Yichi Zhang

List of Publications by Year
in descending order

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492 papers	14,508 citations	34105 52 h-index	42399 92 g-index
503 all docs	503 docs citations	503 times ranked	9491 citing authors

#	Article	IF	Citations
1	Metabolic Rate Depression and Biochemical Adaptation in Anaerobiosis, Hibernation and Estivation. Quarterly Review of Biology, 1990, 65, 145-174.	0.1	582
2	Metabolic rate depression in animals: transcriptional and translational controls. Biological Reviews, 2004, 79, 207-233.	10.4	524
3	Mitogen-activated protein kinases: new signaling pathways functioning in cellular responses to environmental stress. Journal of Experimental Biology, 2003, 206, 1107-1115.	1.7	501
4	The promise of organ and tissue preservation to transform medicine. Nature Biotechnology, 2017, 35, 530-542.	17.5	371
5	Tribute to P. L. Lutz: putting life on `pause' â€“ molecular regulation of hypometabolism. Journal of Experimental Biology, 2007, 210, 1700-1714.	1.7	239
6	Whole genome analysis of a schistosomiasis-transmitting freshwater snail. Nature Communications, 2017, 8, 15451.	12.8	216
7	Pesticide toxicity: a mechanistic approach. EXCLI Journal, 2018, 17, 1101-1136.	0.7	214
8	NATURAL FREEZING SURVIVAL IN ANIMALS. Annual Review of Ecology, Evolution, and Systematics, 1996, 27, 365-386.	6.7	206
9	The sea cucumber genome provides insights into morphological evolution and visceral regeneration. PLoS Biology, 2017, 15, e2003790.	5.6	202
10	Life in the slow lane: molecular mechanisms of estivation. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2002, 133, 733-754.	1.8	196
11	Biochemical adaption for freezing tolerance in the wood frog,Rana sylvatica. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1984, 155, 29-36.	1.5	183
12	Out Cold: Biochemical Regulation of Mammalian Hibernation â€“ A Mini-Review. Gerontology, 2010, 56, 220-230.	2.8	159
13	Molecular Physiology of Freeze Tolerance in Vertebrates. Physiological Reviews, 2017, 97, 623-665.	28.8	154
14	Molecular Biology of Freezing Tolerance. , 2013, 3, 1283-1308.		142
15	Intermediary metabolism during low temperature acclimation in the overwintering gall fly larva,Eurosta solidaginis. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1981, 144, 183-190.	1.5	134
16	Regulation of hypometabolism: insights into epigenetic controls. Journal of Experimental Biology, 2015, 218, 150-159.	1.7	130
17	Regulation of Ground Squirrel Na+K+-ATPase Activity by Reversible Phosphorylation during Hibernation. Biochemical and Biophysical Research Communications, 1999, 254, 424-429.	2.1	125
18	Anoxia tolerance in turtles: Metabolic regulation and gene expression. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2007, 147, 263-276.	1.8	121

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19	Aestivation: signaling and hypometabolism. Journal of Experimental Biology, 2012, 215, 1425-1433.	1.7	117
20	Metabolic adaptations supporting anoxia tolerance in reptiles: Recent advances. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 1996, 113, 23-35.	1.6	111
21	Freeze tolerant frogs: cryoprotectants and tissue metabolism during freezeâ€“thaw cycles. Canadian Journal of Zoology, 1986, 64, 49-56.	1.0	110
22	Reptile freeze tolerance: Metabolism and gene expression. Cryobiology, 2006, 52, 1-16.	0.7	108
23	The emerging roles of microRNAs in the molecular responses of metabolic rate depression. Journal of Molecular Cell Biology, 2011, 3, 167-175.	3.3	104
24	Triggering of cryoprotectant synthesis by the initiation of ice nucleation in the freeze tolerant frog,Rana sylvatica. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1985, 156, 191-195.	1.5	102
25	Strategies for exploration of freeze responsive gene expression: advances in vertebrate freeze tolerance. Cryobiology, 2004, 48, 134-145.	0.7	99
26	Evidence for a reduced transcriptional state during hibernation in ground squirrels. Cryobiology, 2006, 53, 310-318.	0.7	95
27	Twenty years of the â€˜Preparation for Oxidative Stressâ€™ (POS) theory: Ecophysiological advantages and molecular strategies. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2019, 234, 36-49.	1.8	88
28	Metformin as a geroprotector: experimental and clinical evidence. Biogerontology, 2019, 20, 33-48.	3.9	88
29	Induction of synthesis of an antimicrobial peptide in the skin of the freeze-tolerant frog,Rana sylvatica, in response to environmental stimuli. FEBS Letters, 2000, 483, 135-138.	2.8	86
30	Biochemical strategies of overwintering in the gall gly larva,Eurosta solidaginis: Effect of low temperature acclimation on the activities of enzymes of intermediary metabolism. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1981, 144, 191-199.	1.5	80
31	Purification and properties of aerobic and anoxic forms of pyruvate kinase from red muscle tissue of the channelled whelk, Busycotypus canaliculatum. FEBS Journal, 1984, 143, 257-265.	0.2	75
32	Evidence for cell cycle suppression and microRNA regulation of cyclin D1 during anoxia exposure in turtles. Cell Cycle, 2012, 11, 1705-1713.	2.6	75
33	Real-time measurement of metabolic rate during freezing and thawing of the wood frog, Rana sylvatica: implications for overwinter energy use. Journal of Experimental Biology, 2013, 216, 292-302.	1.7	75
34	Gene Up-Regulation in Heart during Mammalian Hibernation. Cryobiology, 2000, 40, 332-342.	0.7	74
35	Expression of Nrf2 and its downstream gene targets in hibernating 13-lined ground squirrels, Spermophilus tridecemlineatus. Molecular and Cellular Biochemistry, 2008, 312, 121-129.	3.1	74
36	Insulin-Like Peptides Regulate Feeding Preference and Metabolism in Drosophila. Frontiers in Physiology, 2018, 9, 1083.	2.8	72

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37	Molecular Adaptations for Sensing and Securing Prey and Insight into Amniote Genome Diversity from the Garter Snake Genome. Genome Biology and Evolution, 2018, 10, 2110-2129.	2.5	72
38	Regulation of the mTOR signaling network in hibernating thirteen-lined ground squirrels. Journal of Experimental Biology, 2012, 215, 1720-1727.	1.7	70
39	Phosphorylation in vivo of red-muscle pyruvate kinase from the channelled whelk, Busycotypus canaliculatum, in response to anoxic stress. FEBS Journal, 1984, 143, 267-272.	0.2	69
40	Anti-apoptotic signaling as a cytoprotective mechanism in mammalian hibernation. PeerJ, 2013, 1, e29.	2.0	69
41	Role of antioxidant defenses in the tolerance of severe dehydration by anurans. The case of the leopard frog Rana pipiens. , 1998, 189, 79-89.		68
42	Metabolic adjustments during daily torpor in the Djungarian hamster. American Journal of Physiology - Endocrinology and Metabolism, 1999, 276, E896-E906.	3.5	67
43	Mechanisms of glycolytic control during hibernation in the ground squirrel Spermophilus lateralis. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1992, 162, 23.	1.5	66
44	RBioplot: an easy-to-use R pipeline for automated statistical analysis and data visualization in molecular biology and biochemistry. PeerJ, 2016, 4, e2436.	2.0	66
45	The role of the TOR pathway in mediating the link between nutrition and longevity. Mechanisms of Ageing and Development, 2017, 164, 127-138.	4.6	64
46	Insight into post-transcriptional gene regulation: stress-responsive microRNAs and their role in the environmental stress survival of tolerant animals. Journal of Experimental Biology, 2015, 218, 1281-1289.	1.7	63
47	MicroRNA Regulation in Extreme Environments: Differential Expression of MicroRNAs in the Intertidal Snail Littorina littorea During Extended Periods of Freezing and Anoxia. Genomics, Proteomics and Bioinformatics, 2012, 10, 302-309.	6.9	62
48	The naked truth: a comprehensive clarification and classification of current â€˜mythsâ€™ in naked moleâ€rat biology. Biological Reviews, 2022, 97, 115-140.	10.4	62
49	Differential expression of mitochondria-encoded genes in a hibernating mammal. Journal of Experimental Biology, 2002, 205, 1625-1631.	1.7	62
50	Pattern of cellular quiescence over the hibernation cycle in liver of thirteen-lined ground squirrels. Cell Cycle, 2012, 11, 1714-1726.	2.6	59
51	Functional impact of microRNA regulation in models of extreme stress adaptation. Journal of Molecular Cell Biology, 2018, 10, 93-101.	3.3	58
52	Metabolic rate depression: the biochemistry of mammalian hibernation. Advances in Clinical Chemistry, 2010, 52, 77-108.	3.7	58
53	Regulation of the heat shock response under anoxia in the turtle, Trachemys scripta elegans. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2010, 180, 403-414.	1.5	56
54	Molecular insights into land snail neuropeptides through transcriptome and comparative gene analysis. BMC Genomics, 2015, 16, 308.	2.8	56

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55	Glycolysis and the regulation of cryoprotectant synthesis in liver of the freeze tolerant wood frog. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1987, 157, 373-380.	1.5	55
56	Antioxidant defense in hibernation: Cloning and expression of peroxiredoxins from hibernating ground squirrels, Spermophilus tridecemlineatus. Archives of Biochemistry and Biophysics, 2007, 461, 59-65.	3.0	55
57	Anoxia-Induced Gene Expression in Turtle Heart. Upregulation of Mitochondrial Genes for NADH-Ubiquinone Oxidoreductase Subunit 5 and Cytochrome c Oxidase Subunit 1. FEBS Journal, 1996, 241, 83-92.	0.2	54
58	Activation of mitogen-activated protein kinases during natural freezing and thawing in the wood frog. , 2000, 209, 29-37.		53
59	Cloning and expression of hypoxia-inducible factor 1Î± from the hibernating ground squirrel, Spermophilus tridecemlineatus. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 2005, 1729, 32-40.	2.4	53
60	Life in the cold: links between mammalian hibernation and longevity. Biomolecular Concepts, 2016, 7, 41-52.	2.2	53
61	Ice nucleating activity in the blood of the freeze-tolerant frog, Rana sylvatica. Cryobiology, 1990, 27, 328-335.	0.7	52
62	Transcriptional regulation of antioxidant enzymes by FoxO1 under dehydration stress. Gene, 2011, 485, 114-119.	2.2	52
63	The Dynamic Nature of DNA Methylation: A Role in Response to Social and Seasonal Variation. Integrative and Comparative Biology, 2014, 54, 68-76.	2.0	52
64	Metabolic Regulation and Gene Expression During Aestivation. Progress in Molecular and Subcellular Biology, 2010, 49, 25-45.	1.6	51
65	Cell cycle regulation in the freeze tolerant wood frog,Rana sylvatica. Cell Cycle, 2012, 11, 1727-1742.	2.6	51
66	Dynamic changes in global and gene specific DNA methylation during hibernation in adult thirteen-lined ground squirrels, Ictidomys tridecemlineatus. Journal of Experimental Biology, 2015, 218, 1787-95.	1.7	51
67	Expression of myocyte enhancer factor-2 and downstream genes in ground squirrel skeletal muscle during hibernation. Molecular and Cellular Biochemistry, 2010, 344, 151-162.	3.1	50
68	The complete mitochondrial genomes of four cockroaches (Insecta: Blattodea) and phylogenetic analyses within cockroaches. Gene, 2016, 586, 115-122.	2.2	50
69	Glycolytic enzyme binding and metabolic control in anaerobiosis. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1986, 156, 635-640.	1.5	48
70	Mitogen-activated protein kinases and selected downstream targets display organ-specific responses in the hibernating ground squirrel. International Journal of Biochemistry and Cell Biology, 2005, 37, 679-691.	2.8	47
71	Glycolytic Enzyme Binding and Metabolic Control in Estivation and Anoxia in the Land Snail Otala Lactea. Journal of Experimental Biology, 1990, 151, 193-204.	1.7	47
72	Second messenger and cAMP-dependent protein kinase responses to dehydration and anoxia stresses in frogs. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1997, 167, 305-312.	1.5	46

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73	Stress-induced activation of the AMP-activated protein kinase in the freeze-tolerant frog Rana sylvatica. Cryobiology, 2006, 53, 297-309.	0.7	46
74	Activation of antioxidant defense during dehydration stress in the African clawed frog. Gene, 2009, 442, 99-107.	2.2	46
75	Epigenetics in anoxia tolerance: a role for histone deacetylases. Molecular and Cellular Biochemistry, 2010, 342, 151-161.	3.1	46
76	Molecular mechanisms of turtle anoxia tolerance: A role for NF-ÎºB. Gene, 2010, 450, 63-69.	2.2	46
77	Mitogen-activated protein kinases and anoxia tolerance in turtles. The Journal of Experimental Zoology, 2000, 287, 477-484.	1.4	45
78	Up-regulation of the endoplasmic reticulum molecular chaperone GRP78 during hibernation in thirteen-lined ground squirrels. Molecular and Cellular Biochemistry, 2006, 292, 89-98.	3.1	45
79	Metabolic suppression during protracted exposure to hypoxia in the jumbo squid,Dosidicus gigas, living in an oxygen minimum zone. Journal of Experimental Biology, 2014, 217, 2555-68.	1.7	45
80	Gene characteristics of the complete mitochondrial genomes of Paratoxodera polyacantha and Toxodera hauseri (Mantodea: Toxoderidae). PeerJ, 2018, 6, e4595.	2.0	45
81	Upregulation of a novel gene by freezing exposure in the freeze-tolerant wood frog (Rana sylvatica). Gene, 1997, 198, 305-312.	2.2	43
82	Dehydration mediated microRNA response in the African clawed frog Xenopus laevis. Gene, 2013, 529, 269-275.	2.2	43
83	Regulation of p53 by reversible post-transcriptional and post-translational mechanisms in liver and skeletal muscle of an anoxia tolerant turtle, Trachemys scripta elegans. Gene, 2013, 513, 147-155.	2.2	43
84	High-throughput amplification of mature microRNAs in uncharacterized animal models using polyadenylated RNA and stemâ€“loop reverse transcription polymerase chain reaction. Analytical Biochemistry, 2014, 462, 32-34.	2.4	43
85	Global DNA modifications suppress transcription in brown adipose tissue during hibernation. Cryobiology, 2014, 69, 333-338.	0.7	43
86	Higher tRNA gene duplication in mitogenomes of praying mantises (Dictyoptera, Mantodea) and the phylogeny within Mantodea. International Journal of Biological Macromolecules, 2018, 111, 787-795.	7.5	42
87	Urea and salt effects on enzymes from estivating and non-estivating amphibians. Molecular and Cellular Biochemistry, 1994, 131, 9-17.	3.1	41
88	The hibernating South American marsupial, Dromiciops gliroides, displays torpor-sensitive microRNA expression patterns. Scientific Reports, 2016, 6, 24627.	3.3	41
89	The hypoxia tolerance of eight related African moleâ€rat species rivals that of naked moleâ€rats, despite divergent ventilatory and metabolic strategies in severe hypoxia. Acta Physiologica, 2020, 228, e13436.	3.8	41
90	The Torpid State: Recent Advances in Metabolic Adaptations and Protective Mechanismsâ€. Frontiers in Physiology, 2020, 11, 623665.	2.8	41

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91	Tissue specific isozymes of pyruvate kinase in the channelled whelkBusycotypus canaliculatum: enzyme modification in response to environmental anoxia. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1985, 155, 291-296.	1.5	40
92	Real-time protein unfolding: a method for determining the kinetics of native protein denaturation using a quantitative real-time thermocycler. BioTechniques, 2012, 53, 231-238.	1.8	40
93	Identification and expression of microRNA in the brain of hibernating bats, Myotis lucifugus. Gene, 2014, 544, 67-74.	2.2	40
94	Large-scale identification and comparative analysis of miRNA expression profile in the respiratory tree of the sea cucumber Apostichopus japonicus during aestivation. Marine Genomics, 2014, 13, 39-44.	1.1	40
95	Turtle anoxia tolerance: Biochemistry and gene regulation. Biochimica Et Biophysica Acta - General Subjects, 2015, 1850, 1188-1196.	2.4	40
96	Mammalian hibernation. Transcriptional and translational controls. Advances in Experimental Medicine and Biology, 2003, 543, 21-38.	1.6	40
97	The impact of cold acclimation and hibernation on antioxidant defenses in the ground squirrel (Spermophilus citellus): An update. Free Radical Biology and Medicine, 2013, 65, 916-924.	2.9	39
98	Drosophila insulinâ€like peptides: from expression to functions â€“ a review. Entomologia Experimentalis Et Applicata, 2021, 169, 195-208.	1.4	39
99	Activation of extracellular signal-regulated kinases during dehydration in the African clawed frog, Xenopus laevis. Journal of Experimental Biology, 2009, 212, 2595-2603.	1.7	38
100	Akt signaling and freezing survival in the wood frog, Rana sylvatica. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 4828-4837.	2.4	38
101	Anti-apoptotic response during anoxia and recovery in a freeze-tolerant wood frog (Rana) Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.0	38
102	Freezing and cellular metabolism in the gall fly larva,Eurosta solidaginis. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1985, 155, 333-337.	1.5	37
103	Free-radical first responders: The characterization of CuZnSOD and MnSOD regulation during freezing of the freeze-tolerant North American wood frog, Rana sylvatica. Biochimica Et Biophysica Acta - General Subjects, 2015, 1850, 97-106.	2.4	37
104	Identification and characterization of a novel freezingâ€inducible gene, li16, in the wood frog Rana sylvatica. FASEB Journal, 2002, 16, 902-904.	0.5	36
105	Expression Profiling and Structural Characterization of MicroRNAs in Adipose Tissues of Hibernating Ground Squirrels. Genomics, Proteomics and Bioinformatics, 2014, 12, 284-291.	6.9	36
106	Differential gene expression in the respiratory tree of the sea cucumber Apostichopus japonicus during aestivation. Marine Genomics, 2014, 18, 173-183.	1.1	36
107	Identification and profiling of miRNAs in the freeze-avoiding gall moth Epiblema scudderiana via next-generation sequencing. Molecular and Cellular Biochemistry, 2015, 410, 155-163.	3.1	36
108	Induction of Antioxidant and Heat Shock Protein Responses During Torpor in the Gray Mouse Lemur, Microcebus murinus. Genomics, Proteomics and Bioinformatics, 2015, 13, 119-126.	6.9	36

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109	Adaptations to the mudflat: Insights from physiological and transcriptional responses to thermal stress in a burrowing bivalve Sinonovacula constricta. Science of the Total Environment, 2020, 710, 136280.	8.0	36
110	Evidence for phosphorylation/dephosphorylation control of phosphofructokinase from organs of the Anoxia-Tolerant sea musselMytilus edulis. The Journal of Experimental Zoology, 1991, 257, 1-9.	1.4	35
111	Histopathological and biochemical changes in goldfish kidney due to exposure to the herbicide Sencor may be related to induction of oxidative stress. Aquatic Toxicology, 2014, 155, 181-189.	4.0	35
112	Complete mitochondrial genomes of Nanorana taihangnica and N. yunnanensis (Anura:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Td (D Evolutionary Biology, 2018, 18, 26.	3.2	35
113	Metabolic mechanisms for anoxia tolerance and freezing survival in the intertidal gastropod, Littorina littorea. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2013, 165, 448-459.	1.8	34
114	Characterization of the SIRT family of NAD+-dependent protein deacetylases in the context of a mammalian model of hibernation, the thirteen-lined ground squirrel. Cryobiology, 2015, 71, 334-343.	0.7	34
115	A hydrogen peroxide safety valve: The reversible phosphorylation of catalase from the freeze-tolerant North American wood frog, Rana sylvatica. Biochimica Et Biophysica Acta - General Subjects, 2016, 1860, 476-485.	2.4	34
116	Metabolic reprogramming involving glycolysis in the hibernating brown bear skeletal muscle. Frontiers in Zoology, 2019, 16, 12.	2.0	34
117	DNA methylation levels analysis in four tissues of sea cucumber Apostichopus japonicus based on fluorescence-labeled methylation-sensitive amplified polymorphism (F-MSAP) during aestivation. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2015, 181, 26-32.	1.6	33
118	Characterization of cold-associated microRNAs in the freeze-tolerant gall fly Eurosta solidaginis using high-throughput sequencing. Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, 2016, 20, 95-100.	1.0	33
119	Micromanaging freeze tolerance: the biogenesis and regulation of neuroprotective microRNAs in frozen brains. Cellular and Molecular Life Sciences, 2018, 75, 3635-3647.	5.4	33
120	The complete mitochondrial genomes of five longicorn beetles (Coleoptera: Cerambycidae) and phylogenetic relationships within Cerambycidae. PeerJ, 2019, 7, e7633.	2.0	33
121	Freeze-Thaw Effects on Metabolic Enzymes in Wood Frog Organs. Cryobiology, 2001, 43, 32-45.	0.7	32
122	Metabolic reorganization and signal transduction during estivation in the spadefoot toad. Experimental Biology Online, 2000, 5, 1-25.	1.0	31
123	Adventures in oxygen metabolism. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2004, 139, 359-369.	1.6	31
124	Regulation of hexokinase by reversible phosphorylation in skeletal muscle of a freeze-tolerant frog. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2011, 159, 236-243.	1.6	31
125	Alpha-ketoglutarate attenuates toxic effects of sodium nitroprusside and hydrogen peroxide in Drosophila melanogaster. Environmental Toxicology and Pharmacology, 2015, 40, 650-659.	4.0	31
126	Analysis of microRNA expression during the torpor-arousal cycle of a mammalian hibernator, the 13-lined ground squirrel. Physiological Genomics, 2016, 48, 388-396.	2.3	31

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127	Novel control of lactate dehydrogenase from the freeze tolerant wood frog: role of posttranslational modifications. PeerJ, 2013, 1, e12.	2.0	31
128	cGMP-stimulated protein kinase phosphorylates pyruvate kinase in an anoxia-tolerant marine mollusc. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1990, 160, 309-316.	1.5	30
129	Regulation of liver lactate dehydrogenase by reversible phosphorylation in response to anoxia in a freshwater turtle. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2012, 163, 221-228.	1.6	30
130	Myocyte enhancer factor-2 and cardiac muscle gene expression during hibernation in thirteen-lined ground squirrels. Gene, 2012, 501, 8-16.	2.2	30
131	FoxO3a-mediated activation of stress responsive genes during early torpor in a mammalian hibernator. Molecular and Cellular Biochemistry, 2014, 390, 185-195.	3.1	30
132	Primate Torpor: Regulation of Stress-activated Protein Kinases During Daily Torpor in the Gray Mouse Lemur, Microcebus murinus. Genomics, Proteomics and Bioinformatics, 2015, 13, 81-90.	6.9	30
133	Dynamic regulation of six histone H3 lysine (K) methyltransferases in response to prolonged anoxia exposure in a freshwater turtle. Gene, 2018, 649, 50-57.	2.2	30
134	Reversible phosphorylation control of skeletal muscle pyruvate kinase and phosphofructokinase during estivation in the spadefoot toad, Scaphiopus couchii. , 1999, 195, 173-181.		29
135	A framework for improving microRNA prediction in non-human genomes. Nucleic Acids Research, 2015, 43, gkv698.	14.5	29
136	Regulation of the PI3K/AKT Pathway and Fuel Utilization During Primate Torpor in the Gray Mouse Lemur, Microcebus murinus. Genomics, Proteomics and Bioinformatics, 2015, 13, 91-102.	6.9	29
137	The role of DNA methylation during anoxia tolerance in a freshwater turtle (Trachemys scripta) Tj ETQq1 1 0.784314 rgBT /Overlock 1 2016, 186, 333-342.	1.5	29
138	Proteolysis inhibition by hibernating bear serum leads to increased protein content in human muscle cells. Scientific Reports, 2018, 8, 5525.	3.3	29
139	Neuropeptide precursors and neuropeptides in the sea cucumber Apostichopus japonicus: a genomic, transcriptomic and proteomic analysis. Scientific Reports, 2019, 9, 8829.	3.3	29
140	Metabolic consequences of exercise in organs of rainbow trout. The Journal of Experimental Zoology, 1991, 260, 157-164.	1.4	28
141	Transcription pattern of ribosomal protein L26 during anoxia exposure inLittorina littorea. The Journal of Experimental Zoology, 2001, 290, 759-768.	1.4	28
142	RNA-seq dependent transcriptional analysis unveils gene expression profile in the intestine of sea cucumber Apostichopus japonicus during aestivation. Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, 2014, 10, 30-43.	1.0	28
143	Lowâ€temperature microRNA expression in the painted turtle, Chrysemys picta during freezing stress. FEBS Letters, 2015, 589, 3665-3670.	2.8	28
144	MicroRNA regulation in heart and skeletal muscle over the freezeâ€“thaw cycle in the freeze tolerant wood frog. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2016, 186, 229-241.	1.5	28

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145	Metabolic response of longitudinal muscles to acute hypoxia in sea cucumber Apostichopus japonicus (Selenka): A metabolome integrated analysis. Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, 2019, 29, 235-244.	1.0	28
146	Implications of amino acid sensing and dietary protein to the aging process. Experimental Gerontology, 2019, 115, 69-78.	2.8	28
147	Glycolytic and Associated Enzymes of Rainbow Trout (Oncorhynchus Mykiss) Red Cells: In Vitro And In Vivo Studies. Journal of Experimental Biology, 1991, 155, 469-485.	1.7	28
148	Cold Ischemic Organ Preservation: Lessons from Natural Systems. Journal of Investigative Medicine, 2004, 52, 315-322.	1.6	27
149	Twist2 amplification in rhabdomyosarcoma represses myogenesis and promotes oncogenesis by redirecting MyoD DNA binding. Genes and Development, 2019, 33, 626-640.	5.9	27
150	Comparative phosphoproteomic analysis of intestinal phosphorylated proteins in active versus aestivating sea cucumbers. Journal of Proteomics, 2016, 135, 141-150.	2.4	26
151	Acute exposure to the penconazole-containing fungicide Topas partially augments antioxidant potential in goldfish tissues. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2017, 193, 1-8.	2.6	26
152	31P-NMR studies of the freeze-tolerant larvae of the gall fly, Eurosta solidaginis. FEBS Journal, 1984, 142, 591-595.	0.2	25
153	Purification and characterization of a urea sensitive lactate dehydrogenase from the liver of the African clawed frog, Xenopus laevis. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2014, 184, 601-611.	1.5	25
154	A â€œLoveâ€•Dart Allohormone Identified in the Mucous Glands of Hermaphroditic Land Snails. Journal of Biological Chemistry, 2016, 291, 7938-7950.	3.4	25
155	Regulation of pyruvate dehydrogenase (PDH) in the hibernating ground squirrel, (Ictidomys) Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.5	25
156	Interplay between diet-induced obesity and oxidative stress: Comparison between Drosophila and mammals. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2019, 228, 18-28.	1.8	25
157	LIVING IN THE COLD: FREEZE-INDUCED GENE RESPONSES IN FREEZE-TOLERANT VERTEBRATES. Clinical and Experimental Pharmacology and Physiology, 1999, 26, 57-63.	1.9	24
158	Freeze-induced expression of a novel gene, fr47, in the liver of the freeze-tolerant wood frog, Rana sylvatica. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 2003, 1625, 183-191.	2.4	24
159	Molecular mechanisms of anoxia tolerance. International Congress Series, 2004, 1275, 47-54.	0.2	24
160	Anoxia-responsive regulation of the FoxO transcription factors in freshwater turtles, Trachemys scripta elegans. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 4990-4998.	2.4	24
161	Hepatotoxicity of herbicide Sencor in goldfish may result from induction of mild oxidative stress. Pesticide Biochemistry and Physiology, 2015, 122, 67-75.	3.6	24
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