

Harris A Lewin

List of Publications by Year in descending order

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117
papers

14,354
citations

34105

52
h-index

24258

110
g-index

125
all docs

125
docs citations

125
times ranked

15642
citing authors

#	ARTICLE	IF	CITATIONS
1	Analyses of pig genomes provide insight into porcine demography and evolution. <i>Nature</i> , 2012, 491, 393-398.	27.8	1,190
2	Towards complete and error-free genome assemblies of all vertebrate species. <i>Nature</i> , 2021, 592, 737-746.	27.8	1,139
3	The Genome Sequence of Taurine Cattle: A Window to Ruminant Biology and Evolution. <i>Science</i> , 2009, 324, 522-528.	12.6	1,038
4	The yak genome and adaptation to life at high altitude. <i>Nature Genetics</i> , 2012, 44, 946-949.	21.4	708
5	Earth BioGenome Project: Sequencing life for the future of life. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 4325-4333.	7.1	652
6	Dynamics of Mammalian Chromosome Evolution Inferred from Multispecies Comparative Maps. <i>Science</i> , 2005, 309, 613-617.	12.6	542
7	Nuclear reprogramming of cloned embryos and its implications for therapeutic cloning. <i>Nature Genetics</i> , 2007, 39, 295-302.	21.4	533
8	The future of livestock breeding: genomic selection for efficiency, reduced emissions intensity, and adaptation. <i>Trends in Genetics</i> , 2013, 29, 206-214.	6.7	527
9	Broad host range of SARS-CoV-2 predicted by comparative and structural analysis of ACE2 in vertebrates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 22311-22322.	7.1	517
10	Identification of a missense mutation in the bovine <i>ABCG2</i> gene with a major effect on the QTL on chromosome 6 affecting milk yield and composition in Holstein cattle. <i>Genome Research</i> , 2005, 15, 936-944.	5.5	335
11	Nutrition-induced ketosis alters metabolic and signaling gene networks in liver of periparturient dairy cows. <i>Physiological Genomics</i> , 2007, 32, 105-116.	2.3	292
12	The development and analysis of species specific and cross reactive monoclonal antibodies to leukocyte differentiation antigens and antigens of the major histocompatibility complex for use in the study of the immune system in cattle and other species. <i>Veterinary Immunology and Immunopathology</i> , 1987, 15, 337-376.	1.2	277
13	An Ordered Comparative Map of the Cattle and Human Genomes. <i>Genome Research</i> , 2000, 10, 1359-1368.	5.5	271
14	Large-scale ruminant genome sequencing provides insights into their evolution and distinct traits. <i>Science</i> , 2019, 364, .	12.6	266
15	Draft genome sequence of the Tibetan antelope. <i>Nature Communications</i> , 2013, 4, 1858.	12.8	229
16	Rewirable gene regulatory networks in the preimplantation embryonic development of three mammalian species. <i>Genome Research</i> , 2010, 20, 804-815.	5.5	204
17	Temporal gene expression profiling of liver from periparturient dairy cows reveals complex adaptive mechanisms in hepatic function. <i>Physiological Genomics</i> , 2005, 23, 217-226.	2.3	198
18	Endometrium as an early sensor of in vitro embryo manipulation technologies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 5687-5692.	7.1	191

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19	Comparative Epigenomic Annotation of Regulatory DNA. <i>Cell</i> , 2012, 149, 1381-1392.	28.9	188
20	Global gene expression profiles reveal significant nuclear reprogramming by the blastocyst stage after cloning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 17582-17587.	7.1	184
21	Plane of nutrition prepartum alters hepatic gene expression and function in dairy cows as assessed by longitudinal transcript and metabolic profiling. <i>Physiological Genomics</i> , 2006, 27, 29-41.	2.3	173
22	A New Approach to the Problem of Multiple Comparisons in the Genetic Dissection of Complex Traits. <i>Genetics</i> , 1998, 150, 1699-1706.	2.9	165
23	Breakpoint regions and homologous synteny blocks in chromosomes have different evolutionary histories. <i>Genome Research</i> , 2009, 19, 770-777.	5.5	163
24	Every genome sequence needs a good map. <i>Genome Research</i> , 2009, 19, 1925-1928.	5.5	148
25	Gene expression profiles of bovine caruncular and intercaruncular endometrium at implantation. <i>Physiological Genomics</i> , 2009, 39, 14-27.	2.3	145
26	A near-chromosome-scale genome assembly of the gemsbok (<i>Oryx gazella</i>): an iconic antelope of the Kalahari desert. <i>GigaScience</i> , 2019, 8, .	6.4	138
27	Old and New Stories: Revelations from Functional Analysis of the Bovine Mammary Transcriptome during the Lactation Cycle. <i>PLoS ONE</i> , 2012, 7, e33268.	2.5	136
28	A 1463 Gene Cattleâ€“Human Comparative Map With Anchor Points Defined by Human Genome Sequence Coordinates. <i>Genome Research</i> , 2004, 14, 1424-1437.	5.5	133
29	A Cattleâ€“Human Comparative Map Built with Cattle BAC-Ends and Human Genome Sequence. <i>Genome Research</i> , 2003, 13, 1966-1972.	5.5	126
30	Comparative organization and function of the major histocompatibility complex of domesticated cattle. <i>Immunological Reviews</i> , 1999, 167, 145-158.	6.0	125
31	Reference-assisted chromosome assembly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 1785-1790.	7.1	124
32	Genome-wide adaptive complexes to underground stresses in blind mole rats <i>Spalax</i> . <i>Nature Communications</i> , 2014, 5, 3966.	12.8	124
33	The Earth BioGenome Project 2020: Starting the clock. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	124
34	A high-resolution whole-genome cattleâ€“human comparative map reveals details of mammalian chromosome evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 18526-18531.	7.1	115
35	Genetic Evaluation of a Demographic Bottleneck in the Greater Prairie Chicken. <i>Conservation Biology</i> , 1998, 12, 836-843.	4.7	114
36	Population genomics of the critically endangered <i>KÄpÄ</i> . <i>Cell Genomics</i> , 2021, 1, 100002.	6.5	106

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37	Reconstruction and evolutionary history of eutherian chromosomes. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E5379-E5388.	7.1	94
38	Chromosome Segregation Is Biased by Kinetochore Size. Current Biology, 2018, 28, 1344-1356.e5.	3.9	94
39	Inferring Demography from Runs of Homozygosity in Whole-Genome Sequence, with Correction for Sequence Errors. Molecular Biology and Evolution, 2013, 30, 2209-2223.	8.9	91
40	Platypus and echidna genomes reveal mammalian biology and evolution. Nature, 2021, 592, 756-762.	27.8	85
41	Association between BoLA and subclinical bovine leukemia virus infection in a herd of Holstein-Friesian cows. Immunogenetics, 1988, 27, 338-344.	2.4	76
42	Aberrant gene expression patterns in placentomes are associated with phenotypically normal and abnormal cattle cloned by somatic cell nuclear transfer. Physiological Genomics, 2008, 33, 65-77.	2.3	73
43	Whole-genome resequencing of two elite sires for the detection of haplotypes under selection in dairy cattle. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 7693-7698.	7.1	67
44	Close linkage between bovine prolactin and BoLA-DRB3 genes: Genetic mapping in cattle by single sperm typing. Genomics, 1992, 13, 44-48.	2.9	66
45	Identification of a nonsense mutation in APAF1 that is likely causal for a decrease in reproductive efficiency in Holstein dairy cattle. Journal of Dairy Science, 2016, 99, 6693-6701.	3.4	66
46	A 3800 GENE MICROARRAY FOR CATTLE FUNCTIONAL GENOMICS: COMPARISON OF GENE EXPRESSION IN SPLEEN, PLACENTA, AND BRAIN. Animal Biotechnology, 2002, 13, 163-172.	1.5	63
47	Diversity and population-genetic properties of copy number variations and multicopy genes in cattle. DNA Research, 2016, 23, 253-262.	3.4	59
48	Highly Conserved Regions of the Immunodominant Major Surface Protein 2 of the Genogroup II Ehrlichial Pathogen <i>Anaplasma marginale</i> Are Rich in Naturally Derived CD4+ T Lymphocyte Epitopes that Elicit Strong Recall Responses. Journal of Immunology, 2001, 166, 1114-1124.	0.8	58
49	CD4 + T Lymphocytes from Calves Immunized with <i>Anaplasma marginale</i> Major Surface Protein 1 (MSP1), a Heteromeric Complex of MSP1a and MSP1b, Preferentially Recognize the MSP1a Carboxyl Terminus That Is Conserved among Strains. Infection and Immunity, 2001, 69, 6853-6862.	2.2	57
50	Disease Resistance and Immune Response Genes in Cattle: Strategies for Their Detection and Evidence of Their Existence. Journal of Dairy Science, 1989, 72, 1334-1348.	3.4	56
51	DNA-Encoded Fetal Liver Tyrosine Kinase 3 Ligand and Granulocyte Macrophage-Colony-Stimulating Factor Increase Dendritic Cell Recruitment to the Inoculation Site and Enhance Antigen-Specific CD4+ T Cell Responses Induced by DNA Vaccination of Outbred Animals. Journal of Immunology, 2002, 169, 3837-3846.	0.8	56
52	Mammary gene expression profiles during an intramammary challenge reveal potential mechanisms linking negative energy balance with impaired immune response. Physiological Genomics, 2010, 41, 161-170.	2.3	56
53	Modulation of the Bovine Trophoblastic Innate Immune Response by <i>Brucella abortus</i> . Infection and Immunity, 2008, 76, 1897-1907.	2.2	55
54	Cloning and characterization of FAM13A1 gene near a milk protein QTL on BTA6: evidence for population-wide linkage disequilibrium in Israeli Holsteins. Genomics, 2004, 84, 374-383.	2.9	54

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55	Comparative analysis of 82 expressed sequence tags from a cattle ovary cDNA library. <i>Mammalian Genome</i> , 1998, 9, 545-549.	2.2	53
56	<i>Neospora caninum</i> -Infected Cattle Develop Parasite-Specific CD4 + Cytotoxic T Lymphocytes. <i>Infection and Immunity</i> , 2003, 71, 3272-3279.	2.2	53
57	A 7872 cDNA microarray and its use in bovine functional genomics. <i>Veterinary Immunology and Immunopathology</i> , 2005, 105, 235-245.	1.2	52
58	Why sequence all eukaryotes?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	51
59	Order of bovine DRB3, DYA, and PRL determined by sperm typing. <i>Mammalian Genome</i> , 1993, 4, 113-118.	2.2	47
60	Major Histocompatibility Complex Class II DR-Restricted Memory CD4 + T Lymphocytes Recognize Conserved Immunodominant Epitopes of <i>Anaplasma marginale</i> Major Surface Protein 1a. <i>Infection and Immunity</i> , 2002, 70, 5521-5532.	2.2	44
61	Massive dysregulation of genes involved in cell signaling and placental development in cloned cattle conceptus and maternal endometrium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 14492-14501.	7.1	44
62	Role of SPI-1 Secreted Effectors in Acute Bovine Response to <i>Salmonella enterica</i> Serovar Typhimurium: A Systems Biology Analysis Approach. <i>PLoS ONE</i> , 2011, 6, e26869.	2.5	41
63	Monoclonal antibodies that distinguish bovine T and B lymphocytes. <i>Veterinary Immunology and Immunopathology</i> , 1985, 9, 87-102.	1.2	40
64	Phylogenomic Analysis of the $\hat{\pm}$ Proteasome Gene Family from Early-Diverging Eukaryotes. <i>Journal of Molecular Evolution</i> , 2000, 51, 532-543.	1.8	40
65	Evolution of gene regulation in ruminants differs between evolutionary breakpoint regions and homologous synteny blocks. <i>Genome Research</i> , 2019, 29, 576-589.	5.5	39
66	Vertebrate Chromosome Evolution. <i>Annual Review of Animal Biosciences</i> , 2021, 9, 1-27.	7.4	34
67	Genetic Mapping of F13A to BTA23 by Sperm Typing: Difference in Recombination Rate between Bulls in the DYA-PRL Interval. <i>Genomics</i> , 1995, 27, 113-118.	2.9	33
68	Compass of 47,787 cattle ESTs. <i>Animal Biotechnology</i> , 2000, 11, 75-241.	1.5	33
69	A small set of extra-embryonic genes defines a new landmark for bovine embryo staging. <i>Reproduction</i> , 2011, 141, 79-89.	2.6	33
70	Standards recommendations for the Earth BioGenome Project. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	33
71	Conservation of <i>Babesia bovis</i> Small Heat Shock Protein (Hsp20) among Strains and Definition of T Helper Cell Epitopes Recognized by Cattle with Diverse Major Histocompatibility Complex Class II Haplotypes. <i>Infection and Immunity</i> , 2004, 72, 1096-1106.	2.2	31
72	Discovery of eight novel divergent homologs expressed in cattle placenta. <i>Physiological Genomics</i> , 2006, 25, 405-413.	2.3	30

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73	Uncoupled Embryonic and Extra-Embryonic Tissues Compromise Blastocyst Development after Somatic Cell Nuclear Transfer. PLoS ONE, 2012, 7, e38309.	2.5	29
74	It's a Bull's Market. Science, 2009, 324, 478-479.	12.6	28
75	SyntenTracker: a tool for defining homologous synteny blocks using radiation hybrid maps and whole-genome sequence. BMC Research Notes, 2009, 2, 148.	1.4	28
76	Phenotypic characterization of bovine lymphoblastoid cell lines. Veterinary Immunology and Immunopathology, 1989, 23, 293-307.	1.2	26
77	Use of Flow Cytometry and RT-PCR for Detecting Gene Expression by Single Cells. BioTechniques, 1996, 21, 286-291.	1.8	26
78	Development of persistent lymphocytosis in cattle is closely associated with DRB2. Immunogenetics, 1992, 37, 64-68.	2.4	25
79	Peripheral B Lymphocyte Percentage as an Indicator of Subclinical Progression of Bovine Leukemia Virus Infection. Journal of Dairy Science, 1988, 71, 2526-2534.	3.4	24
80	Systems Biology Analysis of Brucella Infected Peyer's Patch Reveals Rapid Invasion with Modest Transient Perturbations of the Host Transcriptome. PLoS ONE, 2013, 8, e81719.	2.5	24
81	Precision nomenclature for the new genomics. GigaScience, 2019, 8, .	6.4	23
82	Gene-Centromere Mapping of Bovine DYA, DRB3, and PRL Using Secondary Oocytes and First Polar Bodies: Evidence for Four-Strand Double Crossovers between DYA and DRB3. Genomics, 1995, 27, 33-39.	2.9	21
83	Messenger RNAs in metaphase II oocytes correlate with successful embryo development to the blastocyst stage. Zygote, 2014, 22, 69-79.	1.1	21
84	Cytokine mRNA expression in B cells from bovine leukemia virus-infected cattle with persistent lymphocytosis. Cytokine, 2004, 28, 25-28.	3.2	20
85	Systematic profiling of short tandem repeats in the cattle genome. Genome Biology and Evolution, 2016, 9, evw256.	2.5	20
86	The CALeDNA program: Citizen scientists and researchers inventory California's biodiversity. California Agriculture, 2021, 75, 20-32.	0.8	20
87	Africa: sequence 100,000 species to safeguard biodiversity. Nature, 2022, 603, 388-392.	27.8	19
88	Linkage information content and efficiency of full-sib and half-sib designs for gene mapping. Theoretical and Applied Genetics, 1995, 90, 699-706.	3.6	17
89	A phylogenetic analysis of cattle DRB3 alleles with a deletion of codon 65. Immunogenetics, 1997, 47, 23-29.	2.4	15
90	Changes in WNT signaling-related gene expression associated with development and cloning in bovine extra-embryonic and endometrial tissues during the peri-implantation period. Molecular Reproduction and Development, 2013, 80, 977-987.	2.0	15

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91	Fine-tuned adaptation of embryo–endometrium pairs at implantation revealed by transcriptome analyses in <i>Bos taurus</i> . <i>PLoS Biology</i> , 2019, 17, e3000046.	5.6	14
92	Augmin-dependent microtubule self-organization drives kinetochore fiber maturation in mammals. <i>Cell Reports</i> , 2022, 39, 110610.	6.4	14
93	Isoelectric focusing of bovine major histocompatibility complex class II molecules. <i>European Journal of Immunology</i> , 1989, 19, 567-570.	2.9	13
94	An integrated chromosome-scale genome assembly of the Masai giraffe (<i>Giraffa camelopardalis</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6	6.4	13
95	Monoclonal Antibodies: Pragmatic Application of Immunology and Cell Biology2. <i>Journal of Animal Science</i> , 1986, 63, 288-309.	0.5	12
96	Multisite haplotype on cattle chromosome 3 is associated with quantitative trait locus effects on lactation traits. <i>Physiological Genomics</i> , 2011, 43, 1185-1197.	2.3	12
97	Systems Analysis of Early Host Gene Expression Provides Clues for Transient <i>Mycobacterium avium</i> ssp <i>avium</i> vs. Persistent <i>Mycobacterium avium</i> ssp <i>paratuberculosis</i> Intestinal Infections. <i>PLoS ONE</i> , 2016, 11, e0161946.	2.5	12
98	Accelerated expansion of group IID-like phospholipase A2 genes in <i>Bos taurus</i> . <i>Genomics</i> , 2006, 87, 527-533.	2.9	11
99	Conservation of chromatin conformation in carnivores. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	11
100	Identification of a galactose-like component of a chicken onco-developmental antigen. <i>Journal of Heredity</i> , 1981, 72, 257-260.	2.4	10
101	RFLP analysis of SLA haplotypes in Swiss large white and American Hampshire pigs using SLA class I and class II probes. <i>Animal Biotechnology</i> , 1991, 2, 75-91.	1.5	10
102	Fine-Mapping of a Region of Variation in Recombination Rate on BTA23 to the D23S22–D23S23 Interval Using Sperm Typing and Meiotic Breakpoint Analysis. <i>Genomics</i> , 1999, 59, 143-149.	2.9	10
103	Predisposition of cows to mastitis in non-infected mammary glands: effects of dietary-induced negative energy balance during mid-lactation on immune-related genes. <i>Functional and Integrative Genomics</i> , 2011, 11, 151-156.	3.5	10
104	Development of a Syngeneic Bovine Fibroblast Cell Line: Implications for the Study of Bovine Cytotoxic T Lymphocytes. <i>Viral Immunology</i> , 1998, 11, 37-48.	1.3	9
105	Transferase activity function and system development process are critical in cattle embryo development. <i>Functional and Integrative Genomics</i> , 2011, 11, 139-150.	3.5	9
106	Aberrant expression of immunoglobulin mRNA in bovine leukemia virus-infected cattle. <i>Veterinary Immunology and Immunopathology</i> , 1996, 53, 87-94.	1.2	8
107	Ethical, legal, and social issues in the Earth BioGenome Project. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2115859119.	7.1	8
108	Characterization of a genetically segregating determinant of chicken fetal antigen by a new hapten inhibition of microcytotoxicity (HIM) assay. <i>Biochemical Genetics</i> , 1982, 20, 425-436.	1.7	7

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109	MHC class II-like genes in cattle, MHCLA, with similarity to genes encoding NK cell stimulatory ligands. Immunogenetics, 2003, 55, 16-22.	2.4	7
110	Synten Explorer: An Interactive Visualization Application for Teaching Genome Evolution. IEEE Transactions on Visualization and Computer Graphics, 2017, 23, 711-720.	4.4	7
111	Genetic aspects of bovine leukaemia virus infection and disease progression. Animal Genetics, 1989, 20, 337-339.	1.7	6
112	Monosaccharides define two immunodominant structures of chicken fetal antigen. Cell Differentiation, 1983, 12, 245-248.	0.4	4
113	Ethical, Legal, and Social Issues in the Earth BioGenome Project. SSRN Electronic Journal, 0, , .	0.4	3
114	Integrated Strategies and Methodologies for the Genetic Improvement of Animals. Journal of Dairy Science, 1990, 73, 2647-2656.	3.4	2
115	Current and potential applications of DNA probes in the clinical immunology laboratory. Clinical Immunology Newsletter, 1988, 9, 91-93.	0.1	0
116	Memories of Carl from an improbable friend. RNA Biology, 2014, 11, 273-278.	3.1	0
117	The National Academy of Sciences Prize in Food and Agriculture Science. Advances in Agronomy, 2019, 158, 311-319.	5.2	0