Jae Y Han

List of Publications by Year
in descending order

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120 papers	2,873 citations	201674 27 h-index	214800 47 g-index
124 all docs	124 docs citations	124 times ranked	1698 citing authors

#	Article	IF	Citations
1	piggyBac transposition into primordial germ cells is an efficient tool for transgenesis in chickens. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 9337-9341.	7.1	154
2	Enhancing the oral bioavailability of curcumin using solid lipid nanoparticles. Food Chemistry, 2020, 302, 125328.	8.2	148
3	Targeted gene knockout in chickens mediated by TALENs. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12716-12721.	7.1	135
4	Derivation and characterization of pluripotent embryonic germ cells in chicken. Molecular Reproduction and Development, 2000, 56, 475-482.	2.0	126
5	Basic Fibroblast Growth Factor Activates MEK/ERK Cell Signaling Pathway and Stimulates the Proliferation of Chicken Primordial Germ Cells. PLoS ONE, 2010, 5, e12968.	2.5	102
6	Germ cells and transgenesis in chickens. Comparative Immunology, Microbiology and Infectious Diseases, 2009, 32, 61-80.	1.6	99
7	PRODUCTION OF GERMLINE CHIMERIC CHICKENS BY TRANSFER OF CULTURED PRIMORDIAL GERM CELLS. Cell Biology International, 1997, 21, 495-499.	3.0	91
8	Reproduction of Wild Birds via Interspecies Germ Cell Transplantation1. Biology of Reproduction, 2008, 79, 931-937.	2.7	73
9	Production of germline chimeras by transfer of chicken gonadal primordial germ cells maintained in vitro for an extended period. Theriogenology, 2002, 58, 1531-1539.	2.1	72
10	Generation of transgenic quail through germ cellâ€mediated germline transmission. FASEB Journal, 2008, 22, 2435-2444.	0.5	69
11	MicroRNA-mediated posttranscriptional regulation is required for maintaining undifferentiated properties of blastoderm and primordial germ cells in chickens. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 10426-10431.	7.1	69
12	Birth of germline chimeras by transfer of chicken embryonic germ (EG) cells into recipient embryos. Molecular Reproduction and Development, 2003, 65, 389-395.	2.0	66
13	Development of Novel Markers for the Characterization of Chicken Primordial Germ Cells. Stem Cells, 2005, 23, 689-698.	3.2	63
14	DAZLExpression Explains Origin and Central Formation of Primordial Germ Cells in Chickens. Stem Cells and Development, 2016, 25, 68-79.	2.1	57
15	A Testis-Mediated Germline Chimera Production Based on Transfer of Chicken Testicular Cells Directly into Heterologous Testes1. Biology of Reproduction, 2006, 75, 380-386.	2.7	54
16	Deposition of bioactive human epidermal growth factor in the egg white of transgenic hens using an oviductâ€specific minisynthetic promoter. FASEB Journal, 2015, 29, 2386-2396.	0.5	47
17	Enriched gonadal migration of donor-derived gonadal primordial germ cells by immunomagnetic cell sorting in birds. Molecular Reproduction and Development, 2004, 68, 81-87.	2.0	45
18	Tissue expression and antibacterial activity of host defense peptides in chicken. BMC Veterinary Research, 2016, 12, 231.	1.9	45

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19	Production of Biofunctional Recombinant Human Interleukin 1 Receptor Antagonist (rhIL1RN) from Transgenic Quail Egg White1. Biology of Reproduction, 2010, 82, 1057-1064.	2.7	43
20	Expression Patterns and miRNA Regulation of DNA Methyltransferases in Chicken Primordial Germ Cells. PLoS ONE, 2011, 6, e19524.	2.5	42
21	Production of quail (Coturnix japonica) germline chimeras by transfer of gonadal primordial germ cells into recipient embryos. Theriogenology, 2005, 63, 774-782.	2.1	39
22	Spatial and temporal action of chicken primordial germ cells during initial migration. Reproduction, 2015, 149, 179-187.	2.6	36
23	Wnt/Î²-catenin signaling pathway activation is required for proliferation of chicken primordial germ cells in vitro. Scientific Reports, 2016, 6, 34510.	3.3	36
24	Targeted gene insertion into Z chromosome of chicken primordial germ cells for avian sexing model development. FASEB Journal, 2019, 33, 8519-8529.	0.5	33
25	Precise gene editing of chicken Na+/H+ exchange type 1 (chNHE1) confers resistance to avian leukosis virus subgroup J (ALV-J). Developmental and Comparative Immunology, 2017, 77, 340-349.	2.3	32
26	Loss of Fat with Increased Adipose Triglyceride Lipaseâ€Mediated Lipolysis in Adipose Tissue During Laying Stages in Quail. Lipids, 2013, 48, 13-21.	1.7	30
27	Targeted Knockout of MDA5 and TLR3 in the DF-1 Chicken Fibroblast Cell Line Impairs Innate Immune Response Against RNA Ligands. Frontiers in Immunology, 2020, 11, 678.	4.8	30
28	Small non-coding RNA profiling and the role of piRNA pathway genes in the protection of chicken primordial germ cells. BMC Genomics, 2014, 15, 757.	2.8	29
29	Production of quail (Coturnix japonica) germline chimeras derived from in vitroâ€cultured gonadal primordial germ cells. Molecular Reproduction and Development, 2008, 75, 274-281.	2.0	28
30	Cleavage Events and Sperm Dynamics in Chick Intrauterine Embryos. PLoS ONE, 2013, 8, e80631.	2.5	28
31	Primordial germ cell-mediated transgenesis and genome editing in birds. Journal of Animal Science and Biotechnology, 2018, 9, 19.	5.3	27
32	Gene expression profiling of chicken primordial germ cell ESTs. BMC Genomics, 2006, 7, 220.	2.8	26
33	CpG methylation modulates tissue-specific expression of a transgene in chickens. Theriogenology, 2010, 74, 805-816.e1.	2.1	26
34	Regulation of Glucose Phosphate Isomerase by the 3â€²UTR-Specific miRNAs miR-302b and miR-17-5p in Chicken Primordial Germ Cells1. Biology of Reproduction, 2013, 89, 33.	2.7	26
35	Identification and characterization of primordial germ cells in a vocal learning Neoaves species, the zebra finch. FASEB Journal, 2019, 33, 13825-13836.	0.5	26
36	Host-Specific Restriction of Avian Influenza Virus Caused by Differential Dynamics of ANP32 Family Members. Journal of Infectious Diseases, 2020, 221, 71-80.	4.0	25

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37	Siteâ€specific recombination in the chicken genome using Flipase recombinaseâ€mediated cassette exchange. FASEB Journal, 2016, 30, 555-563.	0.5	24
38	Cellular analysis of cleavage-stage chick embryos reveals hidden conservation in vertebrate early development. Development (Cambridge), 2015, 142, 1279-86.	2.5	22
39	The reversible developmental unipotency of germ cells in chicken. Reproduction, 2010, 139, 113-119.	2.6	21
40	Strategies to enable the adoption of animal biotechnology to sustainably improve global food safety and security. Transgenic Research, 2016, 25, 575-595.	2.4	20
41	Zygotic gene activation in the chicken occurs in two waves, the first involving only maternally derived genes. ELife, 2018, 7, .	6.0	20
42	Inhibition of Lipolysis in the Novel Transgenic Quail Model Overexpressing G0/G1 Switch Gene 2 in the Adipose Tissue during Feed Restriction. PLoS ONE, 2014, 9, e100905.	2.5	19
43	The transcriptome of early chicken embryo reveal signaling pathways governing rapid asymmetric cellularization and lineage segregation. Development (Cambridge), 2018, 145, .	2.5	19
44	Testis-Specific Novel Transcripts in Chicken: In Situ Localization and Expression Pattern Profiling During Sexual Development1. Biology of Reproduction, 2008, 79, 413-420.	2.7	18
45	The transgenic chicken derived anti-CD20 monoclonal antibodies exhibits greater anti-cancer therapeutic potential with enhanced Fc effector functions. Biomaterials, 2018, 167, 58-68.	11.4	18
46	Hormonal regulation of beta-catenin during development of the avian oviduct and its expression in epithelial cell-derived ovarian carcinogenesis. Molecular and Cellular Endocrinology, 2014, 382, 46-54.	3.2	17
47	The first whole transcriptomic exploration of pre-oviposited early chicken embryos using single and bulked embryonic RNA-sequencing. GigaScience, 2018, 7, 1-9.	6.4	17
48	Precise Genome Editing in Poultry and Its Application to Industries. Genes, 2020, 11, 1182.	2.4	17
49	Beneficial effect on rapid skin wound healing through carboxylic acid-treated chicken eggshell membrane. Materials Science and Engineering C, 2021, 128, 112350.	7.3	17
50	Germline Modification and Engineering in Avian Species. Molecules and Cells, 2015, 38, 743-749.	2.6	17
51	Germline-competent stem cell in avian species and its application. Asian Journal of Andrology, 2015, 17, 421.	1.6	17
52	Establishment of an in vitro culture system for chicken preblastodermal cells. Molecular Reproduction and Development, 2006, 73, 452-461.	2.0	16
53	Gene Expression and DNA Methylation Status of Chicken Primordial Germ Cells. Molecular Biotechnology, 2013, 54, 177-186.	2.4	16
54	Acquisition of resistance to avian leukosis virus subgroup B through mutations on tvb cysteine-rich domains in DF-1 chicken fibroblasts. Veterinary Research, 2017, 48, 48.	3.0	16

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55	DMRT1 gene disruption alone induces incomplete gonad feminization in chicken. FASEB Journal, 2021, 35, e21876.	0.5	16
56	Molecular cloning and comparative analysis of immunoglobulin heavy chain genes from Phasianus colchicus, Meleagris gallopavo, and Coturnix japonica. Veterinary Immunology and Immunopathology, 2010, 136, 248-256.	1.2	15
57	The dynamic development of germ cells during chicken embryogenesis. Poultry Science, 2018, 97, 650-657.	3.4	15
58	Role of Epigenetic Regulation by the REST/CoREST/HDAC Corepressor Complex of ModerateNANOGExpression in Chicken Primordial Germ Cells. Stem Cells and Development, 2018, 27, 1215-1225.	2.1	14
59	Proteome analysis of chicken embryonic gonads: Identification of major proteins from cultured gonadal primordial germ cells. Molecular Reproduction and Development, 2005, 72, 521-529.	2.0	13
60	The avian-specific small heat shock protein HSP25 is a constitutive protector against environmental stresses during blastoderm dormancy. Scientific Reports, 2016, 6, 36704.	3.3	13
61	Dissecting chicken germ cell dynamics by combining a germ cell tracing transgenic chicken model with single-cell RNA sequencing. Computational and Structural Biotechnology Journal, 2022, 20, 1654-1669.	4.1	13
62	Generation and Characterization of Recombinant ScFv Antibodies DetectingEimeria acervulinaSurface Antigens. Hybridoma, 2001, 20, 175-181.	0.6	12
63	Identification of breed-specific DNA polymorphisms for a simple and unambiguous screening system in germline chimeric chickens. Journal of Experimental Zoology, 2007, 307A, 241-248.	1.2	12
64	Selective decrease of chick embryonic primordial germ cells in vivo and in vitro by soft X-ray irradiation. Animal Reproduction Science, 2006, 95, 67-74.	1.5	11
65	Identification and gene expression profiling of the Pum1 and Pum2 members of the Pumilio family in the chicken. Molecular Reproduction and Development, 2008, 75, 184-190.	2.0	11
66	Comprehensive Identification of Sexual Dimorphism-Associated Differentially Expressed Genes in Two-Way Factorial Designed RNA-Seq Data on Japanese Quail (Coturnix coturnix japonica). PLoS ONE, 2015, 10, e0139324.	2.5	11
67	Overexpression of G0/G1 Switch Gene 2 in Adipose Tissue of Transgenic Quail Inhibits Lipolysis Associated with Egg Laying. International Journal of Molecular Sciences, 2016, 17, 384.	4.1	11
68	Size-dependent isolation of primordial germ cells from avian species. Molecular Reproduction and Development, 2017, 84, 508-516.	2.0	11
69	Isolation, Characterization, and In Vitro Culturing of Spermatogonial Stem Cells in Japanese Quail (Coturnix japonica). Stem Cells and Development, 2017, 26, 60-70.	2.1	11
70	Morphological defects of sperm and their association with motility, fertility, and hatchability in four Korean native chicken breeds. Asian-Australasian Journal of Animal Sciences, 2018, 31, 1160-1168.	2.4	11
71	Zygotic genome activation in the chicken: a comparative review. Cellular and Molecular Life Sciences, 2020, 77, 1879-1891.	5.4	11
72	Highly elevated base excision repair pathway in primordial germ cells causes low base editing activity in chickens. FASEB Journal, 2020, 34, 15907-15921.	0.5	11

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73	Expression and regulation of avian beta-defensin 8 protein in immune tissues and cell lines of chickens. Asian-Australasian Journal of Animal Sciences, 2018, 31, 1516-1524.	2.4	11
74	Gamma-irradiation depletes endogenous germ cells and increases donor cell distribution in chimeric chickens. In Vitro Cellular and Developmental Biology - Animal, 2010, 46, 828-833.	1.5	10
75	Genome Modification Technologies and Their Applications in Avian Species. International Journal of Molecular Sciences, 2017, 18, 2245.	4.1	10
76	Transcriptional and translational dynamics during maternalâ€toâ€zygotic transition in early chicken development. FASEB Journal, 2018, 32, 2004-2011.	0.5	10
77	The distribution of neuron-specific gene family member 1 in brain and germ cells: Implications for the regulation of germ-line development by brain. Developmental Dynamics, 2011, 240, 850-861.	1.8	9
78	Acquisition of pluripotency in the chick embryo occurs during intrauterine embryonic development via a unique transcriptional network. Journal of Animal Science and Biotechnology, 2018, 9, 31.	5.3	9
79	Sequential disruption of ALV host receptor genes reveals no sharing of receptors between ALV subgroups A, B, and J. Journal of Animal Science and Biotechnology, 2019, 10, 23.	5.3	9
80	Avian blastoderm dormancy arrests cells in G 2 and suppresses apoptosis. FASEB Journal, 2017, 31, 3240-3250.	0.5	8
81	Isolation and Characterization of Chicken Primordial Germ Cells and Their Application in Transgenesis. Methods in Molecular Biology, 2017, 1650, 229-242.	0.9	8
82	SIMPLE SEPARATION OF CHICKEN GONADAL PRIMORDIAL GERM CELLS WITH AND WITHOUT FOREIGN GENES. Cell Biology International, 2002, 26, 647-651.	3.0	7
83	Avian Biotechnology: Insights from Germ Cell-mediated Transgenic Systems. Journal of Poultry Science, 2010, 47, 197-207.	1.6	7
84	Asp149 and Asp152 in chicken and human ANP32A play an essential role in the interaction with influenza viral polymerase. FASEB Journal, 2021, 35, e21630.	0.5	7
85	Efficient gene transfer into zebra finch germline-competent stem cells using an adenoviral vector system. Scientific Reports, 2021, 11, 14746.	3.3	7
86	Production of germline chimeric quails following spermatogonial cell transplantation in busulfan-treated testis. Asian Journal of Andrology, 2018, 20, 414.	1.6	7
87	Molecular cloning and characterization of the germ cellâ€related nuclear orphan receptor in chickens. Molecular Reproduction and Development, 2010, 77, 273-284.	2.0	6
88	Molecular and biological aspects of early germ cell development in interspecies hybrids between chickens and pheasants. Theriogenology, 2011, 75, 696-706.	2.1	6
89	Reactivation of Transgene Expression by Alleviating CpG Methylation of the Rous sarcoma virus Promoter in Transgenic Quail Cells. Molecular Biotechnology, 2011, 49, 222-228.	2.4	6
90	A novel Fâ€box domain containing cyclin F like gene is required for maintaining the genome stability and survival of chicken primordial germ cells. FASEB Journal, 2020, 34, 1001-1017.	0.5	6

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91	Whole-Transcriptome Sequencing-Based Analysis of DAZL and Its Interacting Genes during Germ Cells Specification and Zygotic Genome Activation in Chickens. International Journal of Molecular Sciences, 2020, 21, 8170.	4.1	6
92	Differential transcriptional regulation of the NANOG gene in chicken primordial germ cells and embryonic stem cells. Journal of Animal Science and Biotechnology, 2021, 12, 40.	5.3	6
93	In vivo enrichment of busulfan-resistant germ cells for efficient production of transgenic avian models. Scientific Reports, 2021, 11, 9127.	3.3	6
94	Derivation and characterization of pluripotent embryonic germ cells in chicken. Molecular Reproduction and Development, 2000, 56, 475-482.	2.0	6
95	Single-Cell RNA Sequencing Revealed the Heterogeneity of Gonadal Primordial Germ Cells in Zebra Finch (Taeniopygia guttata). Frontiers in Cell and Developmental Biology, 2021, 9, 791335.	3.7	6
96	Characterization of recombinant scFv antibody reactive with an apical antigen of Eimeria acervulina. Biotechnology Letters, 2001, 23, 949-955.	2.2	5
97	Fertilisation of cryopreserved sperm and unfertilised quail ovum by intracytoplasmic sperm injection. Reproduction, Fertility and Development, 2016, 28, 1974.	0.4	5
98	Chicken NANOG selfâ€associates via a novel foldingâ€uponâ€binding mechanism. FASEB Journal, 2018, 32, 2563-2573.	0.5	5
99	Production of quail (Coturnix japonica) germline chimeras by transfer of Ficoll-enriched spermatogonial stem cells. Theriogenology, 2020, 154, 223-231.	2.1	5
100	Establishment of a genetically engineered chicken DF-1 cell line for efficient amplification of influenza viruses in the absence of trypsin. BMC Biotechnology, 2021, 21, 2.	3.3	5
101	Genome Editing Mediated by Primordial Germ Cell in Chicken. Methods in Molecular Biology, 2017, 1630, 153-163.	0.9	5
102	Single-cell RNA sequencing of mitotic-arrested prospermatogonia with DAZL::GFP chickens and revealing unique epigenetic reprogramming of chickens. Journal of Animal Science and Biotechnology, 2022, 13, .	5.3	5
103	Production of Egg Yolk Antibodies Specific to House Dust Mite Proteins. Yonsei Medical Journal, 2014, 55, 999.	2.2	4
104	Regulatory elements and transcriptional control of chicken vasa homologue (CVH) promoter in chicken primordial germ cells. Journal of Animal Science and Biotechnology, 2017, 8, 6.	5.3	4
105	Production of Interspecific Germline Chimeras via Embryo Replacement1. Biology of Reproduction, 2015, 93, 36.	2.7	3
106	Expression of transcription factors during area pellucida formation in intrauterine chicken embryos. International Journal of Developmental Biology, 2018, 62, 341-345.	0.6	3
107	In vitro estimation of metal-induced disturbance in chicken gut-oviduct chemokine circuit. Molecular and Cellular Toxicology, 2019, 15, 443-452.	1.7	3
108	Chicken blastoderms and primordial germ cells possess a higher expression of DNA repair genes and lower expression of apoptosis genes to preserve their genome stability. Scientific Reports, 2022, 12, 49.	3.3	3

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109	Genotoxicity studies on HM10760A, recombinant human erythropoietin conjugated to globin fragment. Drug and Chemical Toxicology, 2010, 33, 152-159.	2.3	2
110	Comprehensive analysis on the homology, interaction, and miRNA regulators of human deleted in azoospermia proteins: updated evolutionary relationships with primates. Genes and Genomics, 2017, 39, 1335-1351.	1.4	2
111	Transgenesis and Genome Editing in Poultry. , 2018, , .		2
112	Identification and expression analysis of alpha tocopherol transfer protein in chickens fed diets containing different concentrations of alpha-tocopherol. Research in Veterinary Science, 2019, 123, 99-110.	1.9	2
113	Production of germline chimeric quails by transplantation of cryopreserved testicular cells into developing embryos. Theriogenology, 2020, 156, 189-195.	2.1	2
114	Amplification of immunity by engineering chicken MDA5 combined with the C terminal domain (CTD) of RIG-I. Applied Microbiology and Biotechnology, 2022, 106, 1599-1613.	3.6	2
115	Increased reactivity of cultured chicken blastodermal cells to anti-stage-specific embryonic antigen-1 antibody after exposure to bone morphogenetic proteins. Theriogenology, 2006, 65, 658-668.	2.1	1
116	Generation and characterization of genome-modified chondrocyte-like cells from the zebra finch cell line immortalized by c-MYC expression. Frontiers in Zoology, 2022, 19, .	2.0	1
117	Identification of the Major Proteins Produced by Cultured Germline Stem Cells in Chicken. Journal of Andrology, 2009, 30, 690-702.	2.0	0
118	Germ Cell Transplantation in Avian Species. Methods in Molecular Biology, 2019, 1920, 317-326.	0.9	0
119	Chicken FMRP Translational Regulator 1 (FMR1) Promotes Early Avian Influenza Virus Transcription without Affecting Viral Progeny Production in DF1 Cells. Korean Journal of Poultry Science, 2021, 48, 81-90.	0.3	0
120	Cellular Dynamics after Injection of Mesoderm-Derived Human Embryonic Kidney 293 Cells and Fibroblasts into Developing Chick Embryos. Journal of Cancer Prevention, 2014, 19, 68-73.	2.0	0