Allen G Gibbs

List of Publications by Year in Descending Order

70 papers	3,523 citations	31 h-index	59 g-index
76 ext. papers	3,991 ext. citations	3.1 avg, IF	5.46 L-index

#	Paper	IF	Citations
70	Post-eclosion temperature effects on insect cuticular hydrocarbon profiles. *Ecology and Evolution*, **2021**, 11, 352-364	2.8	1
69	Fly Roller: Development of an Instrument to Exercise Fruit Flies. *Advances in Intelligent Systems and Computing*, **2020**, 445-451	0.4	
68	Starvation resistance is associated with developmentally specified changes in sleep, feeding and metabolic rate. *Journal of Experimental Biology*, **2019**, 222,	3	3
67	Genome-Wide Analysis of Starvation-Selected Drosophila melanogaster-A Genetic Model of Obesity. *Molecular Biology and Evolution*, **2018**, 35, 50-65	8.3	27
66	Spatiotemporal dynamics and genome-wide association genome-wide association analysis of desiccation tolerance in Drosophila melanogaster. *Molecular Ecology*, **2018**, 27, 3525-3540	5.7	23
65	Effects of temperature on transcriptome and cuticular hydrocarbon expression in ecologically differentiated populations of desert. *Ecology and Evolution*, **2017**, 7, 619-637	2.8	6
64	An Experimental Evolution Test of the Relationship between Melanism and Desiccation Survival in Insects. *PLoS ONE*, **2016**, 11, e0163414	3.7	12
63	Preadult life history variation determines adult transcriptome expression. *Molecular Ecology*, **2016**, 25, 741-63	5.7	6
62	Deciphering life history transcriptomes in different environments. *Molecular Ecology*, **2015**, 24, 151-79	5.7	17
61	Obesity-associated cardiac dysfunction in starvation-selected Drosophila melanogaster. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2015**, 309, R658-67	3.2	16
60	Hot and not-so-hot females: reproductive state and thermal preferences of female Arizona Bark Scorpions (Centruroides sculpturatus). *Journal of Evolutionary Biology*, **2015**, 28, 368-75	2.3	9
59	Enhanced Sleep Is an Evolutionarily Adaptive Response to Starvation Stress in Drosophila. *PLoS ONE*, **2015**, 10, e0131275	3.7	30
58	The cost of being queen: investment across Pogonomyrmex harvester ant gynes that differ in degree of claustrality. *Journal of Insect Physiology*, **2014**, 70, 134-42	2.4	6
57	Altered regulation of sleep and feeding contributes to starvation resistance in Drosophila melanogaster. *Journal of Experimental Biology*, **2014**, 217, 3122-32	3	47
56	Toll mediated infection response is altered by gravity and spaceflight in Drosophila. *PLoS ONE*, **2014**, 9, e86485	3.7	23
55	Meta-analysis of geographical clines in desiccation tolerance of Indian drosophilids. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2013**, 164, 391-8	2.6	21
54	Contribution of larval nutrition to adult reproduction in Drosophila melanogaster. *Journal of Experimental Biology*, **2013**, 216, 399-406	3	44

53	Functional genomic and phenotypic responses to desiccation in natural populations of a desert drosophilid. *Molecular Ecology*, **2013**, 22, 2698-715	5.7	30
52	Selection for abdominal tergite pigmentation and correlated responses in the trident: a case study in Drosophila melanogaster. *Biological Journal of the Linnean Society*, **2012**, 106, 287-294	1.9	9
51	Drosophila as a Model for Starvation: Evolution, Physiology, and Genetics **2012**, 37-51		14
50	Thermodynamics of cuticular transpiration. *Journal of Insect Physiology*, **2011**, 57, 1066-9	2.4	39
49	Energetics of metamorphosis in Drosophila melanogaster. *Journal of Insect Physiology*, **2011**, 57, 1437-45	2.4	65
48	The role of 20-hydroxyecdysone signaling in Drosophila pupal metabolism. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2010**, 157, 398-404	2.6	11
47	Synchrotron x-ray visualisation of ice formation in insects during lethal and non-lethal freezing. *PLoS ONE*, **2009**, 4, e8259	3.7	23
46	Partitioning of transpiratory water loss of the desert scorpion, Hadrurus arizonensis (Iuridae). *Journal of Insect Physiology*, **2009**, 55, 544-8	2.4	3
45	Interactions between environmental stress and male mating success may enhance evolutionary divergence of stress-resistant Drosophila populations. *Evolution; International Journal of Organic Evolution*, **2009**, 63, 1653-9	3.8	18
44	Physiological Adaptation in Laboratory Environments **2009**, 522-550		3
43	Effects of temperature on physiology and reproductive success of a montane leaf beetle: implications for persistence of native populations enduring climate change. *Physiological and Biochemical Zoology*, **2008**, 81, 718-32	2	37
42	Conglobation in the pill bug, Armadillidium vulgare, as a water conservation mechanism. *Journal of Insect Science*, **2008**, 8, 1-9	2	23
41	Gene transcription during exposure to, and recovery from, cold and desiccation stress in Drosophila melanogaster. *Insect Molecular Biology*, **2007**, 16, 435-43	3.4	163
40	The role of larval fat cells in adult Drosophila melanogaster. *Journal of Experimental Biology*, **2007**, 210, 956-63	3	123
39	The effect of selection for desiccation resistance on cold tolerance of Drosophila melanogaster. *Physiological Entomology*, **2007**, 32, 322-327	1.9	22
38	Waterproof cockroaches: the early work of J. A. Ramsay. *Journal of Experimental Biology*, **2007**, 210, 921-2	3	12
37	Natural variation in food acquisition mediated via a Drosophila cGMP-dependent protein kinase. *Journal of Experimental Biology*, **2007**, 210, 3547-58	3	91
36	Selection for desiccation resistance in adult Drosophila melanogaster affects larval development and metabolite accumulation. *Journal of Experimental Biology*, **2006**, 209, 3293-300	3	60

35	Discontinuous gas exchange in insects: a clarification of hypotheses and approaches. *Physiological and Biochemical Zoology*, **2006**, 79, 333-43	2	138
34	Discontinuous gas exchange in insects. *Respiratory Physiology and Neurobiology*, **2006**, 154, 18-29	2.8	60
33	The role of discontinuous gas exchange in insects: the chthonic hypothesis does not hold water. *Journal of Experimental Biology*, **2004**, 207, 3477-82	3	81
32	Effect of mating stage on water balance, cuticular hydrocarbons and metabolism in the desert harvester ant, Pogonomyrmex barbatus. *Journal of Insect Physiology*, **2004**, 50, 943-53	2.4	38
31	PHYSIOLOGICAL MECHANISMS OF EVOLVED DESICCATION RESISTANCE IN DROSOPHILA MELANOGASTER **2004**, 89-100		4
30	Cuticular pheromones and water balance in the house fly, Musca domestica. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2003**, 135, 457-65	2.6	12
29	Effects of starvation and desiccation on energy metabolism in desert and mesic Drosophila. *Journal of Insect Physiology*, **2003**, 49, 261-70	2.4	156
28	No place to hide: microclimates of Sonoran Desert Drosophila. *Journal of Thermal Biology*, **2003**, 28, 353-362	2	70
27	Evolution of water conservation mechanisms in Drosophila. *Journal of Experimental Biology*, **2003**, 206, 1183-92	3	196
26	Lipid melting and cuticular permeability: new insights into an old problem. *Journal of Insect Physiology*, **2002**, 48, 391-400	2.4	232
25	Water balance in desert Drosophila: lessons from non-charismatic microfauna. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2002**, 133, 781-9	2.6	77
24	Effects of age on water balance in Drosophila species. *Physiological and Biochemical Zoology*, **2001**, 74, 520-30	2	31
23	Chemical and physical analyses of wax ester properties. *Journal of Insect Science*, **2001**, 1, 4		58
22	Evolution of water balance in the genusDrosophila. *Journal of Experimental Biology*, **2001**, 204, 2331-2338	3	146
21	Evolution of ammonia and urea tolerance in Drosophila melanogaster: resistance and cross-tolerance. *Journal of Insect Physiology*, **2000**, 46, 763-769	2.4	18
20	Relationship Between Tissue-specific Hydrocarbon Profiles and Lipid Melting Temperatures in the Cockroach Blattella germanica. *Journal of Chemical Ecology*, **2000**, 26, 1245-1263	2.7	25
19	The Effects of alpha-Tocopherol on Mammalian Torpor **2000**, 207-213		1
18	The effect of urea exposure on isoaspartyl content and protein L-isoaspartate methyltransferase activity in Drosophila melanogaster. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **1999**, 124, 423-7	2.3	7

17	Resource Acquisition and The Evolution of Stress Resistance in Drosophila melanogaster. *Evolution; International Journal of Organic Evolution*, **1998**, 52, 1342	3.8	63
16	Water-Proofing Properties of Cuticular Lipids. *American Zoologist*, **1998**, 38, 471-482		323
15	The Biology of Lipids: Integrative and Comparative Perspectives. *American Zoologist*, **1998**, 38, 265-267		14
14	The Role of Lipid Physical Properties in Lipid Barriers. *American Zoologist*, **1998**, 38, 268-279		32
13	RESOURCE ACQUISITION AND THE EVOLUTION OF STRESS RESISTANCE IN DROSOPHILA MELANOGASTER. *Evolution; International Journal of Organic Evolution*, **1998**, 52, 1342-1352	3.8	136
12	6 Biochemistry At Depth. *Fish Physiology*, **1997**, 16, 239-277	2	16
11	Physical properties of insect cuticular hydrocarbons: The effects of chain length, methyl-branching and unsaturation. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **1995**, 112, 243-249	2.3	152
10	Physical properties of insect cuticular hydrocarbons: Model mixtures and lipid interactions. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **1995**, 112, 667-672	2.3	64
9	Chapter 10 Temperature, pressure and the sodium pump: The role of homeoviscous adaptation. *Biochemistry and Molecular Biology of Fishes*, **1995**, 5, 197-212		5
8	Sex- and age-related changes in the biophysical properties of cuticular lipids of the housefly, Musca domestica. *Archives of Insect Biochemistry and Physiology*, **1995**, 29, 87-97	2.3	29
7	Thermal Acclimation and Genetic Variation in Cuticular Lipids of the Lesser Migratory Grasshopper (Melanoplus sanguinipes): Effects of Lipid Composition on Biophysical Properties. *Physiological Zoology*, **1994**, 67, 1523-1543		32
6	Genetic and acclimatory variation in biophysical properties of insect cuticle lipids. *Proceedings of the National Academy of Sciences of the United States of America*, **1991**, 88, 7257-60	11.5	63
5	Intra-individual variation in cuticular lipids studied using Fourier transform infrared spectroscopy. *Journal of Insect Physiology*, **1991**, 37, 743-748	2.4	48
4	Pressure adaptation of teleost gill Na+/K+-adenosine triphosphatase: role of the lipid and protein moieties. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, **1990**, 160, 431-439	2.2	37
3	Thermal acclimation of metabolism in salamanders: Fact or artefact?. *Journal of Thermal Biology*, **1984**, 9, 255-260	2.9	30
2	Resistance of the shell membrane and mineral layer to diffusion of oxygen and water in flexible-shelled eggs of the snapping turtle (Chelydra serpentina). *Respiration Physiology*, **1982**, 49, 179-91		13
1	Cuticular lipids and water balance100-120		76