David L Denlinger

List of Publications by Year in Descending Order

200 papers	12,036 citations	63 h-index	102 g-index
210 ext. papers	14,259 ext. citations	4.1 avg, IF	6.81 L-index

#	Paper	IF	Citations
200	Insect Diapause **2022**,		20
199	Confronting the Challenges of a Seasonal Environment **2022**, 1-18		
198	Variation in the Diapause Response **2022**, 32-45		
197	Which Seasons Are Being Avoided? **2022**, 19-31		
196	The Cost of Diapause and Some Diapause Alternatives **2022**, 46-56		
195	Ending Diapause and Reinitiating Development **2022**, 216-239		
194	Genetic Control of Diapause **2022**, 293-304		
193	Evolution of Diapause **2022**, 305-322		
192	Molecular Signaling Pathways that Regulate Diapause **2022**, 240-292		0
191	Preparing for Diapause **2022**, 121-150		
190	Wider Implications **2022**, 323-342		0
189	Interpreting Seasonal Cues to Program Diapause Entry **2022**, 57-120		0
188	The Diapause State **2022**, 151-215		
187	ROS and hypoxia signaling regulate periodic metabolic arousal during insect dormancy to coordinate glucose, amino acid, and lipid metabolism. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	8
186	Expression of aquaporins in response to distinct dehydration stresses that confer stress tolerance in the Antarctic midge Belgica antarctica. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2021**, 256, 110928	2.6	2
185	Cross-tolerance and transcriptional shifts underlying abiotic stress in the seabird tick, Ixodes uriae. *Polar Biology*, **2021**, 44, 1379-1389	2	0
184	Fine-scale variation in microhabitat conditions influences physiology and metabolism in an Antarctic insect. *Oecologia*, **2021**, 197, 373-385	2.9	0

183	Onset of seasonal metabolic depression in the Antarctic midge Belgica antarctica appears to be independent of environmental cues. *Physiological Entomology*, **2020**, 45, 16-21	1.9	16
182	Multi-level analysis of reproduction in an Antarctic midge identifies female and male accessory gland products that are altered by larval stress and impact progeny viability. *Scientific Reports*, **2020**, 10, 19791	4.9	5
181	The Antarctic mite, Alaskozetes antarcticus, shares bacterial microbiome community membership but not abundance between adults and tritonymphs. *Polar Biology*, **2019**, 42, 2075-2085	2	1
180	Genome and Ontogenetic-Based Transcriptomic Analyses of the Flesh Fly,. *G3: Genes, Genomes, Genetics*, **2019**, 9, 1313-1320	3.2	8
179	Sex- and developmental-specific transcriptomic analyses of the Antarctic mite, Alaskozetes antarcticus, reveal transcriptional shifts underlying oribatid mite reproduction. *Polar Biology*, **2019**, 42, 357-370	2	3
178	Changes in Energy Reserves and Gene Expression Elicited by Freezing and Supercooling in the Antarctic Midge,. *Insects*, **2019**, 11,	2.8	4
177	Thermoprotective adaptations are critical for arthropods feeding on warm-blooded hosts. *Current Opinion in Insect Science*, **2019**, 34, 7-11	5.1	15
176	Distinct microRNA and mRNA responses elicited by ecdysone, diapause hormone and a diapause hormone analog at diapause termination in pupae of the corn earworm, Helicoverpa zea. *General and Comparative Endocrinology*, **2019**, 278, 68-78	3	21
175	Evolutionary transition from blood feeding to obligate nonbiting in a mosquito. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 1009-1014	11.5	14
174	Two isoforms of Pepck in Sarcophaga bullata and their distinct expression profiles through development, diapause, and in response to stresses of cold and starvation. *Journal of Insect Physiology*, **2018**, 111, 41-46	2.4	17
173	Changes in microRNA abundance may regulate diapause in the flesh fly, Sarcophaga bullata. *Insect Biochemistry and Molecular Biology*, **2017**, 84, 1-14	4.5	44
172	The diapause program impacts renal excretion and molecular expression of aquaporins in the northern house mosquito, Culex pipiens. *Journal of Insect Physiology*, **2017**, 98, 141-148	2.4	18
171	Keeping time without a spine: what can the insect clock teach us about seasonal adaptation?. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2017**, 372,	5.8	49
170	Reactive oxygen species extend insect life span using components of the insulin-signaling pathway. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E7832-E7840	11.5	58
169	Entrainment of eclosion and preliminary ontogeny of circadian clock gene expression in the flesh fly, Sarcophaga crassipalpis. *Journal of Insect Physiology*, **2016**, 93-94, 28-35	2.4	19
168	Mechanisms of animal diapause: recent developments from nematodes, crustaceans, insects, and fish. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2016**, 310, R1193-211	3.2	131
167	Comparative Transcriptomics Reveals Key Gene Expression Differences between Diapausing and Non-Diapausing Adults of Culex pipiens. *PLoS ONE*, **2016**, 11, e0154892	3.7	20
166	Enhanced stress responses and metabolic adjustments linked to diapause and onset of migration in the large milkweed bug Oncopeltus fasciatus. *Physiological Entomology*, **2016**, 41, 152-161	1.9	21

165	Quantitative Phosphoproteomics Reveals Signaling Mechanisms Associated with Rapid Cold Hardening in a Chill-Tolerant Fly. *Journal of Proteome Research*, **2016**, 15, 2855-62	5.6	17
164	Functional circadian clock genes are essential for the overwintering diapause of the Northern house mosquito, Culex pipiens. *Journal of Experimental Biology*, **2015**, 218, 412-22	3	95
163	Imidazole derivative KK-42 boosts pupal diapause incidence and delays diapause termination in several insect species. *Journal of Insect Physiology*, **2015**, 74, 38-44	2.4	22
162	Identification of FOXO targets that generate diverse features of the diapause phenotype in the mosquito Culex pipiens. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 3811-6	11.5	77
161	Continuous activity and no cycling of clock genes in the Antarctic midge during the polar summer. *Journal of Insect Physiology*, **2015**, 81, 90-6	2.4	29
160	Diapause hormone in the Helicoverpa/Heliothis complex: A review of gene expression, peptide structure and activity, analog and antagonist development, and the receptor. *Peptides*, **2015**, 72, 196-201	3.8	24
159	Development of neuropeptide analogs capable of traversing the integument: A case study using diapause hormone analogs in Helicoverpa zea. *Insect Biochemistry and Molecular Biology*, **2015**, 67, 87-93	4.5	21
158	Aquaporins in the antarctic midge, an extremophile that relies on dehydration for cold survival. *Biological Bulletin*, **2015**, 229, 47-57	1.5	10
157	Suppression of net transpiration by multiple mechanisms conserves water resources during pupal diapause in the corn earworm Helicoverpa zea. *Physiological Entomology*, **2015**, 40, 336-342	1.9	15
156	Shifts in metabolomic profiles of the parasitoid Nasonia vitripennis associated with elevated cold tolerance induced by the parasitoid's diapause, host diapause and host diet augmented with proline. *Insect Biochemistry and Molecular Biology*, **2015**, 63, 34-46	4.5	30
155	Mom Matters: Diapause Characteristics of Culex pipiens-Culex quinquefasciatus (Diptera: Culicidae) Hybrid Mosquitoes. *Journal of Medical Entomology*, **2015**, 52, 131-7	2.2	16
154	Insect capa neuropeptides impact desiccation and cold tolerance. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 2882-7	11.5	83
153	Host diapause status and host diets augmented with cryoprotectants enhance cold hardiness in the parasitoid Nasonia vitripennis. *Journal of Insect Physiology*, **2014**, 70, 8-14	2.4	25
152	Identification of a putative antifreeze protein gene that is highly expressed during preparation for winter in the sunn pest, Eurygaster maura. *Journal of Insect Physiology*, **2014**, 68, 30-5	2.4	23
151	Compact genome of the Antarctic midge is likely an adaptation to an extreme environment. *Nature Communications*, **2014**, 5, 4611	17.4	89
150	Life history traits of adults and embryos of the Antarctic midge Belgica antarctica. *Polar Biology*, **2014**, 37, 1213-1217	2	11
149	Mosquito diapause. *Annual Review of Entomology*, **2014**, 59, 73-93	21.8	179
148	Molecular identification and expression analysis of a diapause hormone receptor in the corn earworm, Helicoverpa zea. *Peptides*, **2014**, 53, 250-7	3.8	26

147	Surviving in a frozen desert: environmental stress physiology of terrestrial Antarctic arthropods. *Journal of Experimental Biology*, **2014**, 217, 84-93	3	43
146	A novel highly divergent protein family identified from a viviparous insect by RNA-seq analysis: a potential target for tsetse fly-specific abortifacients. *PLoS Genetics*, **2014**, 10, e1003874	6	34
145	Alternative overwintering strategies in an Antarctic midge: freezing vs. cryoprotective dehydration. *Functional Ecology*, **2014**, 28, 933-943	5.6	16
144	Suppression of allatotropin simulates reproductive diapause in the mosquito Culex pipiens. *Journal of Insect Physiology*, **2014**, 64, 48-53	2.4	39
143	Transitions in the heartbeat pattern during pupal diapause and adult development in the flesh fly, Sarcophaga crassipalpis. *Journal of Insect Physiology*, **2013**, 59, 767-80	2.4	16
142	Expression of genes involved in energy mobilization and osmoprotectant synthesis during thermal and dehydration stress in the Antarctic midge, Belgica antarctica. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, **2013**, 183, 189-201	2.2	38
141	Transcriptional evidence for small RNA regulation of pupal diapause in the flesh fly, Sarcophaga bullata. *Insect Biochemistry and Molecular Biology*, **2013**, 43, 982-9	4.5	34
140	Evolutionary links between circadian clocks and photoperiodic diapause in insects. *Integrative and Comparative Biology*, **2013**, 53, 131-43	2.8	100
139	Juvenile hormone III suppresses forkhead of transcription factor in the fat body and reduces fat accumulation in the diapausing mosquito, Culex pipiens. *Insect Molecular Biology*, **2013**, 22, 1-11	3.4	55
138	Early changes in the pupal transcriptome of the flesh fly Sarcophagha crassipalpis to parasitization by the ectoparasitic wasp, Nasonia vitripennis. *Insect Biochemistry and Molecular Biology*, **2013**, 43, 1189-200	4.5	41
137	Insulin signaling and the regulation of insect diapause. *Frontiers in Physiology*, **2013**, 4, 189	4.6	138
136	Deep sequencing reveals complex mechanisms of diapause preparation in the invasive mosquito, Aedes albopictus. *Proceedings of the Royal Society B: Biological Sciences*, **2013**, 280, 20130143	4.4	102
135	The protective effect of rapid cold-hardening develops more quickly in frozen versus supercooled larvae of the Antarctic midge, Belgica antarctica. *Journal of Experimental Biology*, **2013**, 216, 3937-45	3	15
134	Polycomb repressive complex 2 (PRC2) protein ESC regulates insect developmental timing by mediating H3K27me3 and activating prothoracicotropic hormone gene expression. *Journal of Biological Chemistry*, **2013**, 288, 23554-64	5.4	40
133	Physiological mechanisms of seasonal and rapid cold-hardening in insects. *Physiological Entomology* , **2013**, 38, 105-116	1.9	215
132	RNA-Seq reveals early distinctions and late convergence of gene expression between diapause and quiescence in the Asian tiger mosquito, Aedes albopictus. *Journal of Experimental Biology*, **2013**, 216, 4082-90	3	55
131	Energetic consequences of repeated and prolonged dehydration in the Antarctic midge, Belgica antarctica. *Journal of Insect Physiology*, **2012**, 58, 498-505	2.4	21
130	Transcript profiling reveals mechanisms for lipid conservation during diapause in the mosquito, Aedes albopictus. *Journal of Insect Physiology*, **2012**, 58, 966-73	2.4	78

129	Dynamics of diapause hormone and prothoracicotropic hormone transcript expression at diapause termination in pupae of the corn earworm, Helicoverpa zea. *Peptides*, **2012**, 34, 120-6	3.8	34
128	Combined transcriptomic and metabolomic approach uncovers molecular mechanisms of cold tolerance in a temperate flesh fly. *Physiological Genomics*, **2012**, 44, 764-77	3.6	98
127	Gene expression changes governing extreme dehydration tolerance in an Antarctic insect. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 20744-9	11.5	85
126	Cross-talk between the fat body and brain regulates insect developmental arrest. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 14687-92	11.5	83
125	Energetics of insect diapause. *Annual Review of Entomology*, **2011**, 56, 103-21	21.8	438
124	Disruption of insect diapause using agonists and an antagonist of diapause hormone. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 16922-6	11.5	67
123	Heat shock response to hypoxia and its attenuation during recovery in the flesh fly, Sarcophaga crassipalpis. *Journal of Insect Physiology*, **2011**, 57, 203-10	2.4	44
122	Catalase and superoxide dismutase-2 enhance survival and protect ovaries during overwintering diapause in the mosquito Culex pipiens. *Journal of Insect Physiology*, **2011**, 57, 628-34	2.4	85
121	Elevated couch potato transcripts associated with adult diapause in the mosquito Culex pipiens. *Journal of Insect Physiology*, **2011**, 57, 620-7	2.4	27
120	Function and immuno-localization of aquaporins in the Antarctic midge Belgica antarctica. *Journal of Insect Physiology*, **2011**, 57, 1096-105	2.4	31
119	A de novo transcriptome of the Asian tiger mosquito, Aedes albopictus, to identify candidate transcripts for diapause preparation. *BMC Genomics*, **2011**, 12, 619	4.5	88
118	Drinking a hot blood meal elicits a protective heat shock response in mosquitoes. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 8026-9	11.5	93
117	The molecular physiology of increased egg desiccation resistance during diapause in the invasive mosquito, Aedes albopictus. *Proceedings of the Royal Society B: Biological Sciences*, **2010**, 277, 2683-92	4.4	106
116	Repeated bouts of dehydration deplete nutrient reserves and reduce egg production in the mosquito Culex pipiens. *Journal of Experimental Biology*, **2010**, 213, 2763-9	3	47
115	Mechanisms of suspended animation are revealed by transcript profiling of diapause in the flesh fly. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 14909-14	11.5	154
114	A potential role for ribosomal protein S2 in the gene network regulating reproductive diapause in the mosquito Culex pipiens. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, **2010**, 180, 171-8	2.2	23
113	Molecular characterization of heat shock protein 90, 70 and 70 cognate cDNAs and their expression patterns during thermal stress and pupal diapause in the corn earworm. *Journal of Insect Physiology* , **2010**, 56, 138-50	2.4	105
112	Isolation of diapause-regulated genes from the flesh fly, Sarcophaga crassipalpis by suppressive subtractive hybridization. *Journal of Insect Physiology*, **2010**, 56, 603-9	2.4	56

111	Meeting the challenges of on-host and off-host water balance in blood-feeding arthropods. *Journal of Insect Physiology*, **2010**, 56, 1366-76	2.4	73
110	Diapause **2009**, 267-271		8
109	Mendelian inheritance of pupal diapause in the flesh fly, Sarcophaga bullata. *Journal of Heredity*, **2009**, 100, 251-5	2.4	41
108	Pupal cuticle protein is abundant during early adult diapause in the mosquito Culex pipiens. *Journal of Medical Entomology*, **2009**, 46, 1382-6	2.2	37
107	Transcription profiling and regulation of fat metabolism genes in diapausing adults of the mosquito Culex pipiens. *Physiological Genomics*, **2009**, 39, 202-9	3.6	76
106	Clock genes period and timeless are rhythmically expressed in brains of newly hatched, photosensitive larvae of the fly, Sarcophaga crassipalpis. *Journal of Insect Physiology*, **2009**, 55, 408-14	2.4	33
105	Length variation in a specific region of the period gene correlates with differences in pupal diapause incidence in the flesh fly, Sarcophaga bullata. *Journal of Insect Physiology*, **2009**, 55, 415-8	2.4	29
104	Gene discovery using massively parallel pyrosequencing to develop ESTs for the flesh fly Sarcophaga crassipalpis. *BMC Genomics*, **2009**, 10, 234	4.5	102
103	Dehydration, rehydration, and overhydration alter patterns of gene expression in the Antarctic midge, Belgica antarctica. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, **2009**, 179, 481-91	2.2	94
102	Distinct contractile and cytoskeletal protein patterns in the Antarctic midge are elicited by desiccation and rehydration. *Proteomics*, **2009**, 9, 2788-98	4.8	29
101	Rapid elevation of Inos and decreases in abundance of other proteins at pupal diapause termination in the flesh fly Sarcophaga crassipalpis. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2009**, 1794, 663-8	4	21
100	Conformational aspects and hyperpotent agonists of diapause hormone for termination of pupal diapause in the corn earworm. *Peptides*, **2009**, 30, 596-602	3.8	26
99	Neuropeptide-like precursor 4 is uniquely expressed during pupal diapause in the flesh fly. *Peptides* , **2009**, 30, 518-21	3.8	22
98	Metabolomics reveals unique and shared metabolic changes in response to heat shock, freezing and desiccation in the Antarctic midge, Belgica antarctica. *Journal of Insect Physiology*, **2008**, 54, 645-55	2.4	130
97	Thermotolerance and rapid cold hardening ameliorate the negative effects of brief exposures to high or low temperatures on fecundity in the flesh fly, Sarcophaga crassipalpis. *Physiological Entomology*, **2008**, 25, 330-336	1.9	11
96	Diapause hormone in the corn earworm, Helicoverpa zea: optimum temperature for activity, structure-activity relationships, and efficacy in accelerating flesh fly pupariation. *Peptides*, **2008**, 29, 196-205	3.8	40
95	Cryoprotective dehydration and the resistance to inoculative freezing in the Antarctic midge, Belgica antarctica. *Journal of Experimental Biology*, **2008**, 211, 524-30	3	93
94	Insulin signaling and FOXO regulate the overwintering diapause of the mosquito Culex pipiens. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 6777-81	11.5	265

93	Regulation of heat shock proteins in the apple maggot Rhagoletis pomonella during hot summer days and overwintering diapause. *Physiological Entomology*, **2008**, 33, 346-352	1.9	21
92	Extremely large aggregations of collembolan eggs on Humble Island, Antarctica: a response to early seasonal warming?. *Polar Biology*, **2008**, 31, 889-892	2	15
91	Why study diapause?. *Entomological Research*, **2008**, 38, 1-9	1.3	97
90	Up-regulation of heat shock proteins is essential for cold survival during insect diapause. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 11130-7	11.5	378
89	Diapause-specific gene expression in the northern house mosquito, Culex pipiens L., identified by suppressive subtractive hybridization. *Journal of Insect Physiology*, **2007**, 53, 235-45	2.4	110
88	Meeting the energetic demands of insect diapause: nutrient storage and utilization. *Journal of Insect Physiology*, **2007**, 53, 760-73	2.4	374
87	Mechanisms to reduce dehydration stress in larvae of the Antarctic midge, Belgica antarctica. *Journal of Insect Physiology*, **2007**, 53, 656-67	2.4	91
86	High temperature and hexane break pupal diapause in the flesh fly, Sarcophaga crassipalpis, by activating ERK/MAPK. *Journal of Insect Physiology*, **2007**, 53, 1276-82	2.4	41
85	Shifts in the carbohydrate, polyol, and amino acid pools during rapid cold-hardening and diapause-associated cold-hardening in flesh flies (Sarcophaga crassipalpis): a metabolomic comparison. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, **2007**, 177, 753-63	2.2	184
84	Slow dehydration promotes desiccation and freeze tolerance in the Antarctic midge Belgica antarctica. *Journal of Experimental Biology*, **2007**, 210, 836-44	3	77
83	Suppression of water loss during adult diapause in the northern house mosquito, Culex pipiens. *Journal of Experimental Biology*, **2007**, 210, 217-26	3	97
82	p38 MAPK is a likely component of the signal transduction pathway triggering rapid cold hardening in the flesh fly Sarcophaga crassipalpis. *Journal of Experimental Biology*, **2007**, 210, 3295-300	3	45
81	Moist habitats are essential for adults of the Antarctic midge, Belgica antarctica (Diptera: Chironomidae), to avoid dehydration. *European Journal of Entomology*, **2007**, 104, 9-14		13
80	A novel member of the NSF family in the corn earworm, Helicoverpa zea: molecular cloning, developmental expression, and tissue distribution. *Biochimica Et Biophysica Acta Gene Regulatory Mechanisms*, **2006**, 1759, 186-90		2
79	Stress-induced accumulation of glycerol in the flesh fly, Sarcophaga bullata: evidence indicating anti-desiccant and cryoprotectant functions of this polyol and a role for the brain in coordinating the response. *Journal of Insect Physiology*, **2006**, 52, 202-14	2.4	121
78	Oleic acid is elevated in cell membranes during rapid cold-hardening and pupal diapause in the flesh fly, Sarcophaga crassipalpis. *Journal of Insect Physiology*, **2006**, 52, 1073-82	2.4	114
77	A nondiapausing variant of the flesh fly, Sarcophaga bullata, that shows arrhythmic adult eclosion and elevated expression of two circadian clock genes, period and timeless. *Journal of Insect Physiology*, **2006**, 52, 1213-8	2.4	58
76	Upregulation of two actin genes and redistribution of actin during diapause and cold stress in the northern house mosquito, Culex pipiens. *Journal of Insect Physiology*, **2006**, 52, 1226-33	2.4	93

75	Enhanced Cold and Desiccation Tolerance in Diapausing Adults of Culex pipiens, and a Role for Hsp70 in Response to Cold Shock but Not as a Component of the Diapause Program. *Journal of Medical Entomology*, **2006**, 43, 713-722	2.2	79
74	Continuous up-regulation of heat shock proteins in larvae, but not adults, of a polar insect. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 14223-7	11.5	143
73	Rapid cold-hardening increases the freezing tolerance of the Antarctic midge Belgica antarctica. *Journal of Experimental Biology*, **2006**, 209, 399-406	3	97
72	Enhanced cold and desiccation tolerance in diapausing adults of Culex pipiens, and a role for Hsp70 in response to cold shock but not as a component of the diapause program. *Journal of Medical Entomology*, **2006**, 43, 713-22	2.2	47
71	Molecular characterization and expression of prothoracicotropic hormone during development and pupal diapause in the cotton bollworm, Helicoverpa armigera. *Journal of Insect Physiology*, **2005**, 51, 691-700	2.4	56
70	Diapause in the mosquito Culex pipiens evokes a metabolic switch from blood feeding to sugar gluttony. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 15912-7	11.5	137
69	Desiccation and rehydration elicit distinct heat shock protein transcript responses in flesh fly pupae. *Journal of Experimental Biology*, **2004**, 207, 963-71	3	97
68	Molecular cloning, developmental expression, and tissue distribution of the gene encoding DH, PBAN and other FXPRL neuropeptides in Samia cynthia ricini. *Journal of Insect Physiology*, **2004**, 50, 1151-61	2.4	26
67	Disruption of pupariation and eclosion behavior in the flesh fly, Sarcophaga bullata Parker (Diptera: Sarcophagidae), by venom from the ectoparasitic wasp Nasonia vitripennis (Walker) (Hymenoptera: Pteromalidae). *Archives of Insect Biochemistry and Physiology*, **2004**, 57, 78-91	2.3	12
66	Identification of a cDNA encoding DH, PBAN and other FXPRL neuropeptides from the tobacco hornworm, Manduca sexta, and expression associated with pupal diapause. *Peptides*, **2004**, 25, 1099-106	3.8	56
65	Structural characterization and expression analysis of prothoracicotropic hormone in the corn earworm, Helicoverpa zea. *Peptides*, **2003**, 24, 1319-25	3.8	19
64	Sarcotoxin II from the flesh fly Sarcophaga crassipalpis (Diptera): A comparison of transcript expression in diapausing and nondiapausing pupae. *European Journal of Entomology*, **2003**, 100, 251-254		16
63	Short-day and long-day expression patterns of genes involved in the flesh fly clock mechanism: period, timeless, cycle and cryptochrome. *Journal of Insect Physiology*, **2002**, 48, 803-816	2.4	110
62	Upregulation of transcripts encoding select heat shock proteins in the flesh fly Sarcophaga crassipalpis in response to venom from the ectoparasitoid wasp Nasonia vitripennis. *Journal of Invertebrate Pathology*, **2002**, 79, 62-3	2.6	28
61	Regulation of diapause. *Annual Review of Entomology*, **2002**, 47, 93-122	21.8	842
60	Genes encoding two cystatins in the flesh fly Sarcophaga crassipalpis and their distinct expression patterns in relation to pupal diapause. *Gene*, **2002**, 292, 121-7	3.8	17
59	Expression of ecdysone receptor is unaffected by pupal diapause in the flesh fly, Sarcophaga crassipalpis, while its dimerization partner, USP, is downregulated. *Journal of Insect Physiology*, **2001**, 47, 915-921	2.4	47
58	Stress proteins **2001**, 155-171		48

57	Heat-shock protein 90 is down-regulated during pupal diapause in the flesh fly, Sarcophaga crassipalpis, but remains responsive to thermal stress. *Insect Molecular Biology*, **2000**, 9, 641-5	3.4	115
56	Cold hardiness of the fly pupal parasitoid Nasonia vitripennis is enhanced by its host Sarcophaga crassipalpis. *Journal of Insect Physiology*, **2000**, 46, 99-106	2.4	65
55	Parturition hormone in the tsetse Glossina morsitans: activity in reproductive tissues from other species and response of tsetse to identified neuropeptides and other neuroactive compounds. *Journal of Insect Physiology*, **2000**, 46, 213-9	2.4	12
54	Sequence and transcription patterns of 60S ribosomal protein P0, a diapause-regulated AP endonuclease in the flesh fly, Sarcophaga crassipalpis. *Gene*, **2000**, 255, 381-8	3.8	30
53	Developmental upregulation of inducible hsp70 transcripts, but not the cognate form, during pupal diapause in the flesh fly, Ssarcophaga crassipalpis. *Insect Biochemistry and Molecular Biology*, **2000**, 30, 515-21	4.5	160
52	Thermotolerance and rapid cold hardening ameliorate the negative effects of brief exposures to high or low temperatures on fecundity in the flesh fly, Sarcophaga crassipalpis. *Physiological Entomology*, **2000**, 25, 330-336	1.9	91
51	Expression of actin in the central nervous system is switched off during diapause in the gypsy moth, Lymantria dispar. *Journal of Insect Physiology*, **1998**, 44, 221-226	2.4	38
50	Activity of gut alkaline phosphatase, proteases and esterase in relation to diapause of pharate first instar larvae of the gypsy moth, Lymantria dispar. *Archives of Insect Biochemistry and Physiology*, **1998**, 37, 197-205	2.3	13
49	G0/G1 cell cycle arrest in the brain of Sarcophaga crassipalpis during pupal diapause and the expression pattern of the cell cycle regulator, proliferating cell nuclear antigen. *Insect Biochemistry and Molecular Biology*, **1998**, 28, 83-9	4.5	79
48	A Role for Ecdysteroids in the Induction and Maintenance of the Pharate First Instar Diapause of the Gypsy Moth, Lymantria dispar. *Journal of Insect Physiology*, **1997**, 43, 289-296	2.4	53
47	A hormone from the uterus of the tsetse fly, Glossina morsitans, stimulates parturition and abortion. *Journal of Insect Physiology*, **1997**, 43, 135-142	2.4	4
46	Diapause-regulated proteins in the gut of pharate first instar larvae of the gypsy moth, Lymantria dispar, and the effect of KK-42 and neck ligation on expression. *Journal of Insect Physiology*, **1996**, 42, 423-431	2.4	36
45	Changes in temperature, not photoperiod, control the pattern of adult eclosion in the tsetse, Glossina morsitans. *Physiological Entomology*, **1995**, 20, 362-366	1.9	26
44	Fecundity and development of the ectoparasitic wasp Nasonia vitripennis are dependent on host quality. *Entomologia Experimentalis Et Applicata*, **1995**, 76, 15-24	2.1	59
43	Redirection of metabolism in the flesh fly, Sarcophaga bullata, following envenomation by the ectoparasitoid Nasonia vitripennis and correlation of metabolic effects with the diapause status of the host. *Journal of Insect Physiology*, **1994**, 40, 207-215	2.4	79
42	Developmental fate of the flesh fly, Sarcophaga bullata, envenomated by the pupal ectoparasitoid, Nasonia vitripennis. *Journal of Insect Physiology*, **1994**, 40, 121-127	2.4	55
41	Alteration of the eclosion rhythm and eclosion behavior in the flesh fly, Sarcophaga crassipalpis, by low and high temperature stress. *Journal of Insect Physiology*, **1994**, 40, 13-21	2.4	84
40	Anoxia blocks thermotolerance and the induction of rapid cold hardening in the flesh fly, Sarcophaga crassipalpis. *Physiological Entomology*, **1994**, 19, 152-158	1.9	19

39	Water relationships in the ectoparasitoid Nasonia vitripennis during larval diapause. *Physiological Entomology*, **1994**, 19, 373-378	1.9	33
38	Does the tsetse parturition rhythm have a circadian basis?. *Physiological Entomology*, **1992**, 17, 305-307	1.9	5
37	Rhythmic pulses of haemolymph pressure associated with parturition and ovulation in the tsetse fly, Glossina morsitans. *Physiological Entomology*, **1992**, 17, 127-130	1.9	3
36	Prolonged thermotolerance in the flesh fly, Sarcophaga crassipalpis, does not require continuous expression or persistence of the 72 kDa heat-shock protein. *Journal of Insect Physiology*, **1992**, 38, 603-609	2.4	30
35	Infradian cycles of oxygen consumption in diapausing pupae of the flesh fly, Sarcophaga crassipalpis, monitored by a scanning microrespirographic method. *Archives of Insect Biochemistry and Physiology*, **1992**, 20, 135-43	2.3	46
34	Role of chilling in the acquisition of cold tolerance and the capacitation to express stress proteins in diapausing pharate larvae of the gypsy moth, Lymantria dispar. *Archives of Insect Biochemistry and Physiology*, **1992**, 21, 271-280	2.3	50
33	Wandering behaviour and pupariation in tsetse larvae. *Physiological Entomology*, **1991**, 16, 523-529	1.9	15
32	Expression of heat shock proteins in response to high and low temperature extremes in diapausing pharate larvae of the gypsy moth, Lymantria dispar. *Archives of Insect Biochemistry and Physiology*, **1991**, 18, 239-249	2.3	61
31	Developmental and metabolic changes induced by anoxia in diapausing and non-diapausing flesh fly pupae. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, **1991**, 160, 683-689	2.2	45
30	Cold shock and heat shock: a comparison of the protection generated by brief pretreatment at less severe temperatures. *Physiological Entomology*, **1991**, 16, 19-26	1.9	49
29	Relationship between Cold Hardiness and Diapause **1991**, 174-198		161
28	Diapause specific proteins expressed by the brain during the pupal diapause of the flesh fly, Sarcophaga crassipalpis. *Journal of Insect Physiology*, **1990**, 36, 775-783	2.4	44
27	Developmental and tissue specific control of the heat shock induced 70 kDa related proteins in the flesh fly, Sarcophaga crassipalpis. *Journal of Insect Physiology*, **1990**, 36, 239-249	2.4	42
26	Cold shock elicits expression of heat shock proteins in the flesh fly, Sarcophaga crassipalpis. *Journal of Insect Physiology*, **1990**, 36, 825-834	2.4	78
25	Cycles of protein synthesis during pupal diapause in the flesh fly, Sarcophaga crassipalpis. *Archives of Insect Biochemistry and Physiology*, **1989**, 12, 111-122	2.3	30
24	A diapause maternal effect in the flesh fly, Sarcophaga bullata: Transfer of information from mother to progeny. *Journal of Insect Physiology*, **1989**, 35, 553-558	2.4	42
23	Cold-Shock Injury and Rapid Cold Hardening in the Flesh Fly Sarcophaga crassipalpis. *Physiological Zoology*, **1987**, 60, 297-304		171
22	Cold tolerance in diapausing and non-diapausing stages of the flesh fly, Sarcophaga crassipalpis. *Physiological Entomology*, **1985**, 10, 309-315	1.9	126

21	Metabolic reserves associated with pupal diapause in the flesh fly, Sarcophaga crassipalpis. *Journal of Insect Physiology*, **1985**, 31, 229-233	2.4	85
20	Hormonal Control of Diapause **1985**, 353-412		43
19	Cold-hardiness: a component of the diapause syndrome in pupae of the flesh flies, Sarcophaga crassipalpis and S. bullata. *Physiological Entomology*, **1984**, 9, 361-364	1.9	45
18	Who controls the rhythm of tsetse parturition: mother or larva?. *Physiological Entomology*, **1983**, 8, 25-28	1.9	11
17	A maternal effect that eliminates pupal diapause in progeny of the flesh fly, Sarcophaga bullata. *Journal of Insect Physiology*, **1982**, 28, 881-884	2.4	83
16	BASIS FOR A SKEWED SEX RATIO IN DIAPAUSE-DESTINED FLESH FLIES. *Evolution; International Journal of Organic Evolution*, **1981**, 35, 1247-1248	3.8	47
15	Duration of Pupal Diapause in the Tobacco Hornworm is Determined by Number of Short Days Received by the Larva. *Journal of Experimental Biology*, **1981**, 91, 331-337	3	40
14	Juvenile hormone and moulting hormone titres in diapause- and non-diapause destined flesh flies. *Journal of Insect Physiology*, **1980**, 26, 661-664	2.4	52
13	The developmental response of flesh flies (Diptera: Sarcophagidae) to tropical seasons : Variation in generation time and diapause in east africa. *Oecologia*, **1978**, 35, 105-107	2.9	36
12	Preventing insect diapause with hormones and cholera toxin. *Life Sciences*, **1976**, 19, 1485-9	6.8	33
11	AUTOGENY AND ENDOCRINE INVOLVEMENT IN THE REPRODUCTION OF TROPICAL FLESH FLIES (DIPTERA: SARCOPHAGIDAE). *Entomologia Experimentalis Et Applicata*, **1976**, 20, 31-38	2.1	4
10	Dynamics of the pregnancy cycle in the tsetse Glossina morsitans. *Journal of Insect Physiology*, **1974** , 20, 1015-26	2.4	116
9	Secretory discharge and microflora of milk gland in tsetse flies. *Nature*, **1974**, 247, 301-303	50.4	70
8	INDUCTION AND TERMINATION OF PUPAL DIAPAUSE INSARCOPHAGA(DIPTERA: SARCOPHAGIDAE). *Biological Bulletin*, **1972**, 142, 11-24	1.5	228
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