Hans H Cheng

List of Publications by Year
in descending order

122	5,788	76196	85405
papers	citations	40 h-index	71 g-index

125	125	125	4942
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A genetic variation map for chicken with 2.8 million single-nucleotide polymorphisms. Nature, 2004, 432, 717-722.	13.7	391
2	Coordinated international action to accelerate genome-to-phenome with FAANG, the Functional Annotation of Animal Genomes project. Genome Biology, 2015, 16, 57.	3.8	331
3	A high-density SNP-based linkage map of the chicken genome reveals sequence features correlated with recombination rate. Genome Research, 2009, 19, 510-519.	2.4	261
4	Genome-wide assessment of worldwide chicken SNP genetic diversity indicates significant absence of rare alleles in commercial breeds. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 17312-17317.	3.3	230
5	A New Chicken Genome Assembly Provides Insight into Avian Genome Structure. G3: Genes, Genomes, Genetics, 2017, 7, 109-117.	0.8	228
6	A Review of the Development of Chicken Lines to Resolve Genes Determining Resistance to Diseases. Poultry Science, 2000, 79, 1082-1093.	1.5	215
7	A physical map of the chicken genome. Nature, 2004, 432, 761-764.	13.7	200
8	The development and characterization of a 60K SNP chip for chicken. BMC Genomics, 2011, 12, 274.	1.2	185
9	Genetic Mapping of Quantitative Trait Loci Affecting Susceptibility to Marek's Disease Virus Induced Tumors in F2 Intercross Chickens. Genetics, 1998, 148, 349-360.	1.2	156
10	Development of a Genetic Map of the Chicken with Markers of High Utility. Poultry Science, 1995, 74, 1855-1874.	1.5	145
11	3D genomics across the tree of life reveals condensin II as a determinant of architecture type. Science, 2021, 372, 984-989.	6.0	132
12	High resolution mapping and identification of new quantitative trait loci (QTL) affecting susceptibility to Mareka€™s disease. Animal Genetics, 1999, 30, 126-135.	0.6	130
13	Genome-wide identification of tissue-specific long non-coding RNA in three farm animal species. BMC Genomics, 2018, 19, 684.	1.2	118
14	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
15	A strategy to identify positional candidate genes conferring Mareka€™s disease resistance by integrating DNA microarrays and genetic mapping. Animal Genetics, 2001, 32, 351-359.	0.6	115
16	Genetic Evaluation of a Demographic Bottleneck in the Greater Prairie Chicken. Conservation Biology, 1998, 12, 836-843.	2.4	114
17	A Comprehensive Microsatellite Linkage Map of the Chicken Genome. Genomics, 1998, 49, 265-274.	1.3	111
18	Functional annotations of three domestic animal genomes provide vital resources for comparative and agricultural research. Nature Communications, 2021, 12, 1821.	5.8	105

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19	Third Report on Chicken Genes and Chromosomes 2015. Cytogenetic and Genome Research, 2015, 145, 78-179.	0.6	97
20	Functional Genomics of the Chickenâ€"A Model Organism. Poultry Science, 2007, 86, 2059-2094.	1.5	95
21	Genetic Mapping in a Natural Population of Collared Flycatchers (Ficedula albicollis): Conserved Synteny but Gene Order Rearrangements on the Avian Z Chromosome. Genetics, 2006, 174, 377-386.	1.2	93
22	Growth hormone interacts with the Marek's disease virus SORF2 protein and is associated with disease resistance in chicken. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 9203-9208.	3.3	86
23	Microsatellite Markers for Genetic Mapping in the Chicken. Poultry Science, 1994, 73, 539-546.	1.5	82
24	Localization to chicken Chromosome 5 of a novel locus determining salmonellosis resistance. Immunogenetics, 2001, 53, 786-791.	1.2	79
25	Comparison of linkage disequilibrium and haplotype diversity on macro- and microchromosomes in chicken. BMC Genetics, 2009, 10, 86.	2.7	72
26	DNA Microsatellites Linked to Quantitative Trait Loci Affecting Antibody Response and Survival Rate in Meat-Type Chickens. Poultry Science, 2001, 80, 22-28.	1.5	69
27	<scp>GO</scp>â€<scp>FAANG</scp> meeting: a Gathering On Functional Annotation of <scp>An</scp>imal Genomes. Animal Genetics, 2016, 47, 528-533.	0.6	65
28	Identification of chicken lymphocyte antigen 6 complex, locus E (LY6E, alias SCA2) as a putative Mareká€™s disease resistance gene via a virus-host protein interaction screen. Cytogenetic and Genome Research, 2003, 102, 304-308.	0.6	61
29	Mapping quantitative trait loci associated with resistance to coccidiosis and growth. Poultry Science, 2003, 82, 9-16.	1.5	57
30	Large scale variation in DNA copy number in chicken breeds. BMC Genomics, 2013, 14, 398.	1.2	55
31	A MEQ-Deleted Marek's Disease Virus Cloned as a Bacterial Artificial Chromosome Is a Highly Efficacious Vaccine. Avian Diseases, 2010, 54, 862-869.	0.4	51
32	Direct evidence of host genome acquisition by the alphaherpesvirus Mareká€™s disease virus. Archives of Virology, 2006, 151, 537-549.	0.9	50
33	Mapping QTL affecting resistance to Marek's disease in an F6 advanced intercross population of commercial layer chickens. BMC Genomics, 2009, 10, 20.	1.2	46
34	Virulent Marek's disease virus generated from infectious bacterial artificial chromosome clones with complete DNA sequence and the implication of viral genetic homogeneity in pathogenesis. Journal of General Virology, 2011, 92, 598-607.	1.3	46
35	In ovo evaluation of FloraMaxÂ®-B11 on Mareká€™s disease HVT vaccine protective efficacy, hatchability, microbiota composition, morphometric analysis, and Salmonella enteritidis infection in broiler chickens. Poultry Science, 2017, 96, 2074-2082.	1.5	46
36	IDENTIFICATION OF QTL FOR PRODUCTION TRAITS IN CHICKENS. Animal Biotechnology, 2005, 16, 67-79.	0.7	45

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37	The cellular and molecular etiology of the craniofacial defects in the avian ciliopathic mutant talpid2. Development (Cambridge), 2014, 141, 3003-3012.	1.2	45
38	Microsatellite markers associated with resistance to Marek's disease in commercial layer chickens. Poultry Science, 2005, 84, 1678-1688.	1.5	43
39	Marek's disease virus up-regulates major histocompatibility complex class II cell surface expression in infected cells. Virology, 2007, 359, 212-219.	1.1	43
40	Integrated Genomic Approaches to Enhance Genetic Resistance in Chickens. Annual Review of Animal Biosciences, 2013, 1, 239-260.	3.6	43
41	A Comprehensive Screen for Chicken Proteins that Interact with Proteins Unique to Virulent Strains of Marek's Disease Virus. Poultry Science, 2004, 83, 1117-1123.	1.5	42
42	Application of AFLP markers to genome mapping in poultry. Animal Genetics, 1999, 30, 28-36.	0.6	41
43	Comparison and contrast of genes and biological pathways responding to Mareká€™s disease virus infection using allele-specific expression and differential expression in broiler and layer chickens. BMC Genomics, 2013, 14, 64.	1.2	40
44	Marek's disease virus influences the core gut microbiome of the chicken during the early and late phases of viral replication. FEMS Microbiology Ecology, 2014, 90, 300-312.	1.3	38
45	DNA marker technology: a revolution in animal genetics. Poultry Science, 1997, 76, 1108-1114.	1.5	37
46	Genome-wide identification of copy number variations between two chicken lines that differ in genetic resistance to Mareká€™s disease. BMC Genomics, 2015, 16, 843.	1.2	35
47	Genetic Evaluation of a Demographic Bottleneck in the Greater Prairie Chicken. Conservation Biology, 1998, 12, 836-843.	2.4	33
48	Fine mapping of QTL and genomic prediction using allele-specific expression SNPs demonstrates that the complex trait of genetic resistance to Mareká€™s disease is predominantly determined by transcriptional regulation. BMC Genomics, 2015, 16, 816.	1.2	33
49	Poultry Genome Sequences: Progress and Outstanding Challenges. Cytogenetic and Genome Research, 2011, 134, 19-26.	0.6	31
50	Review of the initial validation and characterization of a 3K chicken SNP array. World's Poultry Science Journal, 2008, 64, 219-226.	1.4	30
51	Mapping quantitative trait loci for binary traits using a heterogeneous residual variance model: an application to Marek's disease susceptibility in chickens. Genetica, 1998, 104, 171-178.	0.5	29
52	Down-regulation of promoter methylation level of CD4 gene after MDV infection in MD-susceptible chicken line. BMC Proceedings, 2011, 5, S7.	1.8	29
53	Comparative mapping of chicken anchor loci orthologous to genes on human chromosomes 1, 4 and 9. Animal Genetics, 2001, 32, 12-18.	0.6	28
54	Complete genomic sequence and an infectious BAC clone of feline herpesvirus-1 (FHV-1). Virology, 2010, 401, 215-227.	1.1	27

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55	Non-association between Rfp-Y major histocompatibility complex-like genes and susceptibility to Marekâ€™s disease virus-induced tumours in 63Ã— 72 F2 intercross chickens. Animal Genetics, 1997, 28, 331-337.	0.6	26
56	Chromosomal integration of an avian oncogenic herpesvirus reveals telomeric preferences and evidence for lymphoma clonality. Herpesviridae, 2010, 1, 5.	2.7	24
57	Integrated Analyses of Genome-Wide DNA Occupancy and Expression Profiling Identify Key Genes and Pathways Involved in Cellular Transformation by a Marek's Disease Virus Oncoprotein, Meq. Journal of Virology, 2013, 87, 9016-9029.	1.5	24
58	A class of Escherichia coli proteins controlled by the hflA locus. Journal of Molecular Biology, 1987, 196, 737-740.	2.0	23
59	Characterizing the Molecular Basis of Attenuation of Marek's Disease Virus via In Vitro Serial Passage Identifies De Novo Mutations in the Helicase-Primase Subunit Gene UL5 and Other Candidates Associated with Reduced Virulence. Journal of Virology, 2014, 88, 6232-6242.	1.5	23
60	Pathogen transmission from vaccinated hosts can cause dose-dependent reduction in virulence. PLoS Biology, 2020, 18, e3000619.	2.6	23
61	Transcriptional Profiles of Host-Pathogen Responses to Necrotic Enteritis and Differential Regulation of Immune Genes in Two Inbreed Chicken Lines Showing Disparate Disease Susceptibility. PLoS ONE, 2014, 9, e114960.	1.1	23
62	Differential expression of Toll-like receptor pathway genes in chicken embryo fibroblasts from chickens resistant and susceptible to Marek's disease. Poultry Science, 2014, 93, 550-555.	1.5	21
63	Molecular markers for the assessment of chicken biodiversity. World's Poultry Science Journal, 2007, 63, 33-45.	1.4	20
64	Genome-Wide Identification and Quantification of cis- and trans-Regulated Genes Responding to Marekâ€™s Disease Virus Infection via Analysis of Allele-Specific Expression. Frontiers in Genetics, 2012, 2, 113.	1.1	20
65	Mapping the chicken genome. Poultry Science, 1997, 76, 1101-1107.	1.5	19
66	Temporal Kinetics of Marek's Disease Herpesvirus: Integration Occurs Early after Infection in Both B and T Cells. Cytogenetic and Genome Research, 2014, 144, 142-154.	0.6	19
67	Darwinian genomics and diversity in the tree of life. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	19
68	Development and validation of a PCR-RFLP assay to evaluateTVBhaplotypes coding receptors for subgroup B and subgroup E avian leukosis viruses in White Leghorns. Avian Pathology, 2005, 34, 324-331.	0.8	18
69	The Chicken Gene Map. ILAR Journal, 1998, 39, 229-236.	1.8	17
70	Genome-wide identification of allele-specific expression (ASE) in response to Marekâ€™s disease virus infection using next generation sequencing. BMC Proceedings, 2011, 5, S14.	1.8	17
71	Chromosomal Mapping and Candidate Gene Discovery of Chicken Developmental Mutants and Genome-Wide Variation Analysis of MHC Congenics. Journal of Heredity, 2011, 102, 141-156.	1.0	17
72	Nuclear Factor kappa B is central to Marekâ€™s Disease herpesvirus induced neoplastic transformation of CD30 expressing lymphocytes in-vivo. BMC Systems Biology, 2012, 6, 123.	3.0	17

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73	Differences in CD8Î±Î± and cecal microbiome community during proliferation and late cytolytic phases of Marek's disease virus infection are associated with genetic resistance to Marek's disease. FEMS Microbiology Ecology, 2016, 92, fiw188.	1.3	17
74	Expression of Marek's Disease Virus Oncoprotein Meq During Infection in the Natural Host. Virology, 2017, 503, 103-113.	1.1	17
75	Mapping Chicken Genes Using Preferential Amplification of Specific Alleles. Microbial & Comparative Genomics, 1998, 3, 13-20.	0.6	16
76	Identification of Mareká€™s disease virus genes associated with virulence of US strains. Journal of General Virology, 2019, 100, 1132-1139.	1.3	16
77	Transcriptional Profiling of MEq-Dependent Genes in Mareká€™s Disease Resistant and Susceptible Inbred Chicken Lines. PLoS ONE, 2013, 8, e78171.	1.1	16
78	Mapping Functional Chicken Genes: An Alternative Approach. Poultry Science, 1996, 75, 642-647.	1.5	15
79	Allele-specific expression analysis reveals CD79B has a cis-acting regulatory element that responds to Marek's disease virus infection in chickens. Poultry Science, 2011, 90, 1206-1211.	1.5	15
80	Evidence for widespread epistatic interactions influencing Mareká€™s disease virus viremia levels in chicken. Cytogenetic and Genome Research, 2007, 117, 313-318.	0.6	13
81	Mareká€™s disease herpesvirus vaccines integrate into chicken host chromosomes yet lack a virus-host phenotype associated with oncogenic transformation. Vaccine, 2016, 34, 5554-5561.	1.7	13
82	In vitro characterization of felid herpesvirus 1 (FHV-1) mutants generated by recombineering in a recombinant BAC vector. Virus Research, 2016, 221, 15-22.	1.1	13
83	Genetic variation at the tumour virus B locus in commercial and laboratory chicken populations assessed by a medium-throughput or a high-throughput assay. Avian Pathology, 2007, 36, 283-291.	0.8	11
84	Female-Specific DNA Sequences in the Chicken Genome. Journal of Heredity, 2007, 98, 238-242.	1.0	11
85	Genetic assessment of inbred chicken lines indicates genomic signatures of resistance to Mareká€™s disease. Journal of Animal Science and Biotechnology, 2018, 9, 65.	2.1	9
86	Depletion of CD8Î±Î²+ T Cells in Chickens Demonstrates Their Involvement in Protective Immunity towards Mareká€™s Disease with Respect to Tumor Incidence and Vaccinal Protection. Vaccines, 2020, 8, 557.	2.1	9
87	Validation of Alternative Transcript Splicing in Chicken Lines that Differ in Genetic Resistance to Mareká€™s Disease. Animal Biotechnology, 2016, 27, 238-244.	0.7	8
88	Linkage mapping of chickenovoinhibitorandovomucoidgenes to chromosome 13. Animal Genetics, 2004, 35, 356-358.	0.6	7
89	Linkage mapping of four chicken calpain genes. Animal Science Journal, 2005, 76, 121-127.	0.6	7
90	Mareká€™s disease viruses lacking either R-LORF10 or LORF4 have altered virulence in chickens. Virus Genes, 2010, 40, 410-420.	0.7	6

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91	Towards a mechanistic understanding of the synergistic response induced by bivalent Mareká€™s disease vaccines to prevent lymphomas. Vaccine, 2019, 37, 6397-6404.	1.7	6
92	Development and mapping of microsatellite markers derived from chicken chromosome-specific libraries. Poultry Science, 2002, 81, 1644-1646.	1.5	5
93	Cloning and functional characterization of chicken stem cell antigen 2. Developmental and Comparative Immunology, 2010, 34, 360-368.	1.0	5
94	Addition of a UL5 helicase-primase subunit point mutation eliminates bursalâ€“thymic atrophy of Marek's disease virus âˆ†Meq recombinant virus but reduces vaccinal protection. Avian Pathology, 2015, 44, 254-258.	0.8	5
95	DNA cloning and sequence analysis of chicken AFLP. Animal Genetics, 2001, 32, 156-159.	0.6	4
96	Stability of Mareká€™s disease virus 132-bp repeats during serial in vitro passages. Archives of Virology, 2006, 151, 1431-1438.	0.9	4
97	Chicks and single-nucleotide polymorphisms: an entrÃ©e into identifying genes conferring disease resistance in chicken. Animal Production Science, 2012, 52, 151.	0.6	4
98	Visualization of Mareká€™s disease virus in vitro using enhanced green fluorescent protein fused with US10. Virus Genes, 2013, 47, 181-183.	0.7	4
99	Evaluation and Identification of Marek's Disease Virus BAC Clones as Standardized Reagents for Research. Avian Diseases, 2017, 61, 107-114.	0.4	4
100	Vaccination and Host Marek's Disease-Resistance Genotype Significantly Reduce Oncogenic <i>Gallid alphaherpesvirus 2</i> Telomere Integration in Host Birds. Cytogenetic and Genome Research, 2018, 156, 204-214.	0.6	4
101	Identification and Validation of Ikaros (IKZF1) as a Cancer Driver Gene for Mareká€™s Disease Virus-Induced Lymphomas. Microorganisms, 2022, 10, 401.	1.6	4
102	Mapping and genotypic analysis of the NK-lysin gene in chicken. Genetics Selection Evolution, 2014, 46, 43.	1.2	3
103	Prior genetic architecture impacting genomic regions under selection: An example using genomic selection in two poultry breeds. Livestock Science, 2015, 171, 1-11.	0.6	3
104	Cloning and expression of deoxyribonuclease II from chicken. Gene, 2006, 373, 44-51.	1.0	2
105	Quantitative evaluation of viral fitness due to a single nucleotide polymorphism in the Marek's disease virus UL41 gene via an in vitro competition assay. Journal of Virological Methods, 2008, 148, 125-131.	1.0	2
106	Mutations within ICP4 acquired during in vitro attenuation do not alter virulence of recombinant Marek's disease viruses in vivo. Virology Reports, 2015, 5, 10-18.	0.4	2
107	The Mut UL5-I682R Marek's Disease Virus with a Single Nucleotide Mutation Within the Helicase-Primase Subunit Gene not only Reduces Virulence but also Provides Partial Vaccinal Protection Against Marek's Disease. Avian Diseases, 2015, 59, 94-97.	0.4	2
108	Genome-wide characterization of copy number variations in the host genome in genetic resistance to Mareká€™s disease using next generation sequencing. BMC Genetics, 2020, 21, 77.	2.7	2

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109	Integrating Genomics to Understand the Mareká€™s Disease Virus â€“ Chicken Hostâ€“Pathogen Interaction. , 2008, , 115-126.		1
110	Mareká€™s Disease Virus Telomeric Integration Profiles of Neoplastic Host Tissues Reveal Unbiased Chromosomal Selection and Loss of Cellular Diversity during Tumorigenesis. Genes, 2021, 12, 1630.	1.0	1
111	The Threat of Marek's Disease Virus Is Expanding. Microbe Magazine, 2007, 2, 238-243.	0.4	1
112	Tissue Resources for the Functional Annotation of Animal Genomes. Frontiers in Genetics, 2021, 12, 666265.	1.1	1
113	Chickentubby-like protein 1(TULP1) gene maps to chromosome 26. Animal Genetics, 2004, 35, 165-166.	0.6	0
114	SNP identification and genetic mapping of chickenephrin type-B receptor 2gene to linkage group E54. Animal Genetics, 2004, 35, 162-163.	0.6	0
115	Characterizing in vivo stability and potential interactions of a UL5 helicase-primase mutation previously shown to reduce virulence and in vivo replication of Marek's disease virus. Virus Research, 2015, 203, 1-3.	1.1	0
116	Avian genomics. , 2022, , 7-16.		0
117	Pathogen transmission from vaccinated hosts can cause dose-dependent reduction in virulence. , 2020, 18, e3000619.		0
118	Pathogen transmission from vaccinated hosts can cause dose-dependent reduction in virulence. , 2020, 18, e3000619.		0
119	Pathogen transmission from vaccinated hosts can cause dose-dependent reduction in virulence. , 2020, 18, e3000619.		0
120	Pathogen transmission from vaccinated hosts can cause dose-dependent reduction in virulence. , 2020, 18, e3000619.		0
121	Pathogen transmission from vaccinated hosts can cause dose-dependent reduction in virulence. , 2020, 18, e3000619.		0
122	Pathogen transmission from vaccinated hosts can cause dose-dependent reduction in virulence. , 2020, 18, e3000619.		0