

Nicholas M Teets

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,688
citations

331259

21
h-index

301761

39
g-index

42
all docs

42
docs citations

42
times ranked

1651
citing authors

#	ARTICLE	IF	CITATIONS
1	Physiological mechanisms of seasonal and rapid cold-hardening in insects. <i>Physiological Entomology</i> , 2013, 38, 105-116.	0.6	288
2	Combined transcriptomic and metabolomic approach uncovers molecular mechanisms of cold tolerance in a temperate flesh fly. <i>Physiological Genomics</i> , 2012, 44, 764-777.	1.0	128
3	Compact genome of the Antarctic midge is likely an adaptation to an extreme environment. <i>Nature Communications</i> , 2014, 5, 4611.	5.8	128
4	Gene expression changes governing extreme dehydration tolerance in an Antarctic insect. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20744-20749.	3.3	118
5	Insect capa neuropeptides impact desiccation and cold tolerance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 2882-2887.	3.3	111
6	Calcium signaling mediates cold sensing in insect tissues. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 9154-9159.	3.3	85
7	Responses of the bed bug, <i>Cimex lectularius</i> , to temperature extremes and dehydration: levels of tolerance, rapid cold hardening and expression of heat shock proteins. <i>Medical and Veterinary Entomology</i> , 2009, 23, 418-425.	0.7	73
8	Survival and energetic costs of repeated cold exposure in the Antarctic midge, <i>Belgica antarctica</i> : a comparison between frozen and supercooled larvae. <i>Journal of Experimental Biology</i> , 2011, 214, 806-814.	0.8	65
9	Surviving in a frozen desert: environmental stress physiology of terrestrial Antarctic arthropods. <i>Journal of Experimental Biology</i> , 2014, 217, 84-93.	0.8	59
10	Heat shock response to hypoxia and its attenuation during recovery in the flesh fly, <i>Sarcophaga crassipalpis</i> . <i>Journal of Insect Physiology</i> , 2011, 57, 203-210.	0.9	57
11	Functional characterization of an aquaporin in the Antarctic midge <i>Belgica antarctica</i> . <i>Journal of Insect Physiology</i> , 2011, 57, 1106-1114.	0.9	47
12	Rapid cold-hardening in larvae of the Antarctic midge <i>Belgica antarctica</i> : cellular cold-sensing and a role for calcium. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008, 294, R1938-R1946.	0.9	46
13	Expression of genes involved in energy mobilization and osmoprotectant synthesis during thermal and dehydration stress in the Antarctic midge, <i>Belgica antarctica</i> . <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2013, 183, 189-201.	0.7	45
14	Rapid cold hardening: ecological relevance, physiological mechanisms and new perspectives. <i>Journal of Experimental Biology</i> , 2020, 223, .	0.8	38
15	Genetic variation in the shape of cold-survival curves in a single fly population suggests potential for selection from climate variability. <i>Journal of Evolutionary Biology</i> , 2018, 31, 543-555.	0.8	33
16	Integrating GWAS and Transcriptomics to Identify the Molecular Underpinnings of Thermal Stress Responses in <i>Drosophila melanogaster</i> . <i>Frontiers in Genetics</i> , 2020, 11, 658.	1.1	30
17	Autophagy in Antarctica. <i>Autophagy</i> , 2013, 9, 629-631.	4.3	27
18	Enhanced stress responses and metabolic adjustments linked to diapause and onset of migration in the large milkweed bug <i>Oncopeltus fasciatus</i> . <i>Physiological Entomology</i> , 2016, 41, 152-161.	0.6	27

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19	Two isoforms of Pepck in <i>Sarcophaga bullata</i> and their distinct expression profiles through development, diapause, and in response to stresses of cold and starvation. <i>Journal of Insect Physiology</i> , 2018, 111, 41-46.	0.9	27
20	Energetic consequences of repeated and prolonged dehydration in the Antarctic midge, <i>Belgica antarctica</i> . <i>Journal of Insect Physiology</i> , 2012, 58, 498-505.	0.9	25
21	Quantitative Phosphoproteomics Reveals Signaling Mechanisms Associated with Rapid Cold Hardening in a Chill-Tolerant Fly. <i>Journal of Proteome Research</i> , 2016, 15, 2855-2862.	1.8	22
22	Environmental factors influencing fine-scale distribution of Antarctica's only endemic insect. <i>Oecologia</i> , 2020, 194, 529-539.	0.9	21
23	Alternative overwintering strategies in an Antarctic midge: freezing vs. cryoprotective dehydration. <i>Functional Ecology</i> , 2014, 28, 933-943.	1.7	20
24	The protective effect of rapid cold-hardening develops more quickly in frozen versus supercooled larvae of the Antarctic midge, <i>Belgica antarctica</i> . <i>Journal of Experimental Biology</i> , 2013, 216, 3937-45.	0.8	19
25	Overexpression of an antioxidant enzyme improves male mating performance after stress in a lek-mating fruit fly. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20190531.	1.2	19
26	Distinct cold tolerance traits independently vary across genotypes in <i>Drosophila melanogaster</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2020, 74, 1437-1450.	1.1	16
27	High-Throughput Assays of Critical Thermal Limits in Insects. <i>Journal of Visualized Experiments</i> , 2020, , .	0.2	13
28	Wet hibernacula promote inoculative freezing and limit the potential for cryoprotective dehydration in the Antarctic midge, <i>Belgica antarctica</i> . <i>Polar Biology</i> , 2014, 37, 753-761.	0.5	12
29	Rapid cold hardening protects against sublethal freezing injury in an Antarctic insect. <i>Journal of Experimental Biology</i> , 2019, 222, .	0.8	12
30	Cold stress results in sustained locomotor and behavioral deficits in <i>Drosophila melanogaster</i> . <i>Journal of Experimental Zoology Part A: Ecological and Integrative Physiology</i> , 2019, 331, 192-200.	0.9	12
31	Changes in Energy Reserves and Gene Expression Elicited by Freezing and Supercooling in the Antarctic Midge, <i>Belgica antarctica</i> . <i>Insects</i> , 2020, 11, 18.	1.0	10
32	Energy balance and metabolic changes in an overwintering wolf spider, <i>Schizocosa stridulans</i> . <i>Journal of Insect Physiology</i> , 2020, 126, 104112.	0.9	10
33	Characterization of drought-induced rapid cold-hardening in the Antarctic midge, <i>Belgica antarctica</i> . <i>Polar Biology</i> , 2019, 42, 1147-1156.	0.5	8
34	Hello Darkness, My Old Friend: A Tutorial of Nanda-Hamner Protocols. <i>Journal of Biological Rhythms</i> , 2021, 36, 221-225.	1.4	7
35	Fine-scale variation in microhabitat conditions influences physiology and metabolism in an Antarctic insect. <i>Oecologia</i> , 2021, 197, 373-385.	0.9	7
36	Laboratory diet influences cold tolerance in a genotype-dependent manner in <i>Drosophila melanogaster</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2021, 257, 110948.	0.8	6

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37	Simulated winter warming negatively impacts survival of Antarctica's only endemic insect. <i>Functional Ecology</i> , 2022, 36, 1949-1960.	1.7	6
38	Transcriptional Regulation of Reproductive Diapause in the Convergent Lady Beetle, <i>Hippodamia convergens</i> . <i>Insects</i> , 2022, 13, 343.	1.0	4
39	Evidence for a rapid cold hardening response in cultured <i>Drosophila</i> S2 cells. <i>Journal of Experimental Biology</i> , 2019, 223, .	0.8	3
40	Editorial on combatting the cold: Comparative physiology of low temperature and related stressors in arthropods. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2021, 260, 111037.	0.8	1
41	Mitochondrial superoxide dismutase overexpression and low oxygen conditioning hormesis improve the performance of irradiated sterile males. <i>Scientific Reports</i> , 2021, 11, 20182.	1.6	1