

Liangbiao Chen

List of Publications by Year in descending order

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54
papers

2,143
citations

236925

25
h-index

233421

45
g-index

54
all docs

54
docs citations

54
times ranked

2581
citing authors

#	ARTICLE	IF	CITATIONS
1	Transcriptomic and genomic evolution under constant cold in Antarctic notothenioid fish. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 12944-12949.	7.1	243
2	Evolution of an antifreeze glycoprotein. Nature, 1999, 401, 443-444.	27.8	217
3	Molecular classification of cancer types from microarray data using the combination of genetic algorithms and support vector machines. FEBS Letters, 2003, 555, 358-362.	2.8	173
4	Multiclass cancer classification and biomarker discovery using GA-based algorithms. Bioinformatics, 2005, 21, 2691-2697.	4.1	171
5	Evolution of an antifreeze protein by neofunctionalization under escape from adaptive conflict. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21593-21598.	7.1	126
6	Differentiation of human embryonic stem cells into smooth muscle cells in adherent monolayer culture. Biochemical and Biophysical Research Communications, 2006, 351, 321-327.	2.1	87
7	Functional Antifreeze Glycoprotein Genes in Temperate-Water New Zealand Nototheniid Fish Infer an Antarctic Evolutionary Origin. Molecular Biology and Evolution, 2003, 20, 1897-1908.	8.9	81
8	A Comparison of Murine Smooth Muscle Cells Generated from Embryonic versus Induced Pluripotent Stem Cells. Stem Cells and Development, 2009, 18, 741-748.	2.1	76
9	Analysis of hypoxia-inducible factor alpha polyploidization reveals adaptation to Tibetan plateau in the evolution of schizothoracine fish. BMC Evolutionary Biology, 2014, 14, 192.	3.2	73
10	Transcriptomic responses to low temperature stress in the Nile tilapia, <i>Oreochromis niloticus</i> . Fish and Shellfish Immunology, 2019, 84, 1145-1156.	3.6	73
11	Adaptive Evolution of Hecpudin Genes in Antarctic Notothenioid Fishes. Molecular Biology and Evolution, 2008, 25, 1099-1112.	8.9	67
12	Transcriptome comparison reveals a genetic network regulating the lower temperature limit in fish. Scientific Reports, 2016, 6, 28952.	3.3	66
13	The genomic basis for colonizing the freezing Southern Ocean revealed by Antarctic toothfish and Patagonian robalo genomes. GigaScience, 2019, 8, .	6.4	47
14	Analysis of the erythropoietin of a Tibetan Plateau schizothoracine fish (<i>Gymnocypris dobula</i>) reveals enhanced cytoprotection function in hypoxic environments. BMC Evolutionary Biology, 2016, 16, 11.	3.2	44
15	Global identification of the genetic networks and <i>cis</i> -regulatory elements of the cold response in zebrafish. Nucleic Acids Research, 2015, 43, 9198-9213.	14.5	38
16	Proteomic Analyses Reveal Common Promiscuous Patterns of Cell Surface Proteins on Human Embryonic Stem Cells and Sperms. PLoS ONE, 2011, 6, e19386.	2.5	37
17	MicroRNA-mediated gene regulation plays a minor role in the transcriptomic plasticity of cold-acclimated Zebrafish brain tissue. BMC Genomics, 2011, 12, 605.	2.8	35
18	Neofunctionalization of zona pellucida proteins enhances freeze-prevention in the eggs of Antarctic notothenioids. Nature Communications, 2016, 7, 12987.	12.8	33

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19	Global Expression of Cell Surface Proteins in Embryonic Stem Cells. PLoS ONE, 2010, 5, e15795.	2.5	33
20	Upstream sequencing and functional characterization of the human cholinergic gene locus. Journal of Molecular Neuroscience, 1997, 9, 223-236.	2.3	31
21	Genetic Adaptation of Schizothoracine Fish to the Phased Uplifting of the Qinghaiâ€“Tibetan Plateau. G3: Genes, Genomes, Genetics, 2017, 7, 1267-1276.	1.8	29
22	The over-expression of calmodulin from Antarctic notothenioid fish increases cold tolerance in tobacco. Gene, 2013, 521, 32-37.	2.2	27
23	Evolutionary suppression of erythropoiesis via the modulation of <scp>TGF</scp> signalling in an Antarctic icefish. Molecular Ecology, 2015, 24, 4664-4678.	3.9	27
24	Multi-class cancer classification through gene expression profiles: microRNA versus mRNA. Journal of Genetics and Genomics, 2009, 36, 409-416.	3.9	26
25	Derivation of multipotent nestin+/CD271 ⁺ /STRO-1 ⁺ mesenchymal-like precursors from human embryonic stem cells in chemically defined conditions. Human Cell, 2013, 26, 19-27.	2.7	26
26	miR-888 in MCF-7 Side Population Sphere Cells Directly Targets E-cadherin. Journal of Genetics and Genomics, 2014, 41, 35-42.	3.9	24
27	Transcriptomic and epigenomic alterations of Nile tilapia gonads sexually reversed by high temperature. Aquaculture, 2019, 508, 167-177.	3.5	24
28	Characterization of microRNAs in cephalochordates reveals a correlation between microRNA repertoire homology and morphological similarity in chordate evolution. Evolution & Development, 2009, 11, 41-49.	2.0	23
29	Aire regulates the expression of differentiation-associated genes and self-renewal of embryonic stem cells. Biochemical and Biophysical Research Communications, 2010, 394, 418-423.	2.1	22
30	From the cholinergic gene locus to the cholinergic neuron. Journal of Physiology (Paris), 1998, 92, 385-388.	2.1	18
31	GO-Diff: mining functional differentiation between EST-based transcriptomes. BMC Bioinformatics, 2006, 7, 72.	2.6	16
32	miR-888 regulates side population properties and cancer metastasis in breast cancer cells. Biochemical and Biophysical Research Communications, 2014, 450, 1234-1240.	2.1	15
33	Loss of Gsdf leads to a dysregulation of Igf2bp3-mediated oocyte development in medaka. General and Comparative Endocrinology, 2019, 277, 122-129.	1.8	13
34	Cold-induced retrotransposition of fish LINES. Journal of Genetics and Genomics, 2017, 44, 385-394.	3.9	12
35	GC bias lead to increased small amino acids and random coils of proteins in cold-water fishes. BMC Genomics, 2018, 19, 315.	2.8	12
36	Spatiotemporal control of zebrafish (Danio rerio) gene expression using a light-activated CRISPR activation system. Gene, 2018, 677, 273-279.	2.2	11

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37	Toll-Like Receptor Evolution: Does Temperature Matter?. <i>Frontiers in Immunology</i> , 2022, 13, 812890.	4.8	9
38	Hypoxia-inducible factor 1 β from a high-altitude fish enhances cytoprotection and elevates nitric oxide production in hypoxic environment. <i>Fish Physiology and Biochemistry</i> , 2020, 46, 39-49.	2.3	7
39	Expression of multi-domain type III antifreeze proteins from the Antarctic eelpout (<i>Lycodichthys Tj ETQq1</i> 1 0.784314 rgBT /Overlock 186-191.	2.2	6
40	Wnt Signaling Modulates Routes of Retinoic Acid-Induced Differentiation of Embryonic Stem Cells. <i>Stem Cells and Development</i> , 2019, 28, 1334-1345.	2.1	5
41	A Potential Role for the Gsd β “eEF1 β Complex in Inhibiting Germ Cell Proliferation: A Protein-Interaction Analysis in Medaka (<i>Oryzias latipes</i>) From a Proteomics Perspective. <i>Molecular and Cellular Proteomics</i> , 2021, 20, 100023.	3.8	5
42	The role of <i>dusp1</i> downregulation in apoptosis of zebrafish ZF4 cells under cold stress. <i>Journal of Fishery Sciences of China</i> , 2017, 24, 995.	0.2	5
43	Tissue-Specific and Differential Cold Responses in the Domesticated Cold Tolerant Fugu. <i>Fishes</i> , 2022, 7, 159.	1.7	5
44	Cell Surface Proteomics Analysis Indicates a Neural Lineage Bias of Rat Bone Marrow Mesenchymal Stromal Cells. <i>BioMed Research International</i> , 2014, 2014, 1-13.	1.9	4
45	Divergent adaptation to Qinghai-Tibetan Plateau implicated from transcriptome study of <i>Gymnocypris dobula</i> and <i>Schizothorax nukiangensis</i> . <i>Biochemical Systematics and Ecology</i> , 2017, 71, 97-105.	1.3	4
46	A gene family-based method for interspecies comparisons of sequencing-based transcriptomes and its use in environmental adaptation analysis. <i>Journal of Genetics and Genomics</i> , 2010, 37, 205-218.	3.9	3
47	Molecular and morphological changes in Nile tilapia (<i>Oreochromis niloticus</i>) gonads during high-temperature-induced masculinization. <i>Aquaculture Research</i> , 2022, 53, 921-931.	1.8	3
48	Identification of Antibacterial Activity of Hecpidin From Antarctic Notothenioid Fish. <i>Frontiers in Microbiology</i> , 2022, 13, 834477.	3.5	3
49	Transcriptomic Down-Regulation of Immune System Components in Barrier and Hematopoietic Tissues after Lipopolysaccharide Injection in Antarctic <i>Notothenia coriiceps</i> . <i>Fishes</i> , 2022, 7, 171.	1.7	3
50	Trehalose as a good candidate for enriching full-length cDNAs in cDNA library construction. <i>Journal of Biotechnology</i> , 2007, 127, 402-407.	3.8	2
51	Derivation, characterization and differentiation of a new human embryonic stem cell line from a Chinese hatched blastocyst assisted by a non-contact laser system. <i>Human Cell</i> , 2010, 23, 89-102.	2.7	2
52	Leptin Gene Protects Against Cold Stress in Antarctic Toothfish. <i>Frontiers in Physiology</i> , 2021, 12, 740806.	2.8	1
53	Complete mitochondrial genome of the Antarctic crocodile icefish, <i>Chionodraco hamatus</i> (Perciformes: Channichthyidae). <i>Mitochondrial DNA Part B: Resources</i> , 2016, 1, 138-139.	0.4	0
54	High-speed rail model reveals the gene tandem amplification mediated by short repeated sequence in eukaryote. <i>Scientific Reports</i> , 2022, 12, 2289.	3.3	0