Selection Evolution</i> , 2015, 47, 84.	1.2	35
27	Low frequency of Y anomaly detected in Australian Brahman cow-herds. <i>Meta Gene</i> , 2015, 3, 59-61.	0.3	2
28	Non-synonymous mutations mapped to chromosome X associated with andrological and growth traits in beef cattle. <i>BMC Genomics</i> , 2015, 16, 384.	1.2	34
29	Multi-Tissue Omics Analyses Reveal Molecular Regulatory Networks for Puberty in Composite Beef Cattle. <i>PLoS ONE</i> , 2014, 9, e102551.	1.1	125
30	The Genetic Architecture of Climatic Adaptation of Tropical Cattle. <i>PLoS ONE</i> , 2014, 9, e113284.	1.1	128
31	Numerical analysis of intensity signals resulting from genotyping pooled DNA samples in beef cattle and broiler chicken <sup>1</sup> . <i>Journal of Animal Science</i> , 2014, 92, 1874-1885.	0.2	9
32	Variation in genes involved in epigenetic processes offers insights into tropically adapted cattle diversity. <i>Frontiers in Genetics</i> , 2014, 5, 89.	1.1	1
33	Evidence for positive selection of taurine genes within a QTL region on chromosome X associated with testicular size in Australian Brahman cattle. <i>BMC Genetics</i> , 2014, 15, 6.	2.7	21
34	Post-partum anoestrus in tropical beef cattle: A systems approach combining gene expression and genome-wide association results. <i>Livestock Science</i> , 2014, 166, 158-166.	0.6	11
35	A marker-derived gene network reveals the regulatory role of PPARGC1A, HNF4G, and FOXP3 in intramuscular fat deposition of beef cattle <sup>1</sup> . <i>Journal of Animal Science</i> , 2014, 92, 2832-2845.	0.2	77
36	Neuropeptidomics applied to studies of mammalian reproduction. <i>Peptidomics</i> , 2014, 1, .	0.3	4

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37	Evidence for pleiotropism and recent selection in the <i>PLAGL1</i> region in Australian beef cattle. <i>Animal Genetics</i> , 2013, 44, 636-647.	0.6	96
38	Genomic regions associated with fertility traits in male and female cattle: Advances from microsatellites to high-density chips and beyond. <i>Animal Reproduction Science</i> , 2013, 141, 1-19.	0.5	46
39	Transplanted germ cells persist long-term in irradiated ram testes. <i>Animal Reproduction Science</i> , 2013, 142, 137-140.	0.5	11
40	Depletion of testis cell populations in pre-pubertal <i>Bos indicus</i> cattle by irradiation. <i>Animal Reproduction Science</i> , 2013, 141, 124-130.	0.5	4
41	Genome-wide association study for inhibin, luteinizing hormone, insulin-like growth factor 1, testicular size and semen traits in bovine species. <i>Andrology</i> , 2013, 1, 644-650.	1.9	89
42	Tubule detection in testis images using boundary weighting and circular shortest path. , 2013, 2013, 3319-22.		1
43	Global proteomic profiling of the membrane compartment of bovine testis cell populations. <i>Journal of Integrated OMICS</i> , 2013, 3, .	0.5	1
44	Genome-wide association studies of female reproduction in tropically adapted beef cattle1. <i>Journal of Animal Science</i> , 2012, 90, 1398-1410.	0.2	133
45	Candidate Genes Associated with Testicular Development, Sperm Quality, and Hormone Levels of Inhibin, Luteinizing Hormone, and Insulin-Like Growth Factor 1 in Brahman Bulls1. <i>Biology of Reproduction</i> , 2012, 87, 58.	1.2	79
46	Gene network analyses of first service conception in Brangus heifers: Use of genome and trait associations, hypothalamic-transcriptome information, and transcription factors1. <i>Journal of Animal Science</i> , 2012, 90, 2894-2906.	0.2	66
47	Finding genes for economically important traits: Brahman cattle puberty. <i>Animal Production Science</i> , 2012, 52, 143.	0.6	95
48	Neuropeptide profiling of the bovine hypothalamus: Thermal stabilization is an effective tool in inhibiting post-mortem degradation. <i>Proteomics</i> , 2011, 11, 1264-1276.	1.3	27
49	In Vitro Manipulation of Mammalian Preimplantation Embryos Can Alter Transcript Abundance of Histone Variants and Associated Factors. <i>Cellular Reprogramming</i> , 2011, 13, 391-401.	0.5	6
50	A single nucleotide polymorphism-derived regulatory gene network underlying puberty in 2 tropical breeds of beef cattle1. <i>Journal of Animal Science</i> , 2011, 89, 1669-1683.	0.2	90
51	Transcription profiling provides insights into gene pathways involved in horn and scurs development in cattle. <i>BMC Genomics</i> , 2010, 11, 370.	1.2	32
52	Expression of genes coding for histone variants and histone-associated proteins in pluripotent stem cells and mouse preimplantation embryos. <i>Gene Expression Patterns</i> , 2010, 10, 299-305.	0.3	28
53	Profiles of Gonadal Gene Expression in the Developing Bovine Embryo. <i>Sexual Development</i> , 2009, 3, 273-283.	1.1	21
54	Gene expression patterns during intramuscular fat development in cattle1. <i>Journal of Animal Science</i> , 2009, 87, 119-130.	0.2	161

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55	Role of calcium and vesicle-docking proteins in remobilising dormant neuromuscular junctions in desert frogs. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2008, 194, 27-37.	0.7	7
56	Epigenetic silencers are enriched in dormant desert frog muscle. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2008, 178, 729-734.	0.7	22
57	New insights into SRY regulation through identification of 5' conserved sequences. <i>BMC Molecular Biology</i> , 2008, 9, 85.	3.0	19
58	Proteomic analysis of bovine conceptus fluids during early pregnancy. <i>Proteomics</i> , 2008, 8, 160-177.	1.3	25
59	Differential proteomic analysis of bovine conceptus fluid proteins in pregnancies generated by assisted reproductive technologies. <i>Proteomics</i> , 2008, 8, 2967-2982.	1.3	12
60	Conceptus-related measurements during the first trimester of bovine pregnancy. <i>Veterinary Journal</i> , 2008, 175, 266-272.	0.6	29
61	Obese humans as economically designed feed converters: Symmorphosis and low oxidative capacity skeletal muscle. <i>Medical Hypotheses</i> , 2008, 70, 693-697.	0.8	7
62	Gene expression profiling of porcine peripheral blood leukocytes after infection with <i>Actinobacillus pleuropneumoniae</i> . <i>Veterinary Immunology and Immunopathology</i> , 2008, 121, 260-274.	0.5	13
63	Short-term maternal psychological stress in the post-conception period in ewes affects fetal growth and gestation length. <i>Reproduction</i> , 2008, 136, 259-265.	1.1	12
64	Dissection of beef quality phenotypes using a myogenin network-anchored systems biology approach. <i>Australian Journal of Experimental Agriculture</i> , 2008, 48, 1053.	1.0	1
65	Recent advances in cattle functional genomics and their application to beef quality. <i>Animal</i> , 2007, 1, 159-173.	1.3	81
66	Universal reference method for real-time PCR gene expression analysis of preimplantation embryos. <i>BioTechniques</i> , 2007, 42, 199-206.	0.8	48
67	Gene expression studies of developing bovine longissimus muscle from two different beef cattle breeds. <i>BMC Developmental Biology</i> , 2007, 7, 95.	2.1	115
68	Skeletal muscle extracellular matrix remodelling after aestivation in the green striped burrowing frog, <i>Cyclorana alboguttata</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2007, 146, 440-445.	0.8	8
69	P2-10 Short term psychological stress following conception alters ovine fetal development. <i>Early Human Development</i> , 2007, 83, S132.	0.8	0
70	Gene expression profiling of Hereford Shorthorn cattle following challenge with <i>Boophilus microplus</i> tick larvae. <i>Australian Journal of Experimental Agriculture</i> , 2007, 47, 1397.	1.0	48
71	PROTEOMIC ANALYSIS OF CONCEPTUS FLUID FROM BOVINE PREGNANCIES: A COMPARISON OF NATURALLY CONCEIVED, SCNT AND IVF SAMPLES COLLECTED AT DAY 45 OF GESTATION. <i>Biology of Reproduction</i> , 2007, 77, 229-230.	1.2	0
72	QTL detection of production traits for the Kuruma prawn <i>Penaeus japonicus</i> (Bate) using AFLP markers. <i>Aquaculture</i> , 2006, 258, 198-210.	1.7	37

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73	A gene coexpression network for bovine skeletal muscle inferred from microarray data. <i>Physiological Genomics</i> , 2006, 28, 76-83.	1.0	38
74	Gene expression profiling of bovine skeletal muscle in response to and during recovery from chronic and severe undernutrition1. <i>Journal of Animal Science</i> , 2006, 84, 3239-3250.	0.2	60
75	Gene expression profiling of bovine in vitro adipogenesis using a cDNA microarray. <i>Functional and Integrative Genomics</i> , 2006, 6, 235-249.	1.4	53
76	Population genetic structure of the brown tiger prawn, <i>Penaeus esculentus</i> , in tropical northern Australia. <i>Marine Biology</i> , 2006, 148, 599-607.	0.7	13
77	Simultaneous identification of differential gene expression and connectivity in inflammation, adipogenesis and cancer. <i>Bioinformatics</i> , 2006, 22, 2396-2404.	1.8	66
78	Lessons from an estivating frog: sparing muscle protein despite starvation and disuse. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2006, 290, R836-R843.	0.9	35
79	Gene expression-based approaches to beef quality research. <i>Australian Journal of Experimental Agriculture</i> , 2006, 46, 165.	1.0	16
80	Gene expression profiling of muscle tissue in Brahman steers during nutritional restriction1. <i>Journal of Animal Science</i> , 2005, 83, 1-12.	0.2	109
81	Transcriptional profiling of skeletal muscle tissue from two breeds of cattle. <i>Mammalian Genome</i> , 2005, 16, 201-210.	1.0	135
82	Transcriptional profiling of muscle tissue in growing Japanese Black cattle to identify genes involved with the development of intramuscular fat. <i>Australian Journal of Experimental Agriculture</i> , 2005, 45, 809.	1.0	37
83	Construction of gene interaction and regulatory networks in bovine skeletal muscle from expression data. <i>Australian Journal of Experimental Agriculture</i> , 2005, 45, 821.	1.0	12
84	Nutrition-Gene Interactions (Post-Genomics)., 2005, , 411-428.		0
85	Joint analysis of multiple cDNA microarray studies via multivariate mixed models applied to genetic improvement of beef cattle1. <i>Journal of Animal Science</i> , 2004, 82, 3430-3439.	0.2	40
86	A mixed-model approach for the analysis of cDNA microarray gene expression data from extreme-performing pigs after infection with <i>Actinobacillus pleuropneumoniae</i> 1. <i>Journal of Animal Science</i> , 2004, 82, 1261-1271.	0.2	36
87	Development and application of a bovine cDNA microarray for expression profiling of muscle and adipose tissue. <i>Australian Journal of Experimental Agriculture</i> , 2004, 44, 1127.	1.0	39
88	Characterization of 23 Tri- and tetranucleotide Microsatellite Loci in the Brown Tiger Prawn, <i>Penaeus esculentus</i> . <i>Molecular Ecology Notes</i> , 2003, 3, 454-456.	1.7	5
89	Genetic mapping of the kuruma prawn <i>Penaeus japonicus</i> using AFLP markers. <i>Aquaculture</i> , 2003, 219, 143-156.	1.7	124
90	A mixture model-based cluster analysis of DNA microarray gene expression data on Brahman and Brahman composite steers fed high-, medium-, and low-quality diets1. <i>Journal of Animal Science</i> , 2003, 81, 1900-1910.	0.2	47

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91	Development of polymorphic EST markers in <i>Penaeus monodon</i> : applications in penaeid genetics. <i>Aquaculture</i> , 2002, 208, 69-79.	1.7	17
92	Genetic mapping of the black tiger shrimp <i>Penaeus monodon</i> with amplified fragment length polymorphism. <i>Aquaculture</i> , 2002, 204, 297-309.	1.7	205
93	Expression of hemocyanin and digestive enzyme messenger RNAs in the hepatopancreas of the Black Tiger Shrimp <i>Penaeus monodon</i> . <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2002, 133, 163-171.	0.7	66
94	Mapping of 12 bovine ribosomal protein genes using a bovine radiation hybrid panel. <i>Animal Genetics</i> , 2001, 32, 269-273.	0.6	16
95	Screening for intron-length polymorphisms in penaeid shrimps using exon-primed intron-crossing (EPIC)-PCR. <i>Molecular Ecology</i> , 2000, 9, 233-235.	2.0	57
96	The <i>Penaeus monodon</i> Chitinase 1 Gene Is Differentially Expressed in the Hepatopancreas During the Molt Cycle. <i>Marine Biotechnology</i> , 2000, 2, 126-135.	1.1	47
97	Tissue-Specific Expressed Sequence Tags from the Black Tiger Shrimp <i>Penaeus monodon</i> . <i>Marine Biotechnology</i> , 1999, 1, 465-476.	1.1	55
98	Isolation of a cDNA encoding a putative cellulase in the red claw crayfish <i>Cherax quadricarinatus</i> . <i>Gene</i> , 1999, 239, 317-324.	1.0	92
99	An engineered PGK promoter and lac operator-repressor system for the regulation of gene expression in mammalian cells. <i>Gene</i> , 1993, 130, 233-239.	1.0	20
100	The Role of TGF $\beta$ in Mouse Development. <i>Annals of the New York Academy of Sciences</i> , 1990, 593, 259-271.	1.8	40
101	Transforming growth factor betas in mammalian embryogenesis. <i>Progress in Growth Factor Research</i> , 1990, 2, 153-168.	1.7	51
102	The role of transforming growth factor- $\beta$ 2 in mouse development and carcinogenesis. <i>Biochemical Society Transactions</i> , 1989, 17, 595-597.	1.6	1