

David M Irwin

List of Publications by Citations

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232
papers

6,911
citations

38
h-index

76
g-index

242
ext. papers

8,303
ext. citations

6.7
avg, IF

5.95
L-index

#	Paper	IF	Citations
232	Evolution of the cytochrome b gene of mammals. <i>Journal of Molecular Evolution</i> , 1991 , 32, 128-44	3.1	1787
231	The genomics of selection in dogs and the parallel evolution between dogs and humans. <i>Nature Communications</i> , 2013 , 4, 1860	17.4	199
230	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, 8666-71	11.5	180
229	Out of southern East Asia: the natural history of domestic dogs across the world. <i>Cell Research</i> , 2016 , 26, 21-33	24.7	177
228	Draft genome sequence of the Tibetan antelope. <i>Nature Communications</i> , 2013 , 4, 1858	17.4	162
227	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	11.5	122
226	De novo origin of human protein-coding genes. <i>PLoS Genetics</i> , 2011 , 7, e1002379	6	120
225	Genomic Analyses Reveal Potential Independent Adaptation to High Altitude in Tibetan Chickens. <i>Molecular Biology and Evolution</i> , 2015 , 32, 1880-9	8.3	114
224	Cytochrome b gene of marine mammals: Phylogeny and evolution. <i>Journal of Mammalian Evolution</i> , 1994 , 2, 37-55	2.2	109
223	Glucagon-like peptide 1 increases insulin sensitivity in depancreatized dogs. <i>Diabetes</i> , 1999 , 48, 1045-53	0.9	91
222	Population variation revealed high-altitude adaptation of Tibetan mastiffs. <i>Molecular Biology and Evolution</i> , 2014 , 31, 1200-5	8.3	88
221	CHIP promotes Runx2 degradation and negatively regulates osteoblast differentiation. <i>Journal of Cell Biology</i> , 2008 , 181, 959-72	7.3	86
220	Molecular evolution of vertebrate goose-type lysozyme genes. <i>Journal of Molecular Evolution</i> , 2003 , 56, 234-42	3.1	85
219	The Wnt signaling pathway effector TCF7L2 controls gut and brain proglucagon gene expression and glucose homeostasis. <i>Diabetes</i> , 2013 , 62, 789-800	0.9	83
218	Molecular evolution of proglucagon. <i>Regulatory Peptides</i> , 2001 , 98, 1-12		77
217	Stepwise loss of motilin and its specific receptor genes in rodents. <i>Journal of Molecular Endocrinology</i> , 2010 , 44, 37-44	4.5	75
216	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, 1387-92	3.9	72

215	Stomach lysozyme gene of the langur monkey: tests for convergence and positive selection. <i>Journal of Molecular Evolution</i> , 1991 , 33, 418-25	3.1	69
214	Human genes encoding prothrombin and ceruloplasmin map to 11p11-q12 and 3q21-24, respectively. <i>Somatic Cell and Molecular Genetics</i> , 1987 , 13, 285-92		69
213	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, 7915-20	11.5	67
212	Domestication genomics: evidence from animals. <i>Annual Review of Animal Biosciences</i> , 2014 , 2, 65-84	13.7	65
211	Evaluating the roles of energetic functional constraints on teleost mitochondrial-encoded protein evolution. <i>Molecular Biology and Evolution</i> , 2011 , 28, 39-44	8.3	65
210	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	64
209	DoGSD: the dog and wolf genome SNP database. <i>Nucleic Acids Research</i> , 2015 , 43, D777-83	20.1	62
208	CREPT accelerates tumorigenesis by regulating the transcription of cell-cycle-related genes. <i>Cancer Cell</i> , 2012 , 21, 92-104	24.3	59
207	Structure and evolution of the bovine prothrombin gene. <i>Journal of Molecular Biology</i> , 1988 , 200, 31-45	6.5	58
206	Genomic analysis of snub-nosed monkeys (<i>Rhinopithecus</i>) identifies genes and processes related to high-altitude adaptation. <i>Nature Genetics</i> , 2016 , 48, 947-52	36.3	58
205	Lamprey proglucagon and the origin of glucagon-like peptides. <i>Molecular Biology and Evolution</i> , 1999 , 16, 1548-57	8.3	50
204	Mitogenomic analyses propose positive selection in mitochondrial genes for high-altitude adaptation in galliform birds. <i>Mitochondrion</i> , 2014 , 18, 70-5	4.9	49
203	GdX/UBL4A specifically stabilizes the TC45/STAT3 association and promotes dephosphorylation of STAT3 to repress tumorigenesis. <i>Molecular Cell</i> , 2014 , 53, 752-65	17.6	44
202	Emergence of SARS-like coronavirus poses new challenge in China. <i>Journal of Infection</i> , 2020 , 80, 350-371	18.9	43
201	Evolution of the mammalian lysozyme gene family. <i>BMC Evolutionary Biology</i> , 2011 , 11, 166	3	42
200	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	2	42
199	Evolutionary genetics of ruminant lysozymes. <i>Animal Genetics</i> , 1992 , 23, 193-202	2.5	41
198	Whole genomes and transcriptomes reveal adaptation and domestication of pistachio. <i>Genome Biology</i> , 2019 , 20, 79	18.3	40

197	A second insulin gene in fish genomes. <i>General and Comparative Endocrinology</i> , 2004 , 135, 150-8	3	40
196	Genome-wide scans for candidate genes involved in the aquatic adaptation of dolphins. <i>Genome Biology and Evolution</i> , 2013 , 5, 130-9	3.9	39
195	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	8.3	37
194	The fish endocrine pancreas: review, new data, and future research directions in ontogeny and phylogeny. <i>General and Comparative Endocrinology</i> , 2006 , 148, 105-15	3	36
193	Evolution of cow nonstomach lysozyme genes. <i>Genome</i> , 2004 , 47, 1082-90	2.4	36
192	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, 2333-41	8.3	35
191	Evolution of new hormone function: loss and gain of a receptor. <i>Journal of Heredity</i> , 2005 , 96, 205-11	2.4	35
190	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	3.9	34
189	Ancient duplications of the human proglucagon gene. <i>Genomics</i> , 2002 , 79, 741-6	4.3	33
188	Molecular evolution of mammalian incretin hormone genes. <i>Regulatory Peptides</i> , 2009 , 155, 121-30		32
187	Evolution of stomach lysozyme: the pig lysozyme gene. <i>Molecular Phylogenetics and Evolution</i> , 1996 , 5, 298-308	4.1	32
186	Characterization of the cow stomach lysozyme genes: repetitive DNA and concerted evolution. <i>Journal of Molecular Evolution</i> , 1993 , 37, 355-66	3.1	32
185	Evolution of glucose utilization: glucokinase and glucokinase regulator protein. <i>Molecular Phylogenetics and Evolution</i> , 2014 , 70, 195-203	4.1	31
184	Comparison of glyburide and insulin in the management of gestational diabetes: A meta-analysis. <i>PLoS ONE</i> , 2017 , 12, e0182488	3.7	31
183	Positive selection rather than relaxation of functional constraint drives the evolution of vision during chicken domestication. <i>Cell Research</i> , 2016 , 26, 556-73	24.7	31
182	Genetic adaptations of the plateau zokor in high-elevation burrows. <i>Scientific Reports</i> , 2015 , 5, 17262	4.9	30
181	Aberrant regulation of human intestinal proglucagon gene expression in the NCI-H716 cell line. <i>Endocrinology</i> , 2003 , 144, 2025-33	4.8	29
180	Fish proglucagon genes have differing coding potential. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2004 , 137, 255-64	2.3	29

179	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	3.1	29
178	Evolution of rodent lysozymes: isolation and sequence of the rat lysozyme genes. <i>Molecular Phylogenetics and Evolution</i> , 1993 , 2, 65-75	4.1	29
177	Parallel and convergent evolution of the dim-light vision gene RH1 in bats (Order: Chiroptera). <i>PLoS ONE</i> , 2010 , 5, e8838	3.7	28
176	In silico identification and Bayesian phylogenetic analysis of multiple new mammalian kallikrein gene families. <i>Genomics</i> , 2006 , 88, 591-9	4.3	28
175	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, 11966-82	6.3	27
174	Genetic adaptation of the hypoxia-inducible factor pathway to oxygen pressure among eurasian human populations. <i>Molecular Biology and Evolution</i> , 2012 , 29, 3359-70	8.3	26
173	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, R173-83	3.2	26
172	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	8.3	25
171	Mosaic evolution of ruminant stomach lysozyme genes. <i>Molecular Phylogenetics and Evolution</i> , 1999 , 13, 474-82	4.1	25
170	Evolution of an active-site codon in serine proteases. <i>Nature</i> , 1988 , 336, 429-30	50.4	25
169	Excessive Autophagy Activation and Increased Apoptosis Are Associated with Palmitic Acid-Induced Cardiomyocyte Insulin Resistance. <i>Journal of Diabetes Research</i> , 2017 , 2017, 2376893	3.9	24
168	"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, 2822-9	3.9	24
167	Incretin hormones and the expanding families of glucagon-like sequences and their receptors. <i>Diabetes, Obesity and Metabolism</i> , 2011 , 13 Suppl 1, 69-81	6.7	24
166	Population Variation Reveals Independent Selection toward Small Body Size in Chinese Debao Pony. <i>Genome Biology and Evolution</i> , 2015 , 8, 42-50	3.9	23
165	Domestication of the dog from the wolf was promoted by enhanced excitatory synaptic plasticity: a hypothesis. <i>Genome Biology and Evolution</i> , 2014 , 6, 3115-21	3.9	23
164	Physical mapping of the lysozyme gene family in cattle. <i>Mammalian Genome</i> , 1993 , 4, 368-73	3.2	23
163	Evolution of prothrombin: isolation and characterization of the cDNAs encoding chicken and hagfish prothrombin. <i>Journal of Molecular Evolution</i> , 1994 , 38, 177-87	3.1	22
162	Exosomes from Macrophages Exposed to Apoptotic Breast Cancer Cells Promote Breast Cancer Proliferation and Metastasis. <i>Journal of Cancer</i> , 2019 , 10, 2892-2906	4.5	21

161	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	4.7	21
160	Convergent Evolution of Human-Isolated H7N9 Avian Influenza A Viruses. <i>Journal of Infectious Diseases</i> , 2018 , 217, 1699-1707	7	20
159	Evolution of receptors for proglucagon-derived peptides: isolation of frog glucagon receptors. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2001 , 128, 517-27	2.3	20
158	Rapid evolving H7N9 avian influenza A viruses pose new challenge. <i>Journal of Infection</i> , 2019 , 78, 249-259	28.9	20
157	Population Genomics Analysis Revealed Origin and High-altitude Adaptation of Tibetan Pigs. <i>Scientific Reports</i> , 2019 , 9, 11463	4.9	19
156	DNA methylation signatures of long intergenic noncoding RNAs in porcine adipose and muscle tissues. <i>Scientific Reports</i> , 2015 , 5, 15435	4.9	19
155	Evolution of receptors for peptides similar to glucagon. <i>General and Comparative Endocrinology</i> , 2014 , 209, 50-60	3	18
154	Evolution of the vertebrate goose-type lysozyme gene family. <i>BMC Evolutionary Biology</i> , 2014 , 14, 188	3	17
153	The complete consensus sequence of coxsackievirus B6 and generation of infectious clones by long RT-PCR. <i>Virus Research</i> , 1999 , 64, 77-86	6.4	17
152	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, 10256-61	11.5	17
151	Convergent genomic signatures of high-altitude adaptation among domestic mammals. <i>National Science Review</i> , 2020 , 7, 952-963	10.8	17
150	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	17.4	16
149	Diversification of the functions of proglucagon and glucagon receptor genes in fish. <i>General and Comparative Endocrinology</i> , 2018 , 261, 148-165	3	16
148	Resistin and insulin resistance in hepatocytes: resistin disturbs glycogen metabolism at the protein level. <i>Biomedicine and Pharmacotherapy</i> , 2009 , 63, 366-74	7.5	16
147	Differences in selection drive olfactory receptor genes in different directions in dogs and wolf. <i>Molecular Biology and Evolution</i> , 2012 , 29, 3475-84	8.3	16
146	Evolution of Hormone Function: Proglucagon-derived Peptides and Their Receptors. <i>BioScience</i> , 2005 , 55, 583	5.7	16
145	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	4.4	16
144	Divergent regulation of human and rat proglucagon gene promoters in vivo. <i>American Journal of Physiology - Renal Physiology</i> , 1999 , 277, G829-37	5.1	16

143	Highly pathogenic H5N6 influenza A viruses recovered from wild birds in Guangdong, southern China, 2014-2015. <i>Scientific Reports</i> , 2017 , 7, 44410	4.9	15
142	Comparative population genomics reveals genetic basis underlying body size of domestic chickens. <i>Journal of Molecular Cell Biology</i> , 2016 , 8, 542-552	6.3	15
141	Origin and convergent evolution of exendin genes. <i>General and Comparative Endocrinology</i> , 2012 , 175, 27-33	3	15
140	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, 50-6	3.8	15
139	Evolution of the vertebrate glucose-dependent insulintropic polypeptide (GIP) gene. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2006 , 1, 385-95	2	15
138	Decreased CRH mRNA expression in the fetal guinea pig hypothalamus following maternal nutrient restriction. <i>Brain Research</i> , 2001 , 896, 179-82	3.7	15
137	Molecular evolution. Who are the parents of eukaryotes?. <i>Current Biology</i> , 1994 , 4, 1115-7	6.3	15
136	Comparison of whole embryonic development in the duck (<i>Anas platyrhynchos</i>) and goose (<i>Anser cygnoides</i>) with the chicken (<i>Gallus gallus</i>). <i>Poultry Science</i> , 2019 , 98, 3278-3291	3.9	14
135	Evolution of the vertebrate insulin receptor substrate (Irs) gene family. <i>BMC Evolutionary Biology</i> , 2017 , 17, 148	3	14
134	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, R634-41	3.2	14
133	Characterization of the bovine prothrombin gene. <i>Biochemistry</i> , 1985 , 24, 6854-61	3.2	14
132	Tumacrophage: macrophages transformed into tumor stem-like cells by virulent genetic material from tumor cells. <i>Oncotarget</i> , 2017 , 8, 82326-82343	3.3	14
131	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	3.7	13
130	Signature of balancing selection at the MC1R gene in Kunming dog populations. <i>PLoS ONE</i> , 2013 , 8, e55469	3.7	13
129	Apoptotic SKOV3 cells stimulate M0 macrophages to differentiate into M2 macrophages and promote the proliferation and migration of ovarian cancer cells by activating the ERK signaling pathway. <i>International Journal of Molecular Medicine</i> , 2020 , 45, 10-22	4.4	13
128	Genetic variations associated with six-white-point coat pigmentation in Diannan small-ear pigs. <i>Scientific Reports</i> , 2016 , 6, 27534	4.9	12
127	Genome wide analyses uncover allele-specific RNA editing in human and mouse. <i>Nucleic Acids Research</i> , 2018 , 46, 8888-8897	20.1	12
126	Adaptive evolution of the Hox gene family for development in bats and dolphins. <i>PLoS ONE</i> , 2013 , 8, e65944	3.7	12

125	Direct regulation of the proglucagon gene by insulin, leptin, and cAMP in embryonic versus adult hypothalamic neurons. <i>Molecular Endocrinology</i> , 2012 , 26, 1339-55		12
124	Structure and expression of the chicken proglucagon gene. <i>Molecular and Cellular Endocrinology</i> , 2005 , 230, 69-76	4.4	12
123	Molecular cloning of preproinsulin cDNAs from several osteoglossomorphs and a cyprinid. <i>Molecular and Cellular Endocrinology</i> , 2001 , 174, 51-8	4.4	12
122	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	16.6	12
121	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	4.9	11
120	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	3.7	11
119	Balancing selection on CDH2 may be related to the behavioral features of the Belgian Malinois. <i>PLoS ONE</i> , 2014 , 9, e110075	3.7	11
118	Increasing the potential ability of human infections in H5N6 avian influenza A viruses. <i>Journal of Infection</i> , 2018 , 77, 349-356	18.9	10
117	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, 1049-57	4.5	10
116	Evolutionary and functional novelty of pancreatic ribonuclease: a study of Musteloidea (order Carnivora). <i>Scientific Reports</i> , 2014 , 4, 5070	4.9	10
115	Bats: Body mass index, forearm mass index, blood glucose levels and SLC2A2 genes for diabetes. <i>Scientific Reports</i> , 2016 , 6, 29960	4.9	10
114	Xinmailong mitigated epirubicin-induced cardiotoxicity via inhibiting autophagy. <i>Journal of Ethnopharmacology</i> , 2016 , 192, 459-470	5	10
113	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	18.9	10
112	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, 314-25	6.3	9
111	Differential expression of genes and changes in glucose metabolism in the liver of liver-specific glucokinase gene knockout mice. <i>Gene</i> , 2013 , 516, 248-54	3.8	9
110	Mixed S-nitrosylated polymerized bovine hemoglobin species moderate hemodynamic effects in acutely hypoxic rats. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2010 , 42, 200-9	5.7	9
109	Cloning of stanniocalcin (STC) cDNAs of divergent teleost species: Monomeric STC supports monophyly of the ancient teleosts, the osteoglossomorphs. <i>General and Comparative Endocrinology</i> , 2006 , 149, 100-7	3	9
108	Amphibian glucagon family peptides: potent metabolic regulators in fish hepatocytes. <i>Regulatory Peptides</i> , 2001 , 99, 111-8		9

107	Multiple episodes of convergence in genes of the dim light vision pathway in bats. <i>PLoS ONE</i> , 2012 , 7, e34564	3.7	9
106	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, 3582616	3.9	9
105	547 transcriptomes from 44 brain areas reveal features of the aging brain in non-human primates. <i>Genome Biology</i> , 2019 , 20, 258	18.3	9
104	Genome-wide identification and characterization of teleost-specific microRNAs within zebrafish. <i>Gene</i> , 2015 , 561, 181-9	3.8	8
103	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	8
102	Expression of the human glucokinase gene: important roles of the 5Pflanking and intron 1 sequences. <i>PLoS ONE</i> , 2012 , 7, e45824	3.7	8
101	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, 111-6	11	8
100	Evolution of genes for incretin hormones and their receptors. <i>Vitamins and Hormones</i> , 2010 , 84, 1-20	2.5	8
99	Correlated evolution among six gene families in <i>Drosophila</i> revealed by parallel change of gene numbers. <i>Genome Biology and Evolution</i> , 2011 , 3, 396-400	3.9	8
98	Positive selection on the gene RNASEL: correlation between patterns of evolution and function. <i>Molecular Biology and Evolution</i> , 2012 , 29, 3161-8	8.3	8
97	Genomic organization and evolution of ruminant lysozyme c genes. <i>Zoological Research</i> , 2015 , 36, 1-17		8
96	Duplication and diversification of insulin genes in ray-finned fish. <i>Zoological Research</i> , 2019 , 40, 185-197	3.4	8
95	Base Composition and Host Adaptation of the SARS-CoV-2: Insight From the Codon Usage Perspective. <i>Frontiers in Microbiology</i> , 2021 , 12, 548275	5.7	8
94	Covariation of the Fecal Microbiome with Diet in Nonpasserine Birds. <i>MSphere</i> , 2021 , 6,	5	8
93	Molecular Evolution of the Nuclear Factor (Erythroid-Derived 2)-Like 2 Gene Nrf2 in Old World Fruit Bats (Chiroptera: Pteropodidae). <i>PLoS ONE</i> , 2016 , 11, e0146274	3.7	8
92	Host genetics is associated with the gut microbial community membership rather than the structure. <i>Molecular BioSystems</i> , 2016 , 12, 1676-86		8
91	The recombination hot spots and genetic diversity of the genomes of African swine fever viruses. <i>Journal of Infection</i> , 2020 , 80, 121-142	18.9	8
90	The origin of chow chows in the light of the East Asian breeds. <i>BMC Genomics</i> , 2017 , 18, 174	4.5	7

89	Role of glucokinase in the subcellular localization of glucokinase regulatory protein. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 7377-93	6.3	7
88	Repetitive transpositions of mitochondrial DNA sequences to the nucleus during the radiation of horseshoe bats (<i>Rhinolophus</i> , Chiroptera). <i>Gene</i> , 2016 , 581, 161-9	3.8	7
87	Molecular signatures and functional analysis of beige adipocytes induced from in vivo intra-abdominal adipocytes. <i>Science Advances</i> , 2018 , 4, eaar5319	14.3	7
86	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	8.7	7
85	Prolonged treatment with 3-isobutyl-1-methylxanthine improves the efficiency of differentiating 3T3-L1 cells into adipocytes. <i>Analytical Biochemistry</i> , 2016 , 507, 18-20	3.1	7
84	Retention and losses of ultraviolet-sensitive visual pigments in bats. <i>Scientific Reports</i> , 2018 , 8, 11933	4.9	6
83	The great roundleaf bat (<i>Hipposideros armiger</i>) as a good model for cold-induced browning of intra-abdominal white adipose tissue. <i>PLoS ONE</i> , 2014 , 9, e112495	3.7	6
82	Recombinant genetic approaches to functional mapping of thrombin. <i>Annals of the New York Academy of Sciences</i> , 1986 , 485, 73-9	6.5	6
81	Genome-wide scan for bats and dolphin to detect their genetic basis for new locomotive styles. <i>PLoS ONE</i> , 2012 , 7, e46455	3.7	6
80	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	4.5	6
79	Limitations of Molecular Methods for Establishing the Phylogeny of Mammals, with Special Reference to the Position of Elephants 1993 , 257-267		6
78	Phylogeographic patterns of the African swine fever virus. <i>Journal of Infection</i> , 2019 , 79, 174-187	18.9	5
77	Complete mitochondrial genome of the Indian peafowl (<i>Pavo cristatus</i>), with phylogenetic analysis in phasianidae. <i>Mitochondrial DNA</i> , 2015 , 26, 912-3		5
76	The genetic and phylogenetic analysis of a highly pathogenic influenza A H5N6 virus from a heron, southern China, 2013. <i>Infection, Genetics and Evolution</i> , 2018 , 59, 72-74	4.5	5
75	The evolutionary dynamics of H1N1/pdm2009 in India. <i>Infection, Genetics and Evolution</i> , 2018 , 65, 276-282	4.5	5
74	Evolution of Trichocyte Keratin Associated Proteins. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1054, 47-56	3.6	5
73	Adaptive Evolution of Human-Isolated H5Nx Avian Influenza A Viruses. <i>Frontiers in Microbiology</i> , 2019 , 10, 1328	5.7	5
72	Differential expression of genes associated with the progression of renal disease in the kidneys of liver-specific glucokinase gene knockout mice. <i>International Journal of Molecular Sciences</i> , 2013 , 14, 6467-86	6.3	5

71	Evolution of the Vertebrate Resistin Gene Family. <i>PLoS ONE</i> , 2015 , 10, e0130188	3.7	5
70	Contrasting Patterns in the Evolution of Vertebrate MLX Interacting Protein (MLXIP) and MLX Interacting Protein-Like (MLXIPL) Genes. <i>PLoS ONE</i> , 2016 , 11, e0149682	3.7	5
69	Genetic Diversity, Inbreeding Level, and Genetic Load in Endangered Snub-Nosed Monkeys (). <i>Frontiers in Genetics</i> , 2020 , 11, 615926	4.5	5
68	Variation in the rates of evolution of the insulin and glucagon hormone and receptor genes in rodents. <i>Gene</i> , 2020 , 728, 144296	3.8	5
67	Adaptive Evolution of C-Type Lysozyme in Vampire Bats. <i>Journal of Molecular Evolution</i> , 2019 , 87, 309-316	15.1	4
66	Avian influenza A viruses H5Nx (N1, N2, N6 and N8) show different adaptations of their codon usage patterns to their hosts. <i>Journal of Infection</i> , 2019 , 79, 174-187	18.9	4
65	Diversification of Sisorid catfishes (Teleostei: Siluriformes) in relation to the orogeny of the Himalayan Plateau. <i>Science Bulletin</i> , 2016 , 61, 991-1002	10.6	4
64	Parallel evolution of the glycogen synthase 1 (muscle) gene <i>Gys1</i> between Old World and New World fruit bats (Order: Chiroptera). <i>Biochemical Genetics</i> , 2014 , 52, 443-58	2.4	4
63	QcReads: an adapter and quality trimming tool for next-generation sequencing reads. <i>Journal of Genetics and Genomics</i> , 2013 , 40, 639-42	4	4
62	Rapid evolution of the mammalian <i>HILS1</i> gene and the nuclear condensation process during mammalian spermiogenesis. <i>Journal of Genetics and Genomics</i> , 2013 , 40, 55-9	4	4
61	PigVar: a database of pig variations and positive selection signatures. <i>Database: the Journal of Biological Databases and Curation</i> , 2017 , 2017,	5	4
60	Introgression of mitochondrial DNA promoted by natural selection in the Japanese pipistrelle bat (<i>Pipistrellus abramus</i>). <i>Genetica</i> , 2014 , 142, 483-94	1.5	4
59	Characterization of the gene expression profile of heterozygous liver-specific glucokinase knockout mice at a young age. <i>Biomedicine and Pharmacotherapy</i> , 2012 , 66, 587-96	7.5	4
58	An over expression APP model for anti-Alzheimer disease drug screening created by zinc finger nuclease technology. <i>PLoS ONE</i> , 2013 , 8, e75493	3.7	4
57	cDNA cloning of proglucagon from the stomach and pancreas of the dog. <i>DNA Sequence</i> , 2001 , 12, 253-60		4
56	Assays for copy number, differential expression, and recombination in lysozyme multigene family. <i>Methods in Enzymology</i> , 1993 , 224, 552-63	1.7	4
55	Phosphoenolpyruvate carboxykinase 1 gene (<i>Pck1</i>) displays parallel evolution between Old World and New World fruit bats. <i>PLoS ONE</i> , 2015 , 10, e0118666	3.7	4
54	The fit of codon usage of human-isolated avian influenza A viruses to human. <i>Infection, Genetics and Evolution</i> , 2020 , 81, 104181	4.5	4

53	Host Adaptation and Evolutionary Analysis of : Insights From Codon Usage Based Investigations. <i>Frontiers in Microbiology</i> , 2020 , 11, 570131	5.7	4
52	Vaccine against Middle East respiratory syndrome coronavirus. <i>Lancet Infectious Diseases</i> , 2019 , 19, 1053-1054	25.5	3
51	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	18.9	3
50	Identification of Candidate Circular RNAs Underlying Intramuscular Fat Content in the Donkey. <i>Frontiers in Genetics</i> , 2020 , 11, 587559	4.5	3
49	Evolution and transition of expression trajectory during human brain development. <i>BMC Evolutionary Biology</i> , 2020 , 20, 72	3	3
48	Nocturnal to diurnal transition in the common ancestor of haplorrhines: evidence from genomic-scan for positively selected genes. <i>Journal of Genetics and Genomics</i> , 2015 , 42, 33-7	4	3
47	Relaxed evolution in the tyrosine aminotransferase gene tat in old world fruit bats (Chiroptera: Pteropodidae). <i>PLoS ONE</i> , 2014 , 9, e97483	3.7	3
46	The motilin gene evolved a new function in kangaroo rats and kangaroo mice (Dipodomysinae). <i>Journal of Molecular Evolution</i> , 2012 , 75, 112-8	3.1	3
45	Host Adaptive Evolution of Avian-Origin H3N2 Canine Influenza Virus. <i>Frontiers in Microbiology</i> , 2021 , 12, 655228	5.7	3
44	Synergy between MC1R and ASIP for coat color in horses (<i>Equus caballus</i>) ¹ . <i>Journal of Animal Science</i> , 2019 , 97, 1578-1585	0.7	3
43	Evolution of the mammalian insulin (Ins) gene; Changes in proteolytic processing. <i>Peptides</i> , 2021 , 135, 170435	3.8	3
42	Comparative study of gut microbiota from captive and confiscated-rescued wild pangolins. <i>Journal of Genetics and Genomics</i> , 2021 , 48, 825-835	4	3
41	Evolution of conserved secondary structures and their function in transcriptional regulation networks. <i>BMC Genomics</i> , 2008 , 9, 520	4.5	2
40	A new canine distemper virus lineage identified from red pandas in China. <i>Transboundary and Emerging Diseases</i> , 2021 ,	4.2	2
39	Ambient Temperature is A Strong Selective Factor Influencing Human Development and Immunity. <i>Genomics, Proteomics and Bioinformatics</i> , 2020 , 18, 489-500	6.5	2
38	Origin and Evolution of H1N1/pdm2009: A Codon Usage Perspective. <i>Frontiers in Microbiology</i> , 2020 , 11, 1615	5.7	2
37	Unveiling the Biogeography and Potential Functions of the Intestinal Digesta- and Mucosa-Associated Microbiome of Donkeys. <i>Frontiers in Microbiology</i> , 2020 , 11, 596882	5.7	2
36	Evolution of the Insulin Gene: Changes in Gene Number, Sequence, and Processing. <i>Frontiers in Endocrinology</i> , 2021 , 12, 649255	5.7	2

35	Pathogenicity and transmissibility of a novel respirovirus isolated from a Malayan pangolin. <i>Journal of General Virology</i> , 2021 , 102,	4.9	2
34	Diverse phylogenomic datasets uncover a concordant scenario of laurasiatherian interordinal relationships. <i>Molecular Phylogenetics and Evolution</i> , 2021 , 157, 107065	4.1	2
33	Molecular evolution of GIP and Exendin and their receptors. <i>Peptides</i> , 2020 , 125, 170158	3.8	2
32	Differences in the gut microbiomes of dogs and wolves: roles of antibiotics and starch. <i>BMC Veterinary Research</i> , 2021 , 17, 112	2.7	2
31	Application of a TLR overexpression cell model in pyrogen detection. <i>Biotechnology and Bioengineering</i> , 2019 , 116, 1269-1279	4.9	1
30	Accelerated Evolution of Limb-Related Gene in the Common Ancestor of Cetaceans and Ruminants (Cetruminantia). <i>G3: Genes, Genomes, Genetics</i> , 2020 , 10, 515-524	3.2	1
29	Viral Hormones: Do They Impact Human Endocrinology?. <i>Endocrinology</i> , 2019 , 160, 2326-2327	4.8	1
28	Complete mtDNA genomes reveal similar penetrances of maternally inherited type 2 diabetes in two Chinese families. <i>Mitochondrial DNA</i> , 2016 , 27, 2040-4		1
27	Correction: Molecular evolution of the keratin associated protein gene family in mammals, role in the evolution of mammalian hair. <i>BMC Evolutionary Biology</i> , 2009 , 9, 213	3	1
26	A novel element regulates expression of the proximal human proglucagon promoter in islet cells. <i>General and Comparative Endocrinology</i> , 2007 , 151, 230-9	3	1
25	Proinsulin cDNAs from the leopard frog, <i>Rana pipiens</i> : evolution of proinsulin processing. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2000 , 125, 405-10	2.3	1
24	The prothrombin gene. <i>Pathophysiology of Haemostasis and Thrombosis: International Journal on Haemostasis and Thrombosis Research</i> , 1986 , 16, 227-38		1
23	Single-cell RNA-sequencing Reveals Thoracolumbar Vertebra Heterogeneity and Rib-genesis in Pigs. <i>Genomics, Proteomics and Bioinformatics</i> , 2021 , 19, 423-423	6.5	1
22	Evolutionary history of the brown rat: out of southern East Asia and selection		1
21	Convergent genomic signatures of high altitude adaptation among domestic mammals		1
20	Organization of the Genes Coding for Prothrombin and Factor X. <i>Protides of the Biological Fluids; Proceedings of the Colloquium</i> , 1985 , 33, 95-98		1
19	Two newly identified genotypes for African swine fever virus are incorrect. <i>Journal of Infection</i> , 2020 , 80, 469-496	18.9	1
18	Rare homologous recombination in H3N2 avian influenza A viruses. <i>Journal of Infection</i> , 2020 , 80, 350-371	18.9	1

17	Adaptive Evolution of Feline Coronavirus Genes Based on Selection Analysis. <i>BioMed Research International</i> , 2020 , 2020, 9089768	3	1
16	Pooled Sequencing Analysis of Geese () Reveals Genomic Variations Associated With Feather Color. <i>Frontiers in Genetics</i> , 2021 , 12, 650013	4.5	1
15	Whole Genome Sequencing Reveals Signatures for Artificial Selection for Different Sizes in Japanese Primitive Dog Breeds. <i>Frontiers in Genetics</i> , 2021 , 12, 671686	4.5	1
14	Variation in the Evolution and Sequences of Proglucagon and the Receptors for Proglucagon-Derived Peptides in Mammals. <i>Frontiers in Endocrinology</i> , 2021 , 12, 700066	5.7	1
13	A missense mutation in ASIP is associated with light point variation in donkeys. <i>Animal Genetics</i> , 2020 , 51, 629	2.5	1
12	The H7N9 viruses have lost most of their previous lineages in the fifth wave. <i>Journal of Infection</i> , 2018 , 76, 417-418	18.9	1
11	Mucosal Microbiota and Metabolome in the Ileum of Hu Sheep Offered a Low-Grain, Pelleted or Non-pelleted High-Grain Diet. <i>Frontiers in Microbiology</i> , 2021 , 12, 718884	5.7	1
10	Evolutionary perspectives and adaptation dynamics of human seasonal influenza viruses from 2009 to 2019: An insight from codon usage. <i>Infection, Genetics and Evolution</i> , 2021 , 96, 105067	4.5	1
9	Human-isolated H7N9 obtained internal genes from duck and human influenza viruses. <i>Journal of Infection</i> , 2019 , 78, 491-503	18.9	0
8	Hen raising helps chicks establish gut microbiota in their early life and improve microbiota stability after H9N2 challenge.. <i>Microbiome</i> , 2022 , 10, 14	16.6	0
7	A New World Monkey Resembles Human in Bitter Taste Receptor Evolution and Function via a Single Parallel Amino Acid Substitution. <i>Molecular Biology and Evolution</i> , 2021 , 38, 5472-5479	8.3	0
6	Construction of a sensitive pyrogen-testing cell model by site-specific knock-in of multiple genes. <i>Biotechnology and Bioengineering</i> , 2019 , 116, 2652-2661	4.9	
5	No gene communication of HA gene between the human H3N2 and H1N1 pandemic 2009 influenza A viruses. <i>Journal of Infection</i> , 2019 , 79, 174-187	18.9	
4	Evolution of the bovine lysozyme gene family: Changes in gene expression and reversion of function. <i>Journal of Molecular Evolution</i> , 1995 , 41, 299	3.1	
3	Two steps easier than one?. <i>Current Biology</i> , 1993 , 3, 907-9	6.3	
2	Viral Insulin/IGF-1-Like Peptides: Novel Regulators of Physiology and Pathophysiology?. <i>Endocrinology</i> , 2018 , 159, 3659-3660	4.8	
1	Adaptive Evolution of the Fox Coronavirus Based on Genome-Wide Sequence Analysis.. <i>BioMed Research International</i> , 2022 , 2022, 9627961	3	