

# Hans H Cheng

## List of Publications by Year in descending order

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122  
papers

5,788  
citations

76196

40  
h-index

85405

71  
g-index

125  
all docs

125  
docs citations

125  
times ranked

4942  
citing authors

#	ARTICLE	IF	CITATIONS
1	Avian genomics. , 2022, , 7-16.		0
2	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
3	Identification and Validation of Ikaros (IKZF1) as a Cancer Driver Gene for Marek's Disease Virus-Induced Lymphomas. Microorganisms, 2022, 10, 401.	1.6	4
4	Functional annotations of three domestic animal genomes provide vital resources for comparative and agricultural research. Nature Communications, 2021, 12, 1821.	5.8	105
5	3D genomics across the tree of life reveals condensin II as a determinant of architecture type. Science, 2021, 372, 984-989.	6.0	132
6	Marek'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
7	Tissue Resources for the Functional Annotation of Animal Genomes. Frontiers in Genetics, 2021, 12, 666265.	1.1	1
8	Depletion of CD8 <sup>+</sup> T Cells in Chickens Demonstrates Their Involvement in Protective Immunity towards Marek's Disease with Respect to Tumor Incidence and Vaccinal Protection. Vaccines, 2020, 8, 557.	2.1	9
9	Genome-wide characterization of copy number variations in the host genome in genetic resistance to Marek's disease using next generation sequencing. BMC Genetics, 2020, 21, 77.	2.7	2
10	Pathogen transmission from vaccinated hosts can cause dose-dependent reduction in virulence. PLoS Biology, 2020, 18, e3000619.	2.6	23
11	Pathogen transmission from vaccinated hosts can cause dose-dependent reduction in virulence. , 2020, 18, e3000619.		0
12	Pathogen transmission from vaccinated hosts can cause dose-dependent reduction in virulence. , 2020, 18, e3000619.		0
13	Pathogen transmission from vaccinated hosts can cause dose-dependent reduction in virulence. , 2020, 18, e3000619.		0
14	Pathogen transmission from vaccinated hosts can cause dose-dependent reduction in virulence. , 2020, 18, e3000619.		0
15	Pathogen transmission from vaccinated hosts can cause dose-dependent reduction in virulence. , 2020, 18, e3000619.		0
16	Pathogen transmission from vaccinated hosts can cause dose-dependent reduction in virulence. , 2020, 18, e3000619.		0
17	Genome to Phenome: Improving Animal Health, Production, and Well-Being – A New USDA Blueprint for Animal Genome Research 2018–2027. Frontiers in Genetics, 2019, 10, 327.	1.1	118
18	Towards a mechanistic understanding of the synergistic response induced by bivalent Marek's disease vaccines to prevent lymphomas. Vaccine, 2019, 37, 6397-6404.	1.7	6

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19	Identification of Marek's disease virus genes associated with virulence of US strains. <i>Journal of General Virology</i> , 2019, 100, 1132-1139.	1.3	16
20	Vaccination and Host Marek's Disease-Resistance Genotype Significantly Reduce Oncogenic & Gallid alphaherpesvirus 2 Telomere Integration in Host Birds. <i>Cytogenetic and Genome Research</i> , 2018, 156, 204-214.	0.6	4
21	Genetic assessment of inbred chicken lines indicates genomic signatures of resistance to Marek's disease. <i>Journal of Animal Science and Biotechnology</i> , 2018, 9, 65.	2.1	9
22	Genome-wide identification of tissue-specific long non-coding RNA in three farm animal species. <i>BMC Genomics</i> , 2018, 19, 684.	1.2	118
23	Expression of Marek's Disease Virus Oncoprotein Meq During Infection in the Natural Host. <i>Virology</i> , 2017, 503, 103-113.	1.1	17
24	A New Chicken Genome Assembly Provides Insight into Avian Genome Structure. <i>G3: Genes, Genomes, Genetics</i> , 2017, 7, 109-117.	0.8	228
25	In ovo evaluation of FloraMax <sup>®</sup> -B11 on Marek's disease HVT vaccine protective efficacy, hatchability, microbiota composition, morphometric analysis, and <i>Salmonella enteritidis</i> infection in broiler chickens. <i>Poultry Science</i> , 2017, 96, 2074-2082.	1.5	46
26	Evaluation and Identification of Marek's Disease Virus BAC Clones as Standardized Reagents for Research. <i>Avian Diseases</i> , 2017, 61, 107-114.	0.4	4
27	Marek's disease herpesvirus vaccines integrate into chicken host chromosomes yet lack a virus-host phenotype associated with oncogenic transformation. <i>Vaccine</i> , 2016, 34, 5554-5561.	1.7	13
28	Differences in CD8 <sup>±</sup> and cecal microbiome community during proliferation and late cytolitic phases of Marek's disease virus infection are associated with genetic resistance to Marek's disease. <i>FEMS Microbiology Ecology</i> , 2016, 92, fiw188.	1.3	17
29	Validation of Alternative Transcript Splicing in Chicken Lines that Differ in Genetic Resistance to Marek's Disease. <i>Animal Biotechnology</i> , 2016, 27, 238-244.	0.7	8
30	GO meeting: a Gathering On Functional Annotation of Animal Genomes. <i>Animal Genetics</i> , 2016, 47, 528-533.	0.6	65
31	In vitro characterization of felid herpesvirus 1 (FHV-1) mutants generated by recombineering in a recombinant BAC vector. <i>Virus Research</i> , 2016, 221, 15-22.	1.1	13
32	Mutations within ICP4 acquired during in vitro attenuation do not alter virulence of recombinant Marek's disease viruses in vivo. <i>Virology Reports</i> , 2015, 5, 10-18.	0.4	2
33	Genome-wide identification of copy number variations between two chicken lines that differ in genetic resistance to Marek's disease. <i>BMC Genomics</i> , 2015, 16, 843.	1.2	35
34	Fine mapping of QTL and genomic prediction using allele-specific expression SNPs demonstrates that the complex trait of genetic resistance to Marek's disease is predominantly determined by transcriptional regulation. <i>BMC Genomics</i> , 2015, 16, 816.	1.2	33
35	Third Report on Chicken Genes and Chromosomes 2015. <i>Cytogenetic and Genome Research</i> , 2015, 145, 78-179.	0.6	97
36	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. <i>Virus Research</i> , 2015, 203, 1-3.	1.1	0

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37	Coordinated international action to accelerate genome-to-phenome with FAANG, the Functional Annotation of Animal Genomes project. <i>Genome Biology</i> , 2015, 16, 57.	3.8	331
38	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. <i>Avian Diseases</i> , 2015, 59, 94-97.	0.4	2
39	Addition of a UL5 helicase-primase subunit point mutation eliminates bursal thymic atrophy of Marek's disease virus Meq recombinant virus but reduces vaccinal protection. <i>Avian Pathology</i> , 2015, 44, 254-258.	0.8	5
40	Prior genetic architecture impacting genomic regions under selection: An example using genomic selection in two poultry breeds. <i>Livestock Science</i> , 2015, 171, 1-11.	0.6	3
41	The cellular and molecular etiology of the craniofacial defects in the avian ciliopathic mutant <i>talpid2</i> . <i>Development (Cambridge)</i> , 2014, 141, 3003-3012.	1.2	45
42	Temporal Kinetics of Marek's Disease Herpesvirus: Integration Occurs Early after Infection in Both B and T Cells. <i>Cytogenetic and Genome Research</i> , 2014, 144, 142-154.	0.6	19
43	Marek's disease virus influences the core gut microbiome of the chicken during the early and late phases of viral replication. <i>FEMS Microbiology Ecology</i> , 2014, 90, 300-312.	1.3	38
44	Mapping and genotypic analysis of the NK-lysin gene in chicken. <i>Genetics Selection Evolution</i> , 2014, 46, 43.	1.2	3
45	Characterizing the Molecular Basis of Attenuation of Marek's Disease Virus via <i>In Vitro</i> Serial Passage Identifies <i>De Novo</i> Mutations in the Helicase-Primase Subunit Gene UL5 and Other Candidates Associated with Reduced Virulence. <i>Journal of Virology</i> , 2014, 88, 6232-6242.	1.5	23
46	Differential expression of Toll-like receptor pathway genes in chicken embryo fibroblasts from chickens resistant and susceptible to Marek's disease. <i>Poultry Science</i> , 2014, 93, 550-555.	1.5	21
47	Transcriptional Profiles of Host-Pathogen Responses to Necrotic Enteritis and Differential Regulation of Immune Genes in Two Inbred Chicken Lines Showing Disparate Disease Susceptibility. <i>PLoS ONE</i> , 2014, 9, e114960.	1.1	23
48	Comparison and contrast of genes and biological pathways responding to Marek's disease virus infection using allele-specific expression and differential expression in broiler and layer chickens. <i>BMC Genomics</i> , 2013, 14, 64.	1.2	40
49	Visualization of Marek's disease virus in vitro using enhanced green fluorescent protein fused with US10. <i>Virus Genes</i> , 2013, 47, 181-183.	0.7	4
50	Large scale variation in DNA copy number in chicken breeds. <i>BMC Genomics</i> , 2013, 14, 398.	1.2	55
51	Integrated Genomic Approaches to Enhance Genetic Resistance in Chickens. <i>Annual Review of Animal Biosciences</i> , 2013, 1, 239-260.	3.6	43
52	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. <i>Journal of Virology</i> , 2013, 87, 9016-9029.	1.5	24
53	Transcriptional Profiling of MEq-Dependent Genes in Marek's Disease Resistant and Susceptible Inbred Chicken Lines. <i>PLoS ONE</i> , 2013, 8, e78171.	1.1	16
54	Chicks and single-nucleotide polymorphisms: an entrance into identifying genes conferring disease resistance in chicken. <i>Animal Production Science</i> , 2012, 52, 151.	0.6	4

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55	Nuclear Factor kappa B is central to Marek's Disease herpesvirus induced neoplastic transformation of CD30 expressing lymphocytes in-vivo. BMC Systems Biology, 2012, 6, 123.	3.0	17
56	Genome-Wide Identification and Quantification of cis- and trans-Regulated Genes Responding to Marek's Disease Virus Infection via Analysis of Allele-Specific Expression. Frontiers in Genetics, 2012, 2, 113.	1.1	20
57	Genome-wide identification of allele-specific expression (ASE) in response to Marek's disease virus infection using next generation sequencing. BMC Proceedings, 2011, 5, S14.	1.8	17
58	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
59	The development and characterization of a 60K SNP chip for chicken. BMC Genomics, 2011, 12, 274.	1.2	185
60	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
61	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
62	Poultry Genome Sequences: Progress and Outstanding Challenges. Cytogenetic and Genome Research, 2011, 134, 19-26.	0.6	31
63	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
64	Marek's disease viruses lacking either R-LORF10 or LORF4 have altered virulence in chickens. Virus Genes, 2010, 40, 410-420.	0.7	6
65	Complete genomic sequence and an infectious BAC clone of feline herpesvirus-1 (FHV-1). Virology, 2010, 401, 215-227.	1.1	27
66	Chromosomal integration of an avian oncogenic herpesvirus reveals telomeric preferences and evidence for lymphoma clonality. Herpesviridae, 2010, 1, 5.	2.7	24
67	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
68	Cloning and functional characterization of chicken stem cell antigen 2. Developmental and Comparative Immunology, 2010, 34, 360-368.	1.0	5
69	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
70	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
71	Comparison of linkage disequilibrium and haplotype diversity on macro- and microchromosomes in chicken. BMC Genetics, 2009, 10, 86.	2.7	72
72	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

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73	Genome-wide assessment of worldwide chicken SNP genetic diversity indicates significant absence of rare alleles in commercial breeds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 17312-17317.	3.3	230
74	Review of the initial validation and characterization of a 3K chicken SNP array. <i>World's Poultry Science Journal</i> , 2008, 64, 219-226.	1.4	30
75	Integrating Genomics to Understand the Marek's Disease Virus "Chicken Host" Pathogen Interaction. , 2008, , 115-126.		1
76	Genetic variation at the tumour virus B locus in commercial and laboratory chicken populations assessed by a medium-throughput or a high-throughput assay. <i>Avian Pathology</i> , 2007, 36, 283-291.	0.8	11
77	Molecular markers for the assessment of chicken biodiversity. <i>World's Poultry Science Journal</i> , 2007, 63, 33-45.	1.4	20
78	Female-Specific DNA Sequences in the Chicken Genome. <i>Journal of Heredity</i> , 2007, 98, 238-242.	1.0	11
79	Evidence for widespread epistatic interactions influencing Marek's disease virus viremia levels in chicken. <i>Cytogenetic and Genome Research</i> , 2007, 117, 313-318.	0.6	13
80	Functional Genomics of the Chicken "A Model Organism. <i>Poultry Science</i> , 2007, 86, 2059-2094.	1.5	95
81	Marek's disease virus up-regulates major histocompatibility complex class II cell surface expression in infected cells. <i>Virology</i> , 2007, 359, 212-219.	1.1	43
82	The Threat of Marek's Disease Virus Is Expanding. <i>Microbe Magazine</i> , 2007, 2, 238-243.	0.4	1
83	Cloning and expression of deoxyribonuclease II from chicken. <i>Gene</i> , 2006, 373, 44-51.	1.0	2
84	Direct evidence of host genome acquisition by the alphaherpesvirus Marek's disease virus. <i>Archives of Virology</i> , 2006, 151, 537-549.	0.9	50
85	Stability of Marek's disease virus 132-bp repeats during serial in vitro passages. <i>Archives of Virology</i> , 2006, 151, 1431-1438.	0.9	4
86	Genetic Mapping in a Natural Population of Collared Flycatchers ( <i>Ficedula albicollis</i> ): Conserved Synteny but Gene Order Rearrangements on the Avian Z Chromosome. <i>Genetics</i> , 2006, 174, 377-386.	1.2	93
87	Linkage mapping of four chicken calpain genes. <i>Animal Science Journal</i> , 2005, 76, 121-127.	0.6	7
88	Development and validation of a PCR-RFLP assay to evaluate TVB haplotypes coding receptors for subgroup B and subgroup E avian leukosis viruses in White Leghorns. <i>Avian Pathology</i> , 2005, 34, 324-331.	0.8	18
89	IDENTIFICATION OF QTL FOR PRODUCTION TRAITS IN CHICKENS. <i>Animal Biotechnology</i> , 2005, 16, 67-79.	0.7	45
90	Microsatellite markers associated with resistance to Marek's disease in commercial layer chickens. <i>Poultry Science</i> , 2005, 84, 1678-1688.	1.5	43

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91	A Comprehensive Screen for Chicken Proteins that Interact with Proteins Unique to Virulent Strains of Marek's Disease Virus. <i>Poultry Science</i> , 2004, 83, 1117-1123.	1.5	42
92	Chickentubby-like protein 1(TULP1) gene maps to chromosome 26. <i>Animal Genetics</i> , 2004, 35, 165-166.	0.6	0
93	SNP identification and genetic mapping of chickeneph rin type-B receptor 2gene to linkage group E54. <i>Animal Genetics</i> , 2004, 35, 162-163.	0.6	0
94	Linkage mapping of chickenovoinhibitorandovomucoidgenes to chromosome 13. <i>Animal Genetics</i> , 2004, 35, 356-358.	0.6	7
95	A physical map of the chicken genome. <i>Nature</i> , 2004, 432, 761-764.	13.7	200
96	A genetic variation map for chicken with 2.8 million single-nucleotide polymorphisms. <i>Nature</i> , 2004, 432, 717-722.	13.7	391
97	Identification of chicken lymphocyte antigen 6 complex, locus E (<i>LY6E</i>, alias <i>SCA2</i>) as a putative Marekâ€™s disease resistance gene via a virus-host protein interaction screen. <i>Cytogenetic and Genome Research</i> , 2003, 102, 304-308.	0.6	61
98	Mapping quantitative trait loci associated with resistance to coccidiosis and growth. <i>Poultry Science</i> , 2003, 82, 9-16.	1.5	57
99	Development and mapping of microsatellite markers derived from chicken chromosome-specific libraries. <i>Poultry Science</i> , 2002, 81, 1644-1646.	1.5	5
100	Localization to chicken Chromosome 5 of a novel locus determining salmonellosis resistance. <i>Immunogenetics</i> , 2001, 53, 786-791.	1.2	79
101	Comparative mapping of chicken anchor loci orthologous to genes on human chromosomes 1, 4 and 9. <i>Animal Genetics</i> , 2001, 32, 12-18.	0.6	28
102	DNA cloning and sequence analysis of chicken AFLP. <i>Animal Genetics</i> , 2001, 32, 156-159.	0.6	4
103	A strategy to identify positional candidate genes conferring Marekâ€™s disease resistance by integrating DNA microarrays and genetic mapping. <i>Animal Genetics</i> , 2001, 32, 351-359.	0.6	115
104	Growth hormone interacts with the Marek's disease virus SORF2 protein and is associated with disease resistance in chicken. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 9203-9208.	3.3	86
105	DNA Microsatellites Linked to Quantitative Trait Loci Affecting Antibody Response and Survival Rate in Meat-Type Chickens. <i>Poultry Science</i> , 2001, 80, 22-28.	1.5	69
106	A Review of the Development of Chicken Lines to Resolve Genes Determining Resistance to Diseases. <i>Poultry Science</i> , 2000, 79, 1082-1093.	1.5	215
107	Application of AFLP markers to genome mapping in poultry. <i>Animal Genetics</i> , 1999, 30, 28-36.	0.6	41
108	High resolution mapping and identification of new quantitative trait loci (QTL) affecting susceptibility to Marekâ€™s disease. <i>Animal Genetics</i> , 1999, 30, 126-135.	0.6	130

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109	Mapping quantitative trait loci for binary traits using a heterogeneous residual variance model: an application to Marek's disease susceptibility in chickens. <i>Genetica</i> , 1998, 104, 171-178.	0.5	29
110	A Comprehensive Microsatellite Linkage Map of the Chicken Genome. <i>Genomics</i> , 1998, 49, 265-274.	1.3	111
111	The Chicken Gene Map. <i>ILAR Journal</i> , 1998, 39, 229-236.	1.8	17
112	Mapping Chicken Genes Using Preferential Amplification of Specific Alleles. <i>Microbial &amp; Comparative Genomics</i> , 1998, 3, 13-20.	0.6	16
113	Genetic Evaluation of a Demographic Bottleneck in the Greater Prairie Chicken. <i>Conservation Biology</i> , 1998, 12, 836-843.	2.4	33
114	Genetic Evaluation of a Demographic Bottleneck in the Greater Prairie Chicken. <i>Conservation Biology</i> , 1998, 12, 836-843.	2.4	114
115	Genetic Mapping of Quantitative Trait Loci Affecting Susceptibility to Marek's Disease Virus Induced Tumors in F2 Intercross Chickens. <i>Genetics</i> , 1998, 148, 349-360.	1.2	156
116	DNA marker technology: a revolution in animal genetics. <i>Poultry Science</i> , 1997, 76, 1108-1114.	1.5	37
117	Mapping the chicken genome. <i>Poultry Science</i> , 1997, 76, 1101-1107.	1.5	19
118	Non-association between Rfp-Y major histocompatibility complex-like genes and susceptibility to Marek's disease virus-induced tumours in 63-72 F2 intercross chickens. <i>Animal Genetics</i> , 1997, 28, 331-337.	0.6	26
119	Mapping Functional Chicken Genes: An Alternative Approach. <i>Poultry Science</i> , 1996, 75, 642-647.	1.5	15
120	Development of a Genetic Map of the Chicken with Markers of High Utility. <i>Poultry Science</i> , 1995, 74, 1855-1874.	1.5	145
121	Microsatellite Markers for Genetic Mapping in the Chicken. <i>Poultry Science</i> , 1994, 73, 539-546.	1.5	82
122	A class of Escherichia coli proteins controlled by the hflA locus. <i>Journal of Molecular Biology</i> , 1987, 196, 737-740.	2.0	23