

David M Irwin

List of Publications by Year in descending order

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235
papers

9,199
citations

61857

43
h-index

53109

85
g-index

242
all docs

242
docs citations

242
times ranked

11163
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of the cytochrome b gene of mammals. <i>Journal of Molecular Evolution</i> , 1991, 32, 128-144.	0.8	2,029
2	The genomics of selection in dogs and the parallel evolution between dogs and humans. <i>Nature Communications</i> , 2013, 4, 1860.	5.8	275
3	Out of southern East Asia: the natural history of domestic dogs across the world. <i>Cell Research</i> , 2016, 26, 21-33.	5.7	271
4	Adaptive evolution of energy metabolism genes and the origin of flight in bats. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 8666-8671.	3.3	239
5	Draft genome sequence of the Tibetan antelope. <i>Nature Communications</i> , 2013, 4, 1858.	5.8	229
6	Genomic Analyses Reveal Potential Independent Adaptation to High Altitude in Tibetan Chickens. <i>Molecular Biology and Evolution</i> , 2015, 32, 1880-1889.	3.5	193
7	Whole-genome sequence of the Tibetan frog <i>Nanorana parkeri</i> and the comparative evolution of tetrapod genomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E1257-62.	3.3	159
8	De Novo Origin of Human Protein-Coding Genes. <i>PLoS Genetics</i> , 2011, 7, e1002379.	1.5	153
9	Cytochrome b gene of marine mammals: Phylogeny and evolution. <i>Journal of Mammalian Evolution</i> , 1994, 2, 37-55.	1.0	148
10	Population Variation Revealed High-Altitude Adaptation of Tibetan Mastiffs. <i>Molecular Biology and Evolution</i> , 2014, 31, 1200-1205.	3.5	130
11	Genome-Wide Identification of Long Intergenic Noncoding RNA Genes and Their Potential Association with Domestication in Pigs. <i>Genome Biology and Evolution</i> , 2014, 6, 1387-1392.	1.1	121
12	Genomic analysis of snub-nosed monkeys (<i>Rhinopithecus</i>) identifies genes and processes related to high-altitude adaptation. <i>Nature Genetics</i> , 2016, 48, 947-952.	9.4	109
13	CHIP promotes Runx2 degradation and negatively regulates osteoblast differentiation. <i>Journal of Cell Biology</i> , 2008, 181, 959-972.	2.3	104
14	The Wnt Signaling Pathway Effector TCF7L2 Controls Gut and Brain Proglucagon Gene Expression and Glucose Homeostasis. <i>Diabetes</i> , 2013, 62, 789-800.	0.3	98
15	Domestication Genomics: Evidence from Animals. <i>Annual Review of Animal Biosciences</i> , 2014, 2, 65-84.	3.6	98
16	Glucagon-like peptide 1 increases insulin sensitivity in depancreatized dogs. <i>Diabetes</i> , 1999, 48, 1045-1053.	0.3	97
17	Molecular Evolution of Vertebrate Goose-Type Lysozyme Genes. <i>Journal of Molecular Evolution</i> , 2003, 56, 234-242.	0.8	94
18	Human genes encoding prothrombin and ceruloplasmin map to 11p11?q12 and 3q21?24, respectively. <i>Somatic Cell and Molecular Genetics</i> , 1987, 13, 285-292.	0.7	88

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19	Stepwise loss of motilin and its specific receptor genes in rodents. <i>Journal of Molecular Endocrinology</i> , 2010, 44, 37-44.	1.1	86
20	Molecular evolution of the keratin associated protein gene family in mammals, role in the evolution of mammalian hair. <i>BMC Evolutionary Biology</i> , 2008, 8, 241.	3.2	85
21	Evaluating the Roles of Energetic Functional Constraints on Teleost Mitochondrial-Encoded Protein Evolution. <i>Molecular Biology and Evolution</i> , 2011, 28, 39-44.	3.5	84
22	Molecular evolution of proglucagon. <i>Regulatory Peptides</i> , 2001, 98, 1-12.	1.9	83
23	Stromal vascular fraction promotes migration of fibroblasts and angiogenesis through regulation of extracellular matrix in the skin wound healing process. <i>Stem Cell Research and Therapy</i> , 2019, 10, 302.	2.4	83
24	Whole genomes and transcriptomes reveal adaptation and domestication of pistachio. <i>Genome Biology</i> , 2019, 20, 79.	3.8	81
25	Stomach lysozyme gene of the langur monkey: Tests for convergence and positive selection. <i>Journal of Molecular Evolution</i> , 1991, 33, 418-425.	0.8	78
26	DoGSD: the dog and wolf genome SNP database. <i>Nucleic Acids Research</i> , 2015, 43, D777-D783.	6.5	76
27	The <i>Xenopus</i> proglucagon gene encodes novel GLP-1-like peptides with insulinotropic properties. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997, 94, 7915-7920.	3.3	72
28	CREPT Accelerates Tumorigenesis by Regulating the Transcription of Cell-Cycle-Related Genes. <i>Cancer Cell</i> , 2012, 21, 92-104.	7.7	71
29	Mitogenomic analyses propose positive selection in mitochondrial genes for high-altitude adaptation in galliform birds. <i>Mitochondrion</i> , 2014, 18, 70-75.	1.6	70
30	Positive selection rather than relaxation of functional constraint drives the evolution of vision during chicken domestication. <i>Cell Research</i> , 2016, 26, 556-573.	5.7	69
31	Analysis of Circulating Tumor Cells in Ovarian Cancer and Their Clinical Value as a Biomarker. <i>Cellular Physiology and Biochemistry</i> , 2018, 48, 1983-1994.	1.1	63
32	Molecular evolution of the vertebrate hexokinase gene family: Identification of a conserved fifth vertebrate hexokinase gene. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2008, 3, 96-107.	0.4	62
33	Structure and evolution of the bovine prothrombin gene. <i>Journal of Molecular Biology</i> , 1988, 200, 31-45.	2.0	60
34	Population Variation Reveals Independent Selection toward Small Body Size in Chinese Debao Pony. <i>Genome Biology and Evolution</i> , 2016, 8, 42-50.	1.1	57
35	Emergence of SARS-like coronavirus poses new challenge in China. <i>Journal of Infection</i> , 2020, 80, 350-371.	1.7	56
36	GdX/UBL4A Specifically Stabilizes the TC45/STAT3 Association and Promotes Dephosphorylation of STAT3 to Repress Tumorigenesis. <i>Molecular Cell</i> , 2014, 53, 752-765.	4.5	54

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37	Evolutionary genetics of ruminant lysozymes. <i>Animal Genetics</i> , 1992, 23, 193-202.	0.6	52
38	Evolution of the mammalian lysozyme gene family. <i>BMC Evolutionary Biology</i> , 2011, 11, 166.	3.2	52
39	Convergent genomic signatures of high-altitude adaptation among domestic mammals. <i>National Science Review</i> , 2020, 7, 952-963.	4.6	52
40	Lamprey proglucagon and the origin of glucagon-like peptides. <i>Molecular Biology and Evolution</i> , 1999, 16, 1548-1557.	3.5	51
41	Genome-Wide Scans for Candidate Genes Involved in the Aquatic Adaptation of Dolphins. <i>Genome Biology and Evolution</i> , 2013, 5, 130-139.	1.1	49
42	Convergent Evolution of Human-Isolated H7N9 Avian Influenza A Viruses. <i>Journal of Infectious Diseases</i> , 2018, 217, 1699-1707.	1.9	49
43	Genetic adaptations of the plateau zokor in high-elevation burrows. <i>Scientific Reports</i> , 2015, 5, 17262.	1.6	48
44	The fish endocrine pancreas: Review, new data, and future research directions in ontogeny and phylogeny. <i>General and Comparative Endocrinology</i> , 2006, 148, 105-115.	0.8	47
45	Genome wide analyses uncover allele-specific RNA editing in human and mouse. <i>Nucleic Acids Research</i> , 2018, 46, 8888-8897.	6.5	47
46	A Profound Role for the Expansion of Trypsin-Like Serine Protease Family in the Evolution of Hematophagy in Mosquito. <i>Molecular Biology and Evolution</i> , 2009, 26, 2333-2341.	3.5	46
47	Population Genomics Analysis Revealed Origin and High-altitude Adaptation of Tibetan Pigs. <i>Scientific Reports</i> , 2019, 9, 11463.	1.6	44
48	Genome and single-cell RNA-sequencing of the earthworm <i>Eisenia andrei</i> identifies cellular mechanisms underlying regeneration. <i>Nature Communications</i> , 2020, 11, 2656.	5.8	43
49	Decoding the RNA viromes in rodent lungs provides new insight into the origin and evolutionary patterns of rodent-borne pathogens in Mainland Southeast Asia. <i>Microbiome</i> , 2021, 9, 18.	4.9	43
50	A second insulin gene in fish genomes. <i>General and Comparative Endocrinology</i> , 2004, 135, 150-158.	0.8	41
51	Comparative population genomics reveals genetic basis underlying body size of domestic chickens. <i>Journal of Molecular Cell Biology</i> , 2016, 8, 542-552.	1.5	41
52	Evolution of glucose utilization: Glucokinase and glucokinase regulator protein. <i>Molecular Phylogenetics and Evolution</i> , 2014, 70, 195-203.	1.2	40
53	Evolution of cow nonstomach lysozyme genes. <i>Genome</i> , 2004, 47, 1082-1090.	0.9	39
54	Comparison of glyburide and insulin in the management of gestational diabetes: A meta-analysis. <i>PLoS ONE</i> , 2017, 12, e0182488.	1.1	39

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55	Characterization of the cow stomach lysozyme genes: Repetitive DNA and concerted evolution. <i>Journal of Molecular Evolution</i> , 1993, 37, 355-66.	0.8	38
56	Domestication of the Dog from the Wolf Was Promoted by Enhanced Excitatory Synaptic Plasticity: A Hypothesis. <i>Genome Biology and Evolution</i> , 2014, 6, 3115-3121.	1.1	38
57	Evolution of New Hormone Function: Loss and Gain of a Receptor. <i>Journal of Heredity</i> , 2005, 96, 205-211.	1.0	37
58	Exposure of Tumor-Associated Macrophages to Apoptotic MCF-7 Cells Promotes Breast Cancer Growth and Metastasis. <i>International Journal of Molecular Sciences</i> , 2015, 16, 11966-11982.	1.8	36
59	Out of Southern East Asia of the Brown Rat Revealed by Large-Scale Genome Sequencing. <i>Molecular Biology and Evolution</i> , 2018, 35, 149-158.	3.5	36
60	Exosomes from Macrophages Exposed to Apoptotic Breast Cancer Cells Promote Breast Cancer Proliferation and Metastasis. <i>Journal of Cancer</i> , 2019, 10, 2892-2906.	1.2	36
61	Excessive Autophagy Activation and Increased Apoptosis Are Associated with Palmitic Acid-Induced Cardiomyocyte Insulin Resistance. <i>Journal of Diabetes Research</i> , 2017, 2017, 1-11.	1.0	35
62	Evolution of Stomach Lysozyme: The Pig Lysozyme Gene. <i>Molecular Phylogenetics and Evolution</i> , 1996, 5, 298-308.	1.2	34
63	Ancient Duplications of the Human Proglucagon Gene. <i>Genomics</i> , 2002, 79, 741-746.	1.3	34
64	Molecular evolution of mammalian incretin hormone genes. <i>Regulatory Peptides</i> , 2009, 155, 121-130.	1.9	33
65	Evolution of Rodent Lysozymes: Isolation and Sequence of the Rat Lysozyme Genes. <i>Molecular Phylogenetics and Evolution</i> , 1993, 2, 65-75.	1.2	32
66	Aberrant Regulation of Human Intestinal Proglucagon Gene Expression in the NCI-H716 Cell Line. <i>Endocrinology</i> , 2003, 144, 2025-2033.	1.4	32
67	Parallel and Convergent Evolution of the Dim-Light Vision Gene RH1 in Bats (Order: Chiroptera). <i>PLoS ONE</i> , 2010, 5, e8838.	1.1	32
68	In silico identification and Bayesian phylogenetic analysis of multiple new mammalian kallikrein gene families. <i>Genomics</i> , 2006, 88, 591-599.	1.3	31
69	Evolution of the bovine lysozyme gene family: Changes in gene expression and reversion of function. <i>Journal of Molecular Evolution</i> , 1995, 41, 299-312.	0.8	30
70	Differences in Selection Drive Olfactory Receptor Genes in Different Directions in Dogs and Wolf. <i>Molecular Biology and Evolution</i> , 2012, 29, 3475-3484.	3.5	30
71	Fish proglucagon genes have differing coding potential. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2004, 137, 255-264.	0.7	29
72	Genetic Adaptation of the Hypoxia-Inducible Factor Pathway to Oxygen Pressure among Eurasian Human Populations. <i>Molecular Biology and Evolution</i> , 2012, 29, 3359-3370.	3.5	29

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73	DNA methylation signatures of long intergenic noncoding RNAs in porcine adipose and muscle tissues. <i>Scientific Reports</i> , 2015, 5, 15435.	1.6	29
74	Human glucagon gene promoter sequences regulating tissue-specific versus nutrient-regulated gene expression. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2002, 282, R173-R183.	0.9	28
75	“Out of Pollen” Hypothesis for Origin of New Genes in Flowering Plants: Study from <i>Arabidopsis thaliana</i> . <i>Genome Biology and Evolution</i> , 2014, 6, 2822-2829.	1.1	28
76	Evolutionary and Functional Novelty of Pancreatic Ribonuclease: a Study of Musteloidea (order) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62</i>	1.6	28
77	Tumacrophage: macrophages transformed into tumor stem-like cells by virulent genetic material from tumor cells. <i>Oncotarget</i> , 2017, 8, 82326-82343.	0.8	28
78	Evolution of an active-site codon in serine proteases. <i>Nature</i> , 1988, 336, 429-430.	13.7	26
79	Mosaic Evolution of Ruminant Stomach Lysozyme Genes. <i>Molecular Phylogenetics and Evolution</i> , 1999, 13, 474-482.	1.2	26
80	547 transcriptomes from 44 brain areas reveal features of the aging brain in non-human primates. <i>Genome Biology</i> , 2019, 20, 258.	3.8	26
81	Base Composition and Host Adaptation of the SARS-CoV-2: Insight From the Codon Usage Perspective. <i>Frontiers in Microbiology</i> , 2021, 12, 548275.	1.5	26
82	Physical mapping of the lysozyme gene family in cattle. <i>Mammalian Genome</i> , 1993, 4, 368-373.	1.0	25
83	Incretin hormones and the expanding families of glucagon-like sequences and their receptors. <i>Diabetes, Obesity and Metabolism</i> , 2011, 13, 69-81.	2.2	25
84	Comparison of whole embryonic development in the duck (<i>Anas platyrhynchos</i>) and goose (<i>Anser</i>) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62</i>	1.5	25
85	Evolution of prothrombin: Isolation and characterization of the cDNAs encoding chicken and hagfish prothrombin. <i>Journal of Molecular Evolution</i> , 1994, 38, 177-187.	0.8	24
86	The complete consensus sequence of coxsackievirus B6 and generation of infectious clones by long RT-PCR. <i>Virus Research</i> , 1999, 64, 77-86.	1.1	24
87	Resistin and insulin resistance in hepatocytes: Resistin disturbs glycogen metabolism at the protein level. <i>Biomedicine and Pharmacotherapy</i> , 2009, 63, 366-374.	2.5	23
88	Insulin treatment and high-fat diet feeding reduces the expression of three Tcf genes in rodent pancreas. <i>Journal of Endocrinology</i> , 2010, 207, 77-86.	1.2	22
89	Evolution of the vertebrate goose-type lysozyme gene family. <i>BMC Evolutionary Biology</i> , 2014, 14, 188.	3.2	22
90	Genetic variations associated with six-white-point coat pigmentation in Diannan small-ear pigs. <i>Scientific Reports</i> , 2016, 6, 27534.	1.6	22

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91	Evolution of the vertebrate insulin receptor substrate (Irs) gene family. BMC Evolutionary Biology, 2017, 17, 148.	3.2	22
92	Rapid evolving H7N9 avian influenza A viruses pose new challenge. Journal of Infection, 2019, 78, 249-259.	1.7	22
93	Covariation of the Fecal Microbiome with Diet in Nonpasserine Birds. MSphere, 2021, 6, .	1.3	22
94	Circular RNA Profiling Identifies Novel circPPARA that Promotes Intramuscular Fat Deposition in Pigs. Journal of Agricultural and Food Chemistry, 2022, 70, 4123-4137.	2.4	22
95	Evolution of receptors for proglucagon-derived peptides: isolation of frog glucagon receptors. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2001, 128, 517-527.	0.7	21
96	Bats: Body mass index, forearm mass index, blood glucose levels and SLC2A2 genes for diabetes. Scientific Reports, 2016, 6, 29960.	1.6	21
97	Diversification of the functions of proglucagon and glucagon receptor genes in fish. General and Comparative Endocrinology, 2018, 261, 148-165.	0.8	21
98	Apoptotic SKOV3 cells stimulate M0 macrophages to differentiate into M2 macrophages and promote their proliferation and migration of ovarian cancer cells by activating the ERK signaling pathway. International Journal of Molecular Medicine, 2019, 45, 10-22.	1.8	20
99	Comparative study of gut microbiota from captive and confiscated-rescued wild pangolins. Journal of Genetics and Genomics, 2021, 48, 825-835.	1.7	20
100	Molecular Evolution: Who are the parents of eukaryotes?. Current Biology, 1994, 4, 1115-1117.	1.8	19
101	Divergent regulation of human and rat proglucagon gene promoters in vivo. American Journal of Physiology - Renal Physiology, 1999, 277, G829-G837.	1.6	19
102	The recombination hot spots and genetic diversity of the genomes of African swine fever viruses. Journal of Infection, 2020, 80, 121-142.	1.7	19
103	Signature of Balancing Selection at the MC1R Gene in Kunming Dog Populations. PLoS ONE, 2013, 8, e55469.	1.1	19
104	Characterization of the bovine prothrombin gene. Biochemistry, 1985, 24, 6854-6861.	1.2	18
105	Evolution of Hormone Function: Proglucagon-derived Peptides and Their Receptors. BioScience, 2005, 55, 583.	2.2	18
106	Evolution of receptors for peptides similar to glucagon. General and Comparative Endocrinology, 2014, 209, 50-60.	0.8	18
107	Highly pathogenic H5N6 influenza A viruses recovered from wild birds in Guangdong, southern China, 2014-2015. Scientific Reports, 2017, 7, 44410.	1.6	18
108	Molecular signatures and functional analysis of beige adipocytes induced from in vivo intra-abdominal adipocytes. Science Advances, 2018, 4, eaar5319.	4.7	18

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109	Overexpression of DUSP6 enhances chemotherapy-resistance of ovarian epithelial cancer by regulating the ERK signaling pathway. <i>Journal of Cancer</i> , 2020, 11, 3151-3164.	1.2	18
110	Selective constraints on the activation domain of transcription factor Pit-1.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996, 93, 10256-10261.	3.3	17
111	Origin and convergent evolution of exendin genes. <i>General and Comparative Endocrinology</i> , 2012, 175, 27-33.	0.8	17
112	Resistin disrupts glycogen synthesis under high insulin and high glucose levels by down-regulating the hepatic levels of GSK3 β . <i>Gene</i> , 2013, 529, 50-56.	1.0	17
113	Differential Expression of Meis2, Mab21l2 and Tbx3 during Limb Development Associated with Diversification of Limb Morphology in Mammals. <i>PLoS ONE</i> , 2014, 9, e106100.	1.1	17
114	Better fit of codon usage of the polymerase and nucleoprotein genes to the chicken host for H7N9 than H9N2 AIVs. <i>Journal of Infection</i> , 2019, 79, 174-187.	1.7	17
115	Hen raising helps chicks establish gut microbiota in their early life and improve microbiota stability after H9N2 challenge. <i>Microbiome</i> , 2022, 10, 14.	4.9	17
116	Proglucagon cDNAs from the Leopard Frog, <i>Rana pipiens</i> , encode two GLP-1-like peptides. <i>Molecular and Cellular Endocrinology</i> , 2000, 162, 17-24.	1.6	16
117	Evolution of the vertebrate glucose-dependent insulinotropic polypeptide (GIP) gene. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2006, 1, 385-395.	0.4	16
118	Intron 1 sequences are required for pancreatic expression of the human proglucagon gene. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2006, 290, R634-R641.	0.9	16
119	Identification of Candidate Circular RNAs Underlying Intramuscular Fat Content in the Donkey. <i>Frontiers in Genetics</i> , 2020, 11, 587559.	1.1	16
120	Decreased CRH mRNA expression in the fetal guinea pig hypothalamus following maternal nutrient restriction. <i>Brain Research</i> , 2001, 896, 179-182.	1.1	15
121	Adaptive Evolution of the Hox Gene Family for Development in Bats and Dolphins. <i>PLoS ONE</i> , 2013, 8, e65944.	1.1	15
122	Xinmailong mitigated epirubicin-induced cardiotoxicity via inhibiting autophagy. <i>Journal of Ethnopharmacology</i> , 2016, 192, 459-470.	2.0	15
123	Phylogeographic patterns of the African swine fever virus. <i>Journal of Infection</i> , 2019, 79, 174-187.	1.7	14
124	Genetic Diversity, Inbreeding Level, and Genetic Load in Endangered Snub-Nosed Monkeys (<i>Rhinopithecus</i>). <i>Frontiers in Genetics</i> , 2020, 11, 615926.	1.1	14
125	A new canine distemper virus lineage identified from red pandas in China. <i>Transboundary and Emerging Diseases</i> , 2022, 69, .	1.3	14
126	Adaptation of gut microbiome and host metabolic systems to lignocellulosic degradation in bamboo rats. <i>ISME Journal</i> , 2022, 16, 1980-1992.	4.4	14

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127	Role of Glucokinase in the Subcellular Localization of Glucokinase Regulatory Protein. <i>International Journal of Molecular Sciences</i> , 2015, 16, 7377-7393.	1.8	13
128	The evolutionary dynamics of H1N1/pdm2009 in India. <i>Infection, Genetics and Evolution</i> , 2018, 65, 276-282.	1.0	13
129	Balancing Selection on CDH2 May Be Related to the Behavioral Features of the Belgian Malinois. <i>PLoS ONE</i> , 2014, 9, e110075.	1.1	13
130	Molecular cloning of preproinsulin cDNAs from several osteoglossomorphs and a cyprinid. <i>Molecular and Cellular Endocrinology</i> , 2001, 174, 51-58.	1.6	12
131	Structure and expression of the chicken proglucagon gene. <i>Molecular and Cellular Endocrinology</i> , 2005, 230, 69-76.	1.6	12
132	Direct Regulation of the Proglucagon Gene by Insulin, Leptin, and cAMP in Embryonic versus Adult Hypothalamic Neurons. <i>Molecular Endocrinology</i> , 2012, 26, 1339-1355.	3.7	12
133	Positive Selection on the Gene RNASEL: Correlation between Patterns of Evolution and Function. <i>Molecular Biology and Evolution</i> , 2012, 29, 3161-3168.	3.5	12
134	Differential expression of genes and changes in glucose metabolism in the liver of liver-specific glucokinase gene knockout mice. <i>Gene</i> , 2013, 516, 248-254.	1.0	12
135	Integrative analyses of RNA editing, alternative splicing, and expression of young genes in human brain transcriptome by deep RNA sequencing. <i>Journal of Molecular Cell Biology</i> , 2015, 7, 314-325.	1.5	12
136	Identification of HNF4A Mutation p.T130I and HNF1A Mutations p.I27L and p.S487N in a Han Chinese Family with Early-Onset Maternally Inherited Type 2 Diabetes. <i>Journal of Diabetes Research</i> , 2016, 2016, 1-8.	1.0	12
137	Multiple specialised goose-type lysozymes potentially compensate for an exceptional lack of chicken-type lysozymes in Atlantic cod. <i>Scientific Reports</i> , 2016, 6, 28318.	1.6	12
138	Evolutionary dynamics of avian influenza A H7N9 virus across five waves in mainland China, 2013–2017. <i>Journal of Infection</i> , 2018, 77, 205-211.	1.7	12
139	Increasing the potential ability of human infections in H5N6 avian influenza A viruses. <i>Journal of Infection</i> , 2018, 77, 349-356.	1.7	12
140	Adaptive Evolution of Human-Isolated H5Nx Avian Influenza A Viruses. <i>Frontiers in Microbiology</i> , 2019, 10, 1328.	1.5	12
141	Host Adaptation and Evolutionary Analysis of Zaire ebolavirus: Insights From Codon Usage Based Investigations. <i>Frontiers in Microbiology</i> , 2020, 11, 570131.	1.5	12
142	Evolution of the Insulin Gene: Changes in Gene Number, Sequence, and Processing. <i>Frontiers in Endocrinology</i> , 2021, 12, 649255.	1.5	12
143	Recombinant Genetic Approaches to Functional Mapping of Thrombin. <i>Annals of the New York Academy of Sciences</i> , 1986, 485, 73-79.	1.8	11
144	Evolution of Hepatic Glucose Metabolism: Liver-Specific Glucokinase Deficiency Explained by Parallel Loss of the Gene for Glucokinase Regulatory Protein (GCKR). <i>PLoS ONE</i> , 2013, 8, e60896.	1.1	11

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145	Integrative analysis of young genes, positively selected genes and lncRNAs in the development of <i>Drosophila melanogaster</i> . <i>BMC Evolutionary Biology</i> , 2014, 14, 241.	3.2	11
146	Staurosporine Induced Apoptosis May Activate Cancer Stem-Like Cells (CD44 ⁺ /CD24 ⁻) in MCF-7 by Upregulating Mucin1 and EpCAM. <i>Journal of Cancer</i> , 2015, 6, 1049-1057.	1.2	11
147	Host genetics is associated with the gut microbial community membership rather than the structure. <i>Molecular BioSystems</i> , 2016, 12, 1676-1686.	2.9	11
148	PigVar: a database of pig variations and positive selection signatures. <i>Database: the Journal of Biological Databases and Curation</i> , 2017, 2017, .	1.4	11
149	Unveiling the Biogeography and Potential Functions of the Intestinal Digesta- and Mucosa-Associated Microbiome of Donkeys. <i>Frontiers in Microbiology</i> , 2020, 11, 596882.	1.5	11
150	Genomic organization and evolution of ruminant lysozyme c genes. <i>Zoological Research</i> , 2015, 36, 1-17.	0.6	11
151	Long-term renal changes in the liver-specific glucokinase knockout mouse: implications for renal disease in maturity-onset diabetes of the young 2. <i>Translational Research</i> , 2011, 157, 111-116.	2.2	10
152	Long term liver specific glucokinase gene defect induced diabetic cardiomyopathy by up regulating NADPH oxidase and down regulating insulin receptor and p-AMPK. <i>Cardiovascular Diabetology</i> , 2014, 13, 24.	2.7	10
153	Molecular Evolution of the Nuclear Factor (Erythroid-Derived 2)-Like 2 Gene <i>Nrf2</i> in Old World Fruit Bats (Chiroptera: Pteropodidae). <i>PLoS ONE</i> , 2016, 11, e0146274.	1.1	10
154	Retention and losses of ultraviolet-sensitive visual pigments in bats. <i>Scientific Reports</i> , 2018, 8, 11933.	1.6	10
155	Evolution of Trichocyte Keratin Associated Proteins. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1054, 47-56.	0.8	10
156	Evolution and transition of expression trajectory during human brain development. <i>BMC Evolutionary Biology</i> , 2020, 20, 72.	3.2	10
157	Limitations of Molecular Methods for Establishing the Phylogeny of Mammals, with Special Reference to the Position of Elephants. , 1993, , 257-267.		10
158	Multiple Episodes of Convergence in Genes of the Dim Light Vision Pathway in Bats. <i>PLoS ONE</i> , 2012, 7, e34564.	1.1	10
159	Evolution of the Vertebrate Resistin Gene Family. <i>PLoS ONE</i> , 2015, 10, e0130188.	1.1	10
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