Kenneth B Storey

List of Publications by Citations

871 papers	23,969 citations	67 h-index	109 g-index
910 ext. papers	26,852 ext. citations	3.6 avg, IF	7.55 L-index

#	Paper	IF	Citations
871	Freeze tolerance in animals. *Physiological Reviews*, **1988**, 68, 27-84	47.9	503
870	Metabolic rate depression and biochemical adaptation in anaerobiosis, hibernation and estivation. *Quarterly Review of Biology*, **1990**, 65, 145-74	5.4	495
869	Mitogen-activated protein kinases: new signaling pathways functioning in cellular responses to environmental stress. *Journal of Experimental Biology*, **2003**, 206, 1107-15	3	447
868	Metabolic rate depression in animals: transcriptional and translational controls. *Biological Reviews*, **2004**, 79, 207-33	13.5	440
867	Quantification of lipid peroxidation in tissue extracts based on Fe(III)xylenol orange complex formation. *Free Radical Biology and Medicine*, **1995**, 19, 271-80	7.8	384
866	Bound and determined: a computer program for making buffers of defined ion concentrations. *Analytical Biochemistry*, **1992**, 201, 119-26	3.1	327
865	The promise of organ and tissue preservation to transform medicine. *Nature Biotechnology*, **2017**, 35, 530-542	44.5	246
864	Antioxidant defenses and metabolic depression. The hypothesis of preparation for oxidative stress in land snails. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **1998**, 120, 437-48	2.3	236
863	The western painted turtle genome, a model for the evolution of extreme physiological adaptations in a slowly evolving lineage. *Genome Biology*, **2013**, 14, R28	18.3	227
862	Hyperoxia results in transient oxidative stress and an adaptive response by antioxidant enzymes in goldfish tissues. *International Journal of Biochemistry and Cell Biology*, **2005**, 37, 1670-80	5.6	211
861	Hypoxia and recovery perturb free radical processes and antioxidant potential in common carp (Cyprinus carpio) tissues. *International Journal of Biochemistry and Cell Biology*, **2005**, 37, 1319-30	5.6	201
860	Tribute to P. L. Lutz: putting life on PpauseP-molecular regulation of hypometabolism. *Journal of Experimental Biology*, **2007**, 210, 1700-14	3	200
859	Natural freeze tolerance in ectothermic vertebrates. *Annual Review of Physiology*, **1992**, 54, 619-37	23.1	188
858	Cold-loving microbes, plants, and animals--fundamental and applied aspects. *Die Naturwissenschaften*, **2007**, 94, 77-99	2	180
857	NATURAL FREEZING SURVIVAL IN ANIMALS. *Annual Review of Ecology, Evolution, and Systematics*, **1996**, 27, 365-386		171
856	Life in the slow lane: molecular mechanisms of estivation. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2002**, 133, 733-54	2.6	163
855	Low toxic herbicide Roundup induces mild oxidative stress in goldfish tissues. *Chemosphere*, **2009**, 76, 932-7	8.4	154

854	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	2.2	153
853	Insect cold hardiness: metabolic, gene, and protein adaptation1This review is part of a virtual symposium on recent advances in understanding a variety of complex regulatory processes in insect physiology and endocrinology, including development, metabolism, cold hardiness, food intake and digestion, and diuresis, through the use of omics technologies in the postgenomic era.. *Canadian Journal of Zoology*, 2012, 90, 456-475	1.5	152
852	Out cold: biochemical regulation of mammalian hibernation - a mini-review. *Gerontology*, **2010**, 56, 220-30	3.5	143
851	Organic solutes in freezing tolerance. *Comparative Biochemistry and Physiology A, Comparative Physiology*, **1997**, 117, 319-26		142
850	Biochemistry of Cryoprotectants **1991**, 64-93		134
849	Antioxidant systems and anoxia tolerance in a freshwater turtle Trachemys scripta elegans. *Molecular and Cellular Biochemistry*, **1997**, 170, 177-85	4.2	124
848	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	2.2	123
847	Pesticide toxicity: a mechanistic approach. *EXCLI Journal*, **2018**, 17, 1101-1136	2.4	121
846	Regulation of ground squirrel Na+K+-ATPase activity by reversible phosphorylation during hibernation. *Biochemical and Biophysical Research Communications*, **1999**, 254, 424-9	3.4	117
845	Metabolic consequences of diving in animals and man. *Science*, **1975**, 187, 613-21	33.3	114
844	Molecular biology of freezing tolerance. *Comprehensive Physiology*, **2013**, 3, 1283-308	7.7	110
843	Metabolic regulation in mammalian hibernation: enzyme and protein adaptations. *Comparative Biochemistry and Physiology A, Comparative Physiology*, **1997**, 118, 1115-24		107
842	Antioxidant defenses and lipid peroxidation during anoxia stress and aerobic recovery in the marine gastropod Littorina littorea. *Journal of Experimental Marine Biology and Ecology*, **1998**, 221, 277-292	2.1	104
841	Freeze tolerance and intolerance as strategies of winter survival in terrestrially-hibernating amphibians. *Comparative Biochemistry and Physiology A, Comparative Physiology*, **1986**, 83, 613-7		104
840	Regulation of hypometabolism: insights into epigenetic controls. *Journal of Experimental Biology*, **2015**, 218, 150-9	3	102
839	Glycolytic controls in estivation and anoxia: a comparison of metabolic arrest in land and marine molluscs. *Comparative Biochemistry and Physiology A, Comparative Physiology*, **1997**, 118, 1103-14		101
838	Oxidative stress: animal adaptations in nature. *Brazilian Journal of Medical and Biological Research*, **1996**, 29, 1715-33	2.8	101
837	Metabolic adaptations supporting anoxia tolerance in reptiles: recent advances. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **1996**, 113, 23-35	2.3	98

836	Hatchling turtles survive freezing during winter hibernation. *Proceedings of the National Academy of Sciences of the United States of America*, **1988**, 85, 8350-4	11.5	98
835	Molecular Physiology of Freeze Tolerance in Vertebrates. *Physiological Reviews*, **2017**, 97, 623-665	47.9	97
834	Metabolic rate depression. *Advances in Clinical Chemistry*, **2010**, 52, 77-108	5.8	97
833	The emerging roles of microRNAs in the molecular responses of metabolic rate depression. *Journal of Molecular Cell Biology*, **2011**, 3, 167-75	6.3	96
832	Regulation of cryoprotectant metabolism in the overwintering gall fly larva,Eurosta solidaginis: Temperature control of glycerol and sorbitol levels. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, **1983**, 149, 495-502	2.2	95
831	Freeze tolerant frogs: cryoprotectants and tissue metabolism during freeze□thaw cycles. *Canadian Journal of Zoology*, **1986**, 64, 49-56	1.5	95
830	Oxidative stress and antioxidant defense responses by goldfish tissues to acute change of temperature from 3 to 23 □C. *Journal of Thermal Biology*, **2007**, 32, 227-234	2.9	94
829	Anoxia tolerance in turtles: metabolic regulation and gene expression. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2007**, 147, 263-76	2.6	94
828	Antioxidant defenses and lipid peroxidation damage in estivating toads, Scaphiopus couchii. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, **1998**, 168, 132-42	2.2	90
827	Reptile freeze tolerance: metabolism and gene expression. *Cryobiology*, **2006**, 52, 1-16	2.7	88
826	Strategies for exploration of freeze responsive gene expression: advances in vertebrate freeze tolerance. *Cryobiology*, **2004**, 48, 134-45	2.7	87
825	Aestivation: signaling and hypometabolism. *Journal of Experimental Biology*, **2012**, 215, 1425-33	3	86
824	Suspended animation: the molecular basis of metabolic depression. *Canadian Journal of Zoology*, **1988**, 66, 124-132	1.5	86
823	Mammalian Hibernation. *Advances in Experimental Medicine and Biology*, **2003**, 21-38	3.6	86
822	Freezing and anoxia stresses induce expression of metallothionein in the foot muscle and hepatopancreas of the marine gastropod Littorina littorea. *Journal of Experimental Biology*, **2003**, 206, 2517-24	3	84
821	Differential sensitivities to hypoxia by two anoxia-tolerant marine molluscs: A biochemical analysis. *Marine Biology*, **1991**, 111, 343-351	2.5	84
820	Evidence for a reduced transcriptional state during hibernation in ground squirrels. *Cryobiology*, **2006**, 53, 310-8	2.7	83
819	Strategies of freeze avoidance in larvae of the goldenrod gall moth, Epiblema scudderiana: Winter profiles of a natural population. *Journal of Insect Physiology*, **1987**, 33, 443-450	2.4	82

818	Induction of oxidative stress in Rana ridibunda during recovery from winter hibernation. *Journal of Thermal Biology*, **2003**, 28, 21-28	2.9	79
817	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	2.2	79
816	Winter survival of the gall fly larva, Eurosta solidaginis: Profiles of fuel reserves and cryoprotectants in a natural population. *Journal of Insect Physiology*, **1986**, 32, 549-556	2.4	79
815	Chromium(III) induces oxidative stress in goldfish liver and kidney. *Aquatic Toxicology*, **2009**, 93, 45-52	5.1	76
814	Mammalian hibernation: differential gene expression and novel application of epigenetic controls. *International Journal of Developmental Biology*, **2009**, 53, 433-42	1.9	76
813	Accumulation and translation of ferritin heavy chain transcripts following anoxia exposure in a marine invertebrate. *Journal of Experimental Biology*, **2004**, 207, 1353-60	3	76
812	Hydrogen peroxide increases the activities of soxRS regulon enzymes and the levels of oxidized proteins and lipids in Escherichia coli. *Cell Biology International*, **2005**, 29, 898-902	4.5	72
811	The translation state of differentially expressed mRNAs in the hibernating 13-lined ground squirrel (Spermophilus tridecemlineatus). *Archives of Biochemistry and Biophysics*, **2002**, 401, 244-54	4.1	72
810	Fatty Acid Content and Enzymes of Fatty Acid Metabolism in Overwintering Cold-Hardy Gall Insects. *Physiological Zoology*, **1996**, 69, 1079-1095		72
809	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, 135-8	3.8	70
808	The effect of potassium dichromate on free radical processes in goldfish: possible protective role of glutathione. *Aquatic Toxicology*, **2008**, 87, 108-14	5.1	69
807	Suppression of Na+/K+-ATPase activity during estivation in the land snail Otala lactea. *Journal of Experimental Biology*, **2006**, 209, 677-88	3	69
806	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	2.2	69
805	Expression of Nrf2 and its downstream gene targets in hibernating 13-lined ground squirrels, Spermophilus tridecemlineatus. *Molecular and Cellular Biochemistry*, **2008**, 312, 121-9	4.2	68
804	Gene up-regulation in heart during mammalian hibernation. *Cryobiology*, **2000**, 40, 332-42	2.7	67
803	Differential expression of adipose- and heart-type fatty acid binding proteins in hibernating ground squirrels. *Biochimica Et Biophysica Acta Gene Regulatory Mechanisms*, **2001**, 1522, 238-43		66
802	The optimal depot fat composition for hibernation by golden-mantled ground squirrels (Spermophilus lateralis). *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, **1995**, 164, 536-42	2.2	66
801	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, 257-65		66

800	Up-regulation of a thioredoxin peroxidase-like protein, proliferation-associated gene, in hibernating bats. *Archives of Biochemistry and Biophysics*, **2005**, 435, 103-11	4.1	65
799	Regulation of the mTOR signaling network in hibernating thirteen-lined ground squirrels. *Journal of Experimental Biology*, **2012**, 215, 1720-7	3	64
798	Cytotoxicity of chromium ions may be connected with induction of oxidative stress. *Chemosphere*, **2010**, 80, 1044-9	8.4	63
797	Differential expression of microRNA species in organs of hibernating ground squirrels: a role in translational suppression during torpor. *Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms* , **2008**, 1779, 628-33	6	63
796	Catalase inhibition by amino triazole induces oxidative stress in goldfish brain. *Brain Research*, **2005** , 1052, 180-6	3.7	63
795	Phosphorylation in vivo of red-muscle pyruvate kinase from the channelled whelk, Busycotypus canaliculatum, in response to anoxic stress. *FEBS Journal*, **1984**, 143, 267-72		63
794	MicroRNA regulation below zero: differential expression of miRNA-21 and miRNA-16 during freezing in wood frogs. *Cryobiology*, **2009**, 59, 317-21	2.7	62
793	Determination of water "bound" by soluble subcellular components during low-temperature acclimation in the gall fly larva, Eurosta solidagensis. *Cryobiology*, **1981**, 18, 315-21	2.7	62
792	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, 302-9	6.5	61
791	Differential expression of mature microRNAs involved in muscle maintenance of hibernating little brown bats, Myotis lucifugus: a model of muscle atrophy resistance. *Genomics, Proteomics and Bioinformatics*, **2012**, 10, 295-301	6.5	60
790	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	3	60
789	Mitochondria of cold hardy insects: responses to cold and hypoxia assessed at enzymatic, mRNA and DNA levels. *Insect Biochemistry and Molecular Biology*, **2008**, 38, 367-73	4.5	60
788	Differential expression of Akt, PPARgamma, and PGC-1 during hibernation in bats. *Biochemistry and Cell Biology*, **2003**, 81, 269-74	3.6	60
787	The Relationship Between Lipid Peroxidation, Hibernation, and Food Selection in Mammals. *American Zoologist*, **1998**, 38, 341-349		59
786	Frozen and alive. *Scientific American*, **1990**, 263, 92-7	0.5	59
785	Forever young: mechanisms of natural anoxia tolerance and potential links to longevity. *Oxidative Medicine and Cellular Longevity*, **2010**, 3, 186-98	6.7	58
784	Intermediary Energy Metabolism during Dormancy and Anoxia in the Land Snail Otala lactea. *Physiological Zoology*, **1989**, 62, 1015-1030		58
783	Adaptations of metabolism for freeze tolerance in the gray tree frog, Hyla versicolor. *Canadian Journal of Zoology*, **1985**, 63, 49-54	1.5	57

782	Role of antioxidant defenses in the tolerance of severe dehydration by anurans. The case of the leopard frog Rana pipiens. *Molecular and Cellular Biochemistry*, **1998**, 189, 79-89	4.2	56
781	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	2.2	56
780	Metabolism and bound water in overwintering insects. *Cryobiology*, **1983**, 20, 365-79	2.7	56
779	Evidence for cell cycle suppression and microRNA regulation of cyclin D1 during anoxia exposure in turtles. *Cell Cycle*, **2012**, 11, 1705-13	4.7	55
778	Evaluation of the role of AMP-activated protein kinase and its downstream targets in mammalian hibernation. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **2005**, 142, 374-82	2.3	54
777	Regulation of liver metabolism by enzyme phosphorylation during mammalian hibernation.. *Journal of Biological Chemistry*, **1987**, 262, 1670-1673	5.4	54
776	A Profile of the Metabolic Responses to Anoxia in Marine Invertebrates. *Cell and Molecular Response To Stress*, **2002**, 27-46		53
775	Differential expression of mitochondria-encoded genes in a hibernating mammal. *Journal of Experimental Biology*, **2002**, 205, 1625-1631	3	53
774	An overview of stress response and hypometabolic strategies in Caenorhabditis elegans: conserved and contrasting signals with the mammalian system. *International Journal of Biological Sciences*, **2010**, 6, 9-50	11.2	52
773	Metabolic adjustments during daily torpor in the Djungarian hamster. *American Journal of Physiology - Endocrinology and Metabolism*, **1999**, 276, E896-906	6	51
772	The effect of prolonged anoxia on enzyme activities in oysters (Crassostrea virginica) at different seasons. *Journal of Experimental Marine Biology and Ecology*, **1999**, 242, 259-272	2.1	51
771	Enzyme activity profiles in an overwintering population of freeze-tolerant larvae of the gall fly, Eurosta solidaginis. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, **1994**, 164, 247-255	2.2	51
770	Twenty years of the ℙreparation for Oxidative Stressℙ(POS) theory: Ecophysiological advantages and molecular strategies. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2019**, 234, 36-49	2.6	50
769	Oxidative stress and antioxidants in stress and recovery of cold-hardy insects. *Insect Biochemistry and Molecular Biology*, **1998**, 28, 23-30	4.5	50
768	Antioxidant defense in hibernation: cloning and expression of peroxiredoxins from hibernating ground squirrels, Spermophilus tridecemlineatus. *Archives of Biochemistry and Biophysics*, **2007**, 461, 59-65	4.1	50
767	Reversible suppression of protein synthesis in concert with polysome disaggregation during anoxia exposure in Littorina littorea. *Molecular and Cellular Biochemistry*, **2002**, 232, 121-7	4.2	50
766	Anti-apoptotic signaling as a cytoprotective mechanism in mammalian hibernation. *PeerJ*, **2013**, 1, e29	3.1	50
765	Chaperone proteins and winter survival by a freeze tolerant insect. *Journal of Insect Physiology*, **2011**, 57, 1115-22	2.4	49

764	Energy metabolism in the mantle muscle of the squid,Loligo pealeii. *Journal of Comparative Physiology ? B*, **1978**, 123, 169-175		49
763	High-throughput sequencing reveals differential expression of miRNAs in intestine from sea cucumber during aestivation. *PLoS ONE*, **2013**, 8, e76120	3.7	49
762	RBioplot: an easy-to-use R pipeline for automated statistical analysis and data visualization in molecular biology and biochemistry. *PeerJ*, **2016**, 4, e2436	3.1	49
761	Metabolic rate depression: the biochemistry of mammalian hibernation. *Advances in Clinical Chemistry*, **2010**, 52, 77-108	5.8	49
760	The role of the TOR pathway in mediating the link between nutrition and longevity. *Mechanisms of Ageing and Development*, **2017**, 164, 127-138	5.6	48
759	Transcriptional regulation of antioxidant enzymes by FoxO1 under dehydration stress. *Gene*, **2011**, 485, 114-9	3.8	48
758	Suppression of Na+K+ -ATPase activity by reversible phosphorylation over the winter in a freeze-tolerant insect. *Journal of Insect Physiology*, **2008**, 54, 1023-7	2.4	48
757	Coping with the stress: expression of ATF4, ATF6, and downstream targets in organs of hibernating ground squirrels. *Archives of Biochemistry and Biophysics*, **2008**, 477, 77-85	4.1	48
756	Adaptive response of antioxidant enzymes to catalase inhibition by aminotriazole in goldfish liver and kidney. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **2005**, 142, 335-41	2.3	48
755	Cloning and expression of PPAR-gamma and PGC-1alpha from the hibernating ground squirrel, Spermophilus tridecemlineatus. *Molecular and Cellular Biochemistry*, **2005**, 269, 175-82	4.2	48
754	Activation of mitogen-activated protein kinases during natural freezing and thawing in the wood frog. *Molecular and Cellular Biochemistry*, **2000**, 209, 29-37	4.2	48
753	Mitochondrial enzymes during overwintering in two species of cold-hardy gall insects. *Insect Biochemistry and Molecular Biology*, **1994**, 24, 145-150	4.5	48
752	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, 1281-9	3	47
751	Up-regulation of fatty acid-binding proteins during hibernation in the little brown bat, Myotis lucifugus. *Biochimica Et Biophysica Acta Gene Regulatory Mechanisms*, **2004**, 1676, 63-70		47
750	Physiology, Biochemistry, and Molecular Biology of Vertebrate Freeze Tolerance **2004**, 243-274		47
749	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		46
748	Differential survival of Venus gallina and Scapharca inaequivalvis during anoxic stress: Covalent modification of phosphofructokinase and glycogen phosphorylase during anoxia. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, **1991**, 161, 207-212	2.2	46
747	Glycolytic enzyme binding and metabolic control in anaerobiosis. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, **1986**, 156, 635-640	2.2	46

746	Octopine metabolism in the cuttlefish,Sepia officinalis: Octopine production by muscle and its role as an aerobic substrate for non-muscular tissues. *Journal of Comparative Physiology ? B*, **1979**, 131, 311-319		46
745	Differential expression of mitochondria-encoded genes in a hibernating mammal. *Journal of Experimental Biology*, **2002**, 205, 1625-31	3	46
744	HIF-1 regulation in mammalian hibernators: role of non-coding RNA in HIF-1 control during torpor in ground squirrels and bats. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, **2012**, 182, 849-59	2.2	45
743	AMP-activated protein kinase and metabolic regulation in cold-hardy insects. *Journal of Insect Physiology*, **2011**, 57, 1453-62	2.4	45
742	Regulation of global protein translation and protein degradation in aerobic dormancy. *Molecular and Cellular Biochemistry*, **2009**, 323, 9-20	4.2	45
741	Expression of myocyte enhancer factor-2 and downstream genes in ground squirrel skeletal muscle during hibernation. *Molecular and Cellular Biochemistry*, **2010**, 344, 151-62	4.2	45
740	Ice nucleating activity in the blood of the freeze-tolerant frog, Rana sylvatica. *Cryobiology*, **1990**, 27, 328-35	2.5	45
739	Phosphofructokinase from foot muscle of the whelk, Busycotypus canaliculatum: evidence for covalent modification of the enzyme during anaerobiosis. *Archives of Biochemistry and Biophysics*, **1984**, 235, 665-72	4.1	45
738	Regulation of liver metabolism by enzyme phosphorylation during mammalian hibernation. *Journal of Biological Chemistry*, **1987**, 262, 1670-3	5.4	45
737	Molecular insights into land snail neuropeptides through transcriptome and comparative gene analysis. *BMC Genomics*, **2015**, 16, 308	4.5	44
736	Expression of NF-B and downstream antioxidant genes in skeletal muscle of hibernating ground squirrels, Spermophilus tridecemlineatus. *Cell Biochemistry and Function*, **2012**, 30, 166-74	4.2	44
735	Pattern of cellular quiescence over the hibernation cycle in liver of thirteen-lined ground squirrels. *Cell Cycle*, **2012**, 11, 1714-26	4.7	44
734	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, 403-14	2.2	44
733	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, 679-91	5.6	44
732	Glucose-6-phosphate dehydrogenase regulation during hypometabolism. *Biochemical and Biophysical Research Communications*, **2006**, 339, 7-16	3.4	44
731	Stress-induced activation of the AMP-activated protein kinase in the freeze-tolerant frog Rana sylvatica. *Cryobiology*, **2006**, 53, 297-309	2.7	44
730	Cloning and expression of hypoxia-inducible factor 1alpha from the hibernating ground squirrel, Spermophilus tridecemlineatus. *Biochimica Et Biophysica Acta Gene Regulatory Mechanisms*, **2005**, 1729, 32-40		44
729	Oxidative damage and antioxidants in Rana sylvatica, the freeze-tolerant wood frog. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **1996**, 271, R545-53	3.2	44

728	Antioxidant defenses in the tolerance of freezing and anoxia by garter snakes. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **1993**, 265, R646-52	3.2	44
727	Tissue-Specific Controls on Carbohydrate Catabolism during Anoxia in Goldfish. *Physiological Zoology*, **1987**, 60, 601-607		44
726	Differential expression of microRNA species in a freeze tolerant insect, Eurosta solidaginis. *Cryobiology*, **2012**, 65, 210-4	2.7	43
725	Activation of antioxidant defenses in response to freezing in freeze-tolerant painted turtle hatchlings. *Biochimica Et Biophysica Acta - General Subjects*, **2010**, 1800, 662-8	4	43
724	Activation of antioxidant defense during dehydration stress in the African clawed frog. *Gene*, **2009**, 442, 99-107	3.8	43
723	Chapter 20 Antioxidant defenses and animal adaptation to oxygen availability during environmental stress. *Cell and Molecular Response To Stress*, **2001**, 263-287		43
722	In vitro oxidative inactivation of glutathione S-transferase from a freeze tolerant reptile. *Molecular and Cellular Biochemistry*, **1993**, 124, 149-58	4.2	43
721	Where is the glycolytic complex? A critical evaluation of present data from muscle tissue. *FEBS Letters*, **1991**, 278, 135-8	3.8	43
720	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	3	42
719	Trivalent chromium induces oxidative stress in goldfish brain. *Chemosphere*, **2009**, 75, 56-62	8.4	42
718	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, 305-12	2.2	42
717	Up-regulation of the endoplasmic reticulum molecular chaperone GRP78 during hibernation in thirteen-lined ground squirrels. *Molecular and Cellular Biochemistry*, **2006**, 292, 89-98	4.2	42
716	Mitogen-activated protein kinases and anoxia tolerance in turtles. *The Journal of Experimental Zoology*, **2000**, 287, 477-84		42
715	Phosphofructokinase from the anterior byssus retractor muscle of Mytilvs edulis: Modification of the enzyme in anoxia and by endogenous protein kinases. *International Journal of Biochemistry & Cell Biology*, **1990**, 22, 759-765		42
714	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	2.2	42
713	Functional impact of microRNA regulation in models of extreme stress adaptation. *Journal of Molecular Cell Biology*, **2018**, 10, 93-101	6.3	41
712	Chromium effects on free radical processes in goldfish tissues: comparison of Cr(III) and Cr(VI) exposures on oxidative stress markers, glutathione status and antioxidant enzymes. *Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology*, **2010**, 152, 360-70	3.2	41
711	Pyruvate Kinase from the Land Snail Otala Lactea: Regulation by Reversible Phosphorylation During Estivation and Anoxia. *Journal of Experimental Biology*, **1990**, 154, 321-337	3	41

710	Dehydration mediated microRNA response in the African clawed frog Xenopus laevis. *Gene*, **2013**, 529, 269-75	3.8	40
709	Oxidative stress as a mechanism for toxicity of 2,4-dichlorophenoxyacetic acid (2,4-D): studies with goldfish gills. *Ecotoxicology*, **2013**, 22, 1498-508	2.9	40
708	The regulation of AMPK signaling in a natural state of profound metabolic rate depression. *Molecular and Cellular Biochemistry*, **2010**, 335, 91-105	4.2	40
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