Ary Anthony Hoffmann

List of Publications by Year in Descending Order

800 papers	41,826 citations	94 h-index	175 g-index
863 ext. papers	49,448 ext. citations	4.9 avg, IF	7.97 L-index

#	Paper	IF	Citations
800	Into the wild-a field study on the evolutionary and ecological importance of thermal plasticity in ectotherms across temperate and tropical regions.. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2022**, 377, 20210004	5.8	8
799	Conservation genetics as a management tool: The five best-supported paradigms to assist the management of threatened species.. *Proceedings of the National Academy of Sciences of the United States of America*, **2022**, 119,	11.5	12
798	Understanding the biology of species' ranges: when and how does evolution change the rules of ecological engagement?. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2022**, 377, 20210027	5.8	5
797	Population genomic signatures of the oriental fruit moth related to the Pleistocene climates.. *Communications Biology*, **2022**, 5, 142	6.7	1
796	A decade of stability for wMel Wolbachia in natural Aedes aegypti populations.. *PLoS Pathogens*, **2022**, 18, e1010256	7.6	1
795	Endosymbionts Reduce Microbiome Diversity and Modify Host Metabolism and Fecundity in the Planthopper .. *MSystems*, **2022**, e0151621	7.6	0
794	Population differentiation and intraspecific genetic admixture in two weevils (Coleoptera: Curculionidae) across northern China.. *Ecology and Evolution*, **2022**, 12, e8806	2.8	
793	Sex-specific distribution and classification of Wolbachia infections and mitochondrial DNA haplogroups in Aedes albopictus from the Indo-Pacific.. *PLoS Neglected Tropical Diseases*, **2022**, 16, e0010139	4.8	0
792	Population bottlenecks constrain host microbiome diversity and genetic variation impeding fitness. *PLoS Genetics*, **2022**, 18, e1010206	6	0
791	Parthenogenesis without costs in a grasshopper with hybrid origins. *Science*, **2022**, 376, 1110-1114	33.3	2
790	Using laboratory-cultured nonbiting midge larvae (Chironomus tepperi) to identify early metabolic changes following exposure to zinc **2022**, 291-306		
789	Phylogenomic analyses of the genus Drosophila reveals genomic signals of climate adaptation. *Molecular Ecology Resources*, **2021**,	8.4	3
788	Limonene Emissions: Do Different Types Have Different Biological Effects?. *International Journal of Environmental Research and Public Health*, **2021**, 18,	4.6	2
787	RNA virome diversity and infection in individual flies. *Journal of General Virology*, **2021**, 102,	4.9	2
786	strain AlbB maintains high density and dengue inhibition following introduction into a field population of. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2021**, 376, 20190809	5.8	15
785	Learnings from over a decade of increasing pesticide resistance in the redlegged earth mite, Halotydeus destructor (Tucker). *Pest Management Science*, **2021**, 77, 3013-3024	4.6	3
784	Life stages of the non-native Ommatoiulus moreleti (Lucas, 1860) (Julida, Julidae) in Australian small grain systems. *Agricultural and Forest Entomology*, **2021**, 23, 429	1.9	

783	An endangered flightless grasshopper with strong genetic structure maintains population genetic variation despite extensive habitat loss. *Ecology and Evolution*, **2021**, 11, 5364-5380	2.8	5
782	How is epigenetics predicted to contribute to climate change adaptation? What evidence do we need?. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2021**, 376, 20200119	5.8	9
781	Fitness Costs Associated with Pyrethroid Resistance in Halotydeus destructor (Tucker) (Acari: Penthaleidae) Elucidated Through Semi-field Trials. *Journal of Economic Entomology*, **2021**, 114, 1270-1281	2.2	2
780	A phylogeny for the Drosophila montium species group: A model clade for comparative analyses. *Molecular Phylogenetics and Evolution*, **2021**, 158, 107061	4.1	6
779	Are extreme high temperatures at low or high latitudes more likely to inhibit the population growth of a globally distributed aphid?. *Journal of Thermal Biology*, **2021**, 98, 102936	2.9	2
778	Extreme climate shifts pest dominance hierarchy through thermal evolution and transgenerational plasticity. *Functional Ecology*, **2021**, 35, 1524-1537	5.6	8
777	Temperatures that sterilize males better match global species distributions than lethal temperatures. *Nature Climate Change*, **2021**, 11, 481-484	21.4	19
776	Strip spraying delays pyrethroid resistance in the redlegged earth mite, Halotydeus destructor: a novel refuge strategy. *Pest Management Science*, **2021**, 77, 4572-4582	4.6	1
775	Unbiased population heterozygosity estimates from genome-wide sequence data. *Methods in Ecology and Evolution*, **2021**, 12, 1888	7.7	4
774	Comparative mitogenomics and phylogenetics of the stinging wasps (Hymenoptera: Aculeata). *Molecular Phylogenetics and Evolution*, **2021**, 159, 107119	4.1	3
773	Vector control: Discovery of Wolbachia in malaria vectors. *Current Biology*, **2021**, 31, R738-R740	6.3	2
772	Distribution of Culicoides biting midges (Diptera: Ceratopogonidae) in southern Australia and insight into the Culicoides victoriae morpho-variants. *Austral Entomology*, **2021**, 60, 525-534	1.1	
771	Voltage-sensitive sodium channel (Vssc) mutations associated with pyrethroid insecticide resistance in Aedes aegypti (L.) from two districts of Jeddah, Kingdom of Saudi Arabia: baseline information for a Wolbachia release program. *Parasites and Vectors*, **2021**, 14, 361	4	0
770	Supporting the adaptive capacity of species through more effective knowledge exchange with conservation practitioners. *Evolutionary Applications*, **2021**, 14, 1969-1979	4.8	2
769	Spider Mites Singly Infected With Either or Have Reduced Thermal Tolerance. *Frontiers in Microbiology*, **2021**, 12, 706321	5.7	3
768	Variation in sex ratio of the leafminer Phytomyza plantaginis Goureau (Diptera: Agromyzidae) from Australia. *Austral Entomology*, **2021**, 60, 610-620	1.1	0
767	Maternal effects in gene expression of interspecific coral hybrids. *Molecular Ecology*, **2021**, 30, 517-527	5.7	2
766	Migration trajectories of the diamondback moth Plutella xylostella in China inferred from population genomic variation. *Pest Management Science*, **2021**, 77, 1683-1693	4.6	3

765	Microhabitat separation between the pest aphids Rhopalosiphum padi and Sitobion avenae: food resource or microclimate selection?. *Journal of Pest Science*, **2021**, 94, 795-804	5.5	3
764	Empowering Australian insecticide resistance research with genetic information: the road ahead. *Austral Entomology*, **2021**, 60, 147-162	1.1	3
763	Genetic mixing for population management: From genetic rescue to provenancing. *Evolutionary Applications*, **2021**, 14, 634-652	4.8	29
762	Anthropogenic and natural barriers affect genetic connectivity in an Alpine butterfly. *Molecular Ecology*, **2021**, 30, 114-130	5.7	3
761	Chromosome-level genome of the peach fruit moth Carposina sasakii (Lepidoptera: Carposinidae) provides a resource for evolutionary studies on moths. *Molecular Ecology Resources*, **2021**, 21, 834-848	8.4	15
760	The response to flooding of two overwintering rice stem borers likely accounts for their changing impacts. *Journal of Pest Science*, **2021**, 94, 451-461	5.5	14
759	Options for managing pesticide resistance in the redlegged earth mite (Halotydeus destructor Tucker): an experimental test involving altered selection pressures and alternative chemicals. *Crop and Pasture Science*, **2021**, 72, 474	2.2	0
758	Spatial population genomics of a recent mosquito invasion. *Molecular Ecology*, **2021**, 30, 1174-1189	5.7	5
757	Association Between Susceptibility of Thrips palmi to Spinetoram and Frequency of G275E Mutation Provides Basis for Molecular Quantification of Field-Evolved Resistance. *Journal of Economic Entomology*, **2021**, 114, 339-347	2.2	0
756	Hymenopteran Parasitoids of Aphid Pests within Australian Grain Production Landscapes. *Insects*, **2021**, 12,	2.8	4
755	Flexible habitat choice by aphids exposed to multiple cues reflecting present and future benefits. *Behavioral Ecology*, **2021**, 32, 286-296	2.3	1
754	Infertility and fecundity loss of Wolbachia-infected Aedes aegypti hatched from quiescent eggs is expected to alter invasion dynamics. *PLoS Neglected Tropical Diseases*, **2021**, 15, e0009179	4.8	12
753	Toxicity of Insecticides and Miticides to Natural Enemies in Australian Grains: A Review. *Insects*, **2021**, 12,	2.8	1
752	Reply to: Issues with combining incompatible and sterile insect□techniques. *Nature*, **2021**, 590, E3-E5	50.4	5
751	Low levels of genetic differentiation with isolation by geography and environment in populations of Drosophila melanogaster from across China. *Heredity*, **2021**, 126, 942-954	3.6	0
750	Opportunities and challenges in assessing climate change vulnerability through genomics. *Cell*, **2021**, 184, 1420-1425	56.2	5
749	Molecular Identification of Leafmining Flies From Australia Including New Liriomyza Outbreaks. *Journal of Economic Entomology*, **2021**, 114, 1983-1990	2.2	0
748	Local climate adaptation and gene flow in the native range of two co-occurring fruit moths with contrasting invasiveness. *Molecular Ecology*, **2021**, 30, 4204-4219	5.7	1

747	Predicting species and community responses to global change using structured expert judgement: An Australian mountain ecosystems case study. *Global Change Biology*, **2021**, 27, 4420-4434	11.4	1
746	Reducing mosquito-borne disease transmission to humans: A systematic review of cluster randomised controlled studies that assess interventions other than non-targeted insecticide. *PLoS Neglected Tropical Diseases*, **2021**, 15, e0009601	4.8	1
745	Comparative genome and transcriptome analyses reveal innate differences in response to host plants by two color forms of the two-spotted spider mite Tetranychus urticae. *BMC Genomics*, **2021**, 22, 569	4.5	1
744	How useful are thermal vulnerability indices?. *Trends in Ecology and Evolution*, **2021**, 36, 1000-1010	10.9	9
743	Establishing a climate-ready revegetation trial in central Victoria A case study. *Ecological Management and Restoration*, **2021**, 22, 256	1.4	1
742	Vitellogenin from planthopper oral secretion acts as a novel effector to impair plant defenses. *New Phytologist*, **2021**, 232, 802-817	9.8	9
741	Using unsorted sweep-net samples to rapidly assess macroinvertebrate biodiversity. *Freshwater Science*, **2021**, 40, 551-565	2	1
740	The mitogenome of (Tucker) and its relationships with other trombidiform mites as inferred from nucleotide sequences and gene arrangements. *Ecology and Evolution*, **2021**, 11, 14162-14174	2.8	0
739	Two Newly Introduced Endosymbionts Induce Cell Host Differences in Competitiveness and Metabolic Responses. *Applied and Environmental Microbiology*, **2021**, 87, e0147921	4.8	1
738	Large- and small-scale geographic structures affecting genetic patterns across populations of an Alpine butterfly. *Ecology and Evolution*, **2021**, 11, 14697-14714	2.8	0
737	Study of aphid parasitoids (Hymenoptera: Braconidae) in Australian grain production landscapes. *Austral Entomology*, **2021**, 60, 722	1.1	0
736	A AlbB Transinfection Displays Stable Phenotypic Effects across Divergent Aedes aegypti Mosquito Backgrounds. *Applied and Environmental Microbiology*, **2021**, 87, e0126421	4.8	6
735	A diagnostic primer pair to distinguish between wMel and wAlbB Wolbachia infections. *PLoS ONE*, **2021**, 16, e0257781	3.7	0
734	Forecasting impacts of biological control under future climates: mechanistic modelling of an aphid pest and a parasitic wasp. *Ecological Modelling*, **2021**, 457, 109679	3	0
733	Improving mosquito control strategies with population genomics. *Trends in Parasitology*, **2021**, 37, 907-92	6.4	1
732	Estimating dispersal using close kin dyads: The kindisperse R package. *Molecular Ecology Resources*, **2021**,	8.4	2
731	Genomic knockout of hsp23 both decreases and increases fitness under opposing thermal extremes in Drosophila melanogaster. *Insect Biochemistry and Molecular Biology*, **2021**, 139, 103652	4.5	0
730	Lifecycle of the invasive omnivore, Forficula auricularia, in Australian grain growing environments. *Pest Management Science*, **2021**, 77, 1818-1828	4.6	2

729	Genetic stability of Aedes aegypti populations following invasion by wMel Wolbachia.. *BMC Genomics*, **2021**, 22, 894	4.5	1
728	Chromosome-level assembly of the melon thrips genome yields insights into evolution of a sap-sucking lifestyle and pesticide resistance. *Molecular Ecology Resources*, **2020**, 20, 1110-1125	8.4	16
727	Variable resistance to spinetoram in populations of across a small area unconnected to genetic similarity. *Evolutionary Applications*, **2020**, 13, 2234-2245	4.8	7
726	Increased density of endosymbiotic Buchnera related to pesticide resistance in yellow morph of melon aphid. *Journal of Pest Science*, **2020**, 93, 1281-1294	5.5	3
725	Rapid and strong population genetic differentiation and genomic signatures of climatic adaptation in an invasive mealybug. *Diversity and Distributions*, **2020**, 26, 610-622	5	7
724	Heterogeneous genetic invasions of three insecticide resistance mutations in Indo-Pacific populations of Aedes aegypti (L.). *Molecular Ecology*, **2020**, 29, 1628-1641	5.7	17
723	Background-dependent Wolbachia-mediated insecticide resistance in Laodelphax striatellus. *Environmental Microbiology*, **2020**, 22, 2653-2663	5.2	5
722	Incursion pathways of the Asian tiger mosquito (Aedes albopictus) into Australia contrast sharply with those of the yellow fever mosquito (Aedes aegypti). *Pest Management Science*, **2020**, 76, 4202-4209	4.6	8
721	Recent infection by Wolbachia alters microbial communities in wild Laodelphax striatellus populations. *Microbiome*, **2020**, 8, 104	16.6	16
720	Potential for biological control of the vegetable leafminer, Liriomyza sativae (Diptera: Agromyzidae), in Australia with parasitoid wasps. *Austral Entomology*, **2020**, 59, 16-36	1.1	7
719	An elusive endosymbiont: Does occur naturally in ?. *Ecology and Evolution*, **2020**, 10, 1581-1591	2.8	30
718	Patterns of environmental variance across environments and traits in domestic cattle. *Evolutionary Applications*, **2020**, 13, 1090-1102	4.8	2
717	Heatwaves cause fluctuations in wMel Wolbachia densities and frequencies in Aedes aegypti. *PLoS Neglected Tropical Diseases*, **2020**, 14, e0007958	4.8	34
716	Aedes aegypti insecticide resistance underlies the success (and failure) of Wolbachia population replacement. *Scientific Reports*, **2020**, 10, 63	4.9	15
715	Testing the environmental warming responses of Brachyscome daisy species using a common garden approach. *Austral Ecology*, **2020**, 45, 717	1.5	
714	Measuring the Host-Seeking Ability of Destined for Field Release. *American Journal of Tropical Medicine and Hygiene*, **2020**, 102, 223-231	3.2	5
713	Validating measurements of acclimation for climate change adaptation. *Current Opinion in Insect Science*, **2020**, 41, 7-16	5.1	14
712	Phenotypic Plasticity for Desiccation Resistance, Climate Change, and Future Species Distributions: Will Plasticity Have Much Impact?. *American Naturalist*, **2020**, 196, 306-315	3.7	8

711	Wolbachia supplement biotin and riboflavin to enhance reproduction in planthoppers. *ISME Journal* , **2020**, 14, 676-687	11.9	43
710	Local thermal adaptation and limited gene flow constrain future climate responses of a marine ecosystem engineer. *Evolutionary Applications*, **2020**, 13, 918-934	4.8	21
709	Stable Establishment of spp. in the Brown Planthopper Nilaparvata lugens despite Decreased Host Fitness. *Applied and Environmental Microbiology*, **2020**, 86,	4.8	5
708	Effects of chlorantraniliprole and chromafenozide on mortality and feeding cessation of the fall webworm, Hyphantria cunea (Lepidoptera: Arctiidae). *Journal of Asia-Pacific Entomology*, **2020**, 23, 1067-1072	1.4	0
707	Stable Introduction of Plant-Virus-Inhibiting Wolbachia into Planthoppers for Rice Protection. *Current Biology*, **2020**, 30, 4837-4845.e5	6.3	27
706	Wolbachia. *Current Biology*, **2020**, 30, R1113-R1114	6.3	1
705	Population genomics of two invasive mosquitoes (Aedes aegypti and Aedes albopictus) from the Indo-Pacific. *PLoS Neglected Tropical Diseases*, **2020**, 14, e0008463	4.8	8
704	Population genomic data in spider mites point to a role for local adaptation in shaping range shifts. *Evolutionary Applications*, **2020**, 13, 2821-2835	4.8	5
703	Genome Stability and mtDNA Variants in Field Populations Eight Years after Release. *IScience*, **2020** , 23, 101572	6.1	9
702	Similar Gut Bacterial Microbiota in Two Fruit-Feeding Moth Pests Collected from Different Host Species and Locations. *Insects*, **2020**, 11,	2.8	3
701	Combined Analyses of Phenotype, Genotype and Climate Implicate Local Adaptation as a Driver of Diversity in Eucalyptus microcarpa (Grey Box). *Forests*, **2020**, 11, 495	2.8	1
700	Characterization of Sodium Channel Mutations in the Dengue Vector Mosquitoes and within the Context of Ongoing Releases in Kuala Lumpur, Malaysia. *Insects*, **2020**, 11,	2.8	2
699	Phylogeny and Density Dynamics of Infection of the Health Pest Curtis (Coleoptera: Staphylinidae). *Insects*, **2020**, 11,	2.8	1
698	Frequency of kdr mutations in the voltage-sensitive sodium channel (V) gene in Aedes aegypti from Yogyakarta and implications for Wolbachia-infected mosquito trials. *Parasites and Vectors*, **2020**, 13, 429	4	1
697	Origin of resistance to pyrethroids in the redlegged earth mite (Halotydeus destructor) in Australia: repeated local evolution and migration. *Pest Management Science*, **2020**, 76, 509-519	4.6	9
696	Wolbachia dominate Spiroplasma in the co-infected spider mite Tetranychus truncatus. *Insect Molecular Biology*, **2020**, 29, 19-37	3.4	9
695	Impacts of Low Temperatures on Wolbachia (Rickettsiales: Rickettsiaceae)-Infected Aedes aegypti (Diptera: Culicidae). *Journal of Medical Entomology*, **2020**, 57, 1567-1574	2.2	10
694	Stable establishment of wMel Wolbachia in Aedes aegypti populations in Yogyakarta, Indonesia. *PLoS Neglected Tropical Diseases*, **2020**, 14, e0008157	4.8	41

693	Persistent deleterious effects of a deleterious Wolbachia infection. *PLoS Neglected Tropical Diseases*, **2020**, 14, e0008204	4.8	10
692	Evolutionary Ecology of Releases for Disease Control. *Annual Review of Genetics*, **2019**, 53, 93-116	14.5	56
691	The importance of timing of heat events for predicting the dynamics of aphid pest populations. *Pest Management Science*, **2019**, 75, 1866-1874	4.6	14
690	Genomic changes associated with adaptation to arid environments in cactophilic Drosophila species. *BMC Genomics*, **2019**, 20, 52	4.5	9
689	Functional Analysis of a Putative Target of Spatially Varying Selection in the Gene of. *G3: Genes, Genomes, Genetics*, **2019**, 9, 73-80	3.2	3
688	Geographical and interspecific variation in susceptibility of three common thrips species to the insecticide, spinetoram. *Journal of Pest Science*, **2019**, 94, 93	5.5	7
687	A genomic approach to inferring kinship reveals limited intergenerational dispersal in the yellow fever mosquito. *Molecular Ecology Resources*, **2019**, 19, 1254-1264	8.4	32
686	Changes in lipid classes of Drosophila melanogaster in response to selection for three stress traits. *Journal of Insect Physiology*, **2019**, 117, 103890	2.4	2
685	Wide diurnal temperature variation inhibits larval development and adult reproduction in the diamondback moth. *Journal of Thermal Biology*, **2019**, 84, 8-15	2.9	8
684	Mitochondrial variation in small brown planthoppers linked to multiple traits and probably reflecting a complex evolutionary trajectory. *Molecular Ecology*, **2019**, 28, 3306-3323	5.7	5
683	Genomic variation predicts adaptive evolutionary responses better than population bottleneck history. *PLoS Genetics*, **2019**, 15, e1008205	6	30
682	Hybridization as a conservation management tool. *Conservation Letters*, **2019**, 12, e12652	6.9	44
681	Life History Effects Linked to an Advantage for Au in. *Insects*, **2019**, 10,	2.8	8
680	Pyrethroid resistance in the pest mite, Halotydeus destructor: Dominance patterns and a new method for resistance screening. *Pesticide Biochemistry and Physiology*, **2019**, 159, 9-16	4.9	10
679	Local and regional scale habitat heterogeneity contribute to genetic adaptation in a commercially important marine mollusc (Haliotis rubra) from southeastern Australia. *Molecular Ecology*, **2019**, 28, 3053-3072	5.7	16
678	A Re-Evaluation of Chironomid Deformities as an Environmental Stress Response: Avoiding Survivorship Bias and Testing Noncontaminant Biological Factors. *Environmental Toxicology and Chemistry*, **2019**, 38, 1658-1667	3.8	6
677	Loss of cytoplasmic incompatibility in Wolbachia-infected Aedes aegypti under field conditions. *PLoS Neglected Tropical Diseases*, **2019**, 13, e0007357	4.8	55
676	A transcriptional and functional analysis of heat hardening in two invasive fruit fly species, and. *Evolutionary Applications*, **2019**, 12, 1147-1163	4.8	10

675	The spread of resistance to imidacloprid is restricted by thermotolerance in natural populations of Drosophila melanogaster. *Nature Ecology and Evolution*, **2019**, 3, 647-656	12.3	15
674	Morphological and Molecular Analysis of Australian Earwigs (Dermaptera) Points to Unique Species and Regional Endemism in the Anisolabididae Family. *Insects*, **2019**, 10,	2.8	2
673	Environmental Concentrations of Antibiotics May Diminish Wolbachia infections in Aedes aegypti (Diptera: Culicidae). *Journal of Medical Entomology*, **2019**, 56, 1078-1086	2.2	11
672	Independently evolved and gene flow-accelerated pesticide resistance in two-spotted spider mites. *Ecology and Evolution*, **2019**, 9, 2206-2219	2.8	10
671	Field margins provide a refuge for pest genes beneficial to resistance management. *Journal of Pest Science*, **2019**, 92, 1017-1026	5.5	11
670	Tracking genetic invasions: Genome-wide single nucleotide polymorphisms reveal the source of pyrethroid-resistant (yellow fever mosquito) incursions at international ports. *Evolutionary Applications*, **2019**, 12, 1136-1146	4.8	23
669	Molecular Phylogeny and Historical Biogeography of the Butterfly Tribe Aeromachini Tutt (Lepidoptera: Hesperiidae) from China. *Cells*, **2019**, 8,	7.9	5
668	Summer diapause intensity influenced by parental and offspring environmental conditions in the pest mite, Halotydeus destructor. *Journal of Insect Physiology*, **2019**, 114, 92-99	2.4	17
667	Identifying critical research gaps that limit control options for invertebrate pests in Australian grain production systems. *Austral Entomology*, **2019**, 58, 9-26	1.1	2
666	Strong impact of thermal environment on the quantitative genetic basis of a key stress tolerance trait. *Heredity*, **2019**, 122, 315-325	3.6	15
665	A Wolbachia infection from Drosophila that causes cytoplasmic incompatibility despite low prevalence and densities in males. *Heredity*, **2019**, 122, 428-440	3.6	16
664	Major range loss predicted from lack of heat adaptability in an alpine Drosophila species. *Science of the Total Environment*, **2019**, 695, 133753	10.2	11
663	Incompatible and sterile insect techniques combined eliminate mosquitoes. *Nature*, **2019**, 572, 56-61	50.4	228
662	Is temperature preference in the laboratory ecologically relevant for the field? The case of Drosophila nigrosparsa. *Global Ecology and Conservation*, **2019**, 18, e00638	2.8	8
661	Predicting the spatial dynamics of Wolbachia infections in Aedes aegypti arbovirus vector populations in heterogeneous landscapes. *Journal of Applied Ecology*, **2019**, 56, 1674-1686	5.8	13
660	Factors Influencing Damage by the Portuguese Millipede, Ommatoiulus moreleti (Julida: Julidae), to Crop Seedlings. *Journal of Economic Entomology*, **2019**, 112, 2695-2702	2.2	3
659	Insecticide resistance status of Aedes aegypti and Aedes albopictus mosquitoes in Papua New Guinea. *Parasites and Vectors*, **2019**, 12, 333	4	27
658	The roles of age, parentage and environment on bacterial and algal endosymbiont communities in Acropora corals. *Molecular Ecology*, **2019**, 28, 3830-3843	5.7	6

657	Population analysis reveals genetic structure of an invasive agricultural thrips pest related to invasion of greenhouses and suitable climatic space. *Evolutionary Applications*, **2019**, 12, 1868-1880	4.8	13
656	Genetic correlations and their dependence on environmental similarity-Insights from livestock data. *Evolution; International Journal of Organic Evolution*, **2019**, 73, 1672-1678	3.8	1
655	Linking thermal adaptation and life-history theory explains latitudinal patterns of voltinism. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2019**, 374, 20180547	5.8	8
654	How well do revegetation plantings capture genetic diversity?. *Biology Letters*, **2019**, 15, 20190460	3.6	14
653	The effects of individual nonheritable variation on fitness estimation and coexistence. *Ecology and Evolution*, **2019**, 9, 8995-9004	2.8	2
652	Establishment of Mel in mosquitoes and reduction of local dengue transmission in Cairns and surrounding locations in northern Queensland, Australia. *Gates Open Research*, **2019**, 3, 1547	2.4	88
651	Establishment of wMel Wolbachia in Aedes aegypti mosquitoes and reduction of local dengue transmission in Cairns and surrounding locations in northern Queensland, Australia. *Gates Open Research*, **2019**, 3, 1547	2.4	75
650	Does membrane feeding compromise the quality of Aedes aegypti mosquitoes?. *PLoS ONE*, **2019**, 14, e0224268	3.7	11
649	A LAMP assay for the rapid and robust assessment of Wolbachia infection in Aedes aegypti under field and laboratory conditions. *PLoS ONE*, **2019**, 14, e0225321	3.7	6
648	Establishment of Wolbachia Strain wAlbB in Malaysian Populations of Aedes aegypti for Dengue Control. *Current Biology*, **2019**, 29, 4241-4248.e5	6.3	128
647	Phylogenetic signals in pest abundance and distribution range of spider mites. *BMC Evolutionary Biology*, **2019**, 19, 223	3	0
646	Climate-induced phenology shifts linked to range expansions in species with multiple reproductive cycles per year. *Nature Communications*, **2019**, 10, 4455	17.4	48
645	Climate, human influence and the distribution limits of the invasive European earwig, Forficula auricularia, in Australia. *Pest Management Science*, **2019**, 75, 134-143	4.6	7
644	A comprehensive assessment of inbreeding and laboratory adaptation in mosquitoes. *Evolutionary Applications*, **2019**, 12, 572-586	4.8	35
643	Escalating insecticide resistance in Australian grain pests: contributing factors, industry trends and management opportunities. *Pest Management Science*, **2019**, 75, 1494-1506	4.6	20
642	Contrasting Patterns of Virus Protection and Functional Incompatibility Genes in Two Conspecific Strains from. *Applied and Environmental Microbiology*, **2019**, 85,	4.8	10
641	Detoxification Genes Differ Between Cactus-, Fruit-, and Flower-Feeding Drosophila. *Journal of Heredity*, **2019**, 110, 80-91	2.4	9
640	Induced expression of small heat shock proteins is associated with thermotolerance in female Laodelphax striatellus planthoppers. *Cell Stress and Chaperones*, **2019**, 24, 115-123	4	10

639	Impacts of recent climate change on terrestrial flora and fauna: Some emerging Australian examples. *Austral Ecology*, **2019**, 44, 3-27	1.5	57
638	Cross-Generational Effects of Heat Stress on Fitness and Wolbachia Density in Aedes aegypti Mosquitoes. *Tropical Medicine and Infectious Disease*, **2019**, 4,	3.5	20
637	Detoxifying enzyme complements and host use phenotypes in 160 insect species. *Current Opinion in Insect Science*, **2019**, 31, 131-138	5.1	40
636	The Impact of Climate Change on Fertility. *Trends in Ecology and Evolution*, **2019**, 34, 249-259	10.9	91
635	Matching the genetics of released and local Aedes aegypti populations is critical to assure Wolbachia invasion. *PLoS Neglected Tropical Diseases*, **2019**, 13, e0007023	4.8	77
634	Development of novel microsatellites for population genetic analysis of Phenacoccus solenopsis Tinsley (Hemipeta: Pseudoccoccidae) based on genomic analysis. *International Journal of Biological Macromolecules*, **2019**, 121, 1135-1144	7.9	4
633	Bees of the Victorian Alps: Network structure and interactions of introduced species. *Austral Ecology*, **2019**, 44, 245-254	1.5	5
632	A change in the bacterial community of spider mites decreases fecundity on multiple host plants. *MicrobiologyOpen*, **2019**, 8, e00743	3.4	12
631	Climate change vulnerability assessment of species. *Wiley Interdisciplinary Reviews: Climate Change*, **2019**, 10, e551	8.4	122
630	Environmental Stress and Evolutionary Change **2019**, 197-203		
629	Rates and Patterns of Laboratory Adaptation in (Mostly) Insects. *Journal of Economic Entomology*, **2018**, 111, 501-509	2.2	58
628	Gene arrangement and sequence of mitochondrial genomes yield insights into the phylogeny and evolution of bees and sphecid wasps (Hymenoptera: Apoidea). *Molecular Phylogenetics and Evolution*, **2018**, 124, 1-9	4.1	30
627	Biodiversity responds to increasing climatic extremes in a biome-specific manner. *Science of the Total Environment*, **2018**, 634, 382-393	10.2	15
626	Summer egg diapause in a matchstick grasshopper synchronizes the life cycle and buffers thermal extremes. *Integrative Zoology*, **2018**, 13, 437-449	1.9	6
625	Mission Accomplished? We Need a Guide to the 'Post Release' World of Wolbachia for Aedes-borne Disease Control. *Trends in Parasitology*, **2018**, 34, 217-226	6.4	52
624	Laboratory selection for resistance to sulfoxaflor and fitness costs in the green peach aphid Myzus persicae. *Journal of Asia-Pacific Entomology*, **2018**, 21, 408-412	1.4	26
623	Influence of previous host plants on the reproductive success of a polyphagous mite pest, Halotydeus destructor (Trombidiformes: Penthaleidae). *Journal of Economic Entomology*, **2018**, 111, 680-688	2.2	8
622	Life-history traits and physiological limits of the alpine fly (Diptera: Drosophilidae): A comparative study. *Ecology and Evolution*, **2018**, 8, 2006-2020	2.8	6

621	Fine-scale landscape genomics helps explain the slow spatial spread of Wolbachia through the Aedes aegypti population in Cairns, Australia. *Heredity*, **2018**, 120, 386-395	3.6	61
620	A genomic approach to identify and monitor a novel pyrethroid resistance mutation in the redlegged earth mite, Halotydeus destructor. *Pesticide Biochemistry and Physiology*, **2018**, 144, 83-90	4.9	17
619	Behavioral thermoregulation in a small herbivore avoids direct UVB damage. *Journal of Insect Physiology*, **2018**, 107, 276-283	2.4	7
618	Incidence of Facultative Bacterial Endosymbionts in Spider Mites Associated with Local Environments and Host Plants. *Applied and Environmental Microbiology*, **2018**, 84,	4.8	33
617	Assessing the current and future biological control potential of Trichogramma ostriniae on its hosts Ostrinia furnacalis and Ostrinia nubilalis. *Pest Management Science*, **2018**, 74, 1513-1523	4.6	11
616	A cryptic diapause strategy in Halotydeus destructor (Tucker) (Trombidiformes: Penthaleidae) induced by multiple cues. *Pest Management Science*, **2018**, 74, 2618-2625	4.6	20
615	Plasticity for desiccation tolerance across species is affected by phylogeny and climate in complex ways. *Proceedings of the Royal Society B: Biological Sciences*, **2018**, 285,	4.4	33
614	Efficacy of carbon dioxide treatments for the control of the two-spotted spider mite, Tetranychus urticae, and treatment impact on plant seedlings. *Experimental and Applied Acarology*, **2018**, 75, 143-153	2.1	2
613	Rapid Global Spread of wRi-like Wolbachia across Multiple Drosophila. *Current Biology*, **2018**, 28, 963-971	6.8	79
612	Influence of Wolbachia infection on mitochondrial DNA variation in the genus Polytremis (Lepidoptera: Hesperiidae). *Molecular Phylogenetics and Evolution*, **2018**, 129, 158-170	4.1	7
611	A short work-flow to effectively source faecal pollution in recreational waters - A case study. *Science of the Total Environment*, **2018**, 644, 1503-1510	10.2	3
610	No detectable effect of Mel on the prevalence and abundance of the RNA virome of. *Proceedings of the Royal Society B: Biological Sciences*, **2018**, 285,	4.4	37
609	Interspecific Hybridization May Provide Novel Opportunities for Coral Reef Restoration. *Frontiers in Marine Science*, **2018**, 5,	4.5	35
608	Continued Susceptibility of the Mel Infection in to Heat Stress Following Field Deployment and Selection. *Insects*, **2018**, 9,	2.8	16
607	Wolbachia-induced apoptosis associated with increased fecundity in Laodelphax striatellus (Hemiptera: Delphacidae). *Insect Molecular Biology*, **2018**, 27, 796-807	3.4	22
606	Small females prefer small males: size assortative mating in Aedes aegypti mosquitoes. *Parasites and Vectors*, **2018**, 11, 445	4	6
605	The Wolbachia strain wAu provides highly efficient virus transmission blocking in Aedes aegypti. *PLoS Pathogens*, **2018**, 14, e1006815	7.6	103
604	The Effect of Nonrandom Mating on Dynamics: Implications for Population Replacement and Sterile Releases in Mosquitoes. *American Journal of Tropical Medicine and Hygiene*, **2018**, 99, 608-617	3.2	1

603	Can non-destructive DNA extraction of bulk invertebrate samples be used for metabarcoding?. *PeerJ*, **2018**, 6, e4980	3.1	28
602	Making monitoring work: insights and lessons from Australia's Long Term Ecological Research Network. *Australian Zoologist*, **2018**, 39, 755-768	0.7	2
601	The detection and significance of emerging insecticide resistance in mosquitoes. *Microbiology Australia*, **2018**, 39, 80	0.8	3
600	Comparative studies of critical physiological limits and vulnerability to environmental extremes in small ectotherms: How much environmental control is needed?. *Integrative Zoology*, **2018**, 13, 355-371	1.9	26
599	Climate contributes to the evolution of pesticide resistance. *Global Ecology and Biogeography*, **2018** , 27, 223-232	6.1	26
598	Can high-throughput sequencing detect macroinvertebrate diversity for routine monitoring of an urban river?. *Ecological Indicators*, **2018**, 85, 440-450	5.8	22
597	Spatial patterns of genetic diversity among Australian alpine flora communities revealed by comparative phylogenomics. *Journal of Biogeography*, **2018**, 45, 177-189	4.1	6
596	Environmental variation partitioned into separate heritable components. *Evolution; International Journal of Organic Evolution*, **2018**, 72, 136-152	3.8	17
595	Effects of Alternative Blood Sources on Infected Females within and across Generations. *Insects*, **2018**, 9,	2.8	7
594	Field associations of first generation densities of the pest mites Halotydeus destructor and Penthaleus major in pasture. *Experimental and Applied Acarology*, **2018**, 76, 487-506	2.1	1
593	Interactions Between Facultative Symbionts Hamiltonella and Cardinium in Bemisia tabaci (Hemiptera: Aleyrodoidea): Cooperation or Conflict?. *Journal of Economic Entomology*, **2018**, 111, 2660-2666	2.2	10
592	Preference and performance of the two-spotted spider mite Tetranychus urticae (Acari: Tetranychidae) on strawberry cultivars. *Experimental and Applied Acarology*, **2018**, 76, 185-196	2.1	8
591	Multiple refugia from penultimate glaciations in East Asia demonstrated by phylogeography and ecological modelling of an insect pest. *BMC Evolutionary Biology*, **2018**, 18, 152	3	14
590	Enhancing Common Associations With a Regulatory Haplotype for Thoracic Pigmentation in a Japanese Population and Australian Populations. *Frontiers in Physiology*, **2018**, 9, 822	4.6	4
589	Vertical Transmission of Is Associated With Host Vitellogenin in. *Frontiers in Microbiology*, **2018**, 9, 2016	5.7	24
588	Evolutionary divergence of mitochondrial genomes in two Tetranychus species distributed across different climates. *Insect Molecular Biology*, **2018**, 27, 698-709	3.4	12
587	Rapid spread of a Wolbachia infection that does not affect host reproduction in Drosophila simulans cage populations. *Evolution; International Journal of Organic Evolution*, **2018**, 72, 1475	3.8	21
586	Toxicity of seven insecticides to different developmental stages of the whitefly Bemisia tabaci MED (Hemiptera: Aleyrodidae) in multiple field populations of China. *Ecotoxicology*, **2018**, 27, 742-751	2.9	13

585	Climatic warming strengthens a positive feedback between alpine shrubs and fire. *Global Change Biology*, **2017**, 23, 3249-3258	11.4	26
584	Soil moisture conditions determine phenology and success of larval escape in the peach fruit moth, Carposina sasakii (Lepidoptera, Carposinidae): Implications for predicting drought effects on a diapausing insect. *Applied Soil Ecology*, **2017**, 110, 65-72	5	5
583	Genomic Trajectories to Desiccation Resistance: Convergence and Divergence Among Replicate Selected Drosophila Lines. *Genetics*, **2017**, 205, 871-890	4	33
582	Testing for local adaptation and evolutionary potential along altitudinal gradients in rainforest Drosophila: beyond laboratory estimates. *Global Change Biology*, **2017**, 23, 1847-1860	11.4	24
581	Taking advantage of adaptations when managing threatened species within variable environments: the case of the dwarf galaxias, Galaxiella pusilla (Teleostei, Galaxiidae). *Marine and Freshwater Research*, **2017**, 68, 175	2.2	8
580	Low genetic diversity but strong population structure reflects multiple introductions of western flower thrips (Thysanoptera: Thripidae) into China followed by human-mediated spread. *Evolutionary Applications*, **2017**, 10, 391-401	4.8	21
579	Life stages of an aphid living under similar thermal conditions differ in thermal performance. *Journal of Insect Physiology*, **2017**, 99, 1-7	2.4	34
578	Does increased heat resistance result in higher susceptibility to predation? A test using Drosophila melanogaster selection and hardening. *Journal of Evolutionary Biology*, **2017**, 30, 1153-1164	2.3	0
577	Wolbachia-induced loss of male fertility is likely related to branch chain amino acid biosynthesis and iLvE in Laodelphax striatellus. *Insect Biochemistry and Molecular Biology*, **2017**, 85, 11-20	4.5	20
576	Evolution of phenotypic plasticity in extreme environments. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2017**, 372,	5.8	162
575	Revisiting Adaptive Potential, Population Size, and Conservation. *Trends in Ecology and Evolution*, **2017**, 32, 506-517	10.9	108
574	Different genetic structures revealed resident populations of a specialist parasitoid wasp in contrast to its migratory host. *Ecology and Evolution*, **2017**, 7, 5400-5409	2.8	6
573	Genetic structure of Gahnia radula (Cyperaceae), a key sedge for revegetation. *Australian Journal of Botany*, **2017**, 65, 128	1.2	
572	Rapid adaptation of invertebrate pests to climatic stress?. *Current Opinion in Insect Science*, **2017**, 21, 7-13	5.1	22
571	Detecting invertebrate species in archived collections using next-generation sequencing. *Molecular Ecology Resources*, **2017**, 17, 915-930	8.4	9
570	Genetic rescue increases fitness and aids rapid recovery of an endangered marsupial population. *Nature Communications*, **2017**, 8, 1071	17.4	67
569	Crop Seedling Susceptibility to Armadillidium vulgare (Isopoda: Armadillidiidae) and Ommatoiulus moreletii (Diplopoda: Iulidae). *Journal of Economic Entomology*, **2017**, 110, 2679-2685	2.2	7
568	Genome-wide SNPs reveal the drivers of gene flow in an urban population of the Asian Tiger Mosquito, Aedes albopictus. *PLoS Neglected Tropical Diseases*, **2017**, 11, e0006009	4.8	25

567	Metabolomic Profiles of a Midge (Procladius villosimanus, Kieffer) Are Associated with Sediment Contamination in Urban Wetlands. *Metabolites*, **2017**, 7,	5.6	2
566	Orthonome - a new pipeline for predicting high quality orthologue gene sets applicable to complete and draft genomes. *BMC Genomics*, **2017**, 18, 673	4.5	10
565	Maintaining Aedes aegypti Mosquitoes Infected with Wolbachia. *Journal of Visualized Experiments*, **2017**,	1.6	18
564	Are adult life history traits in oriental fruit moth affected by a mild pupal heat stress?. *Journal of Insect Physiology*, **2017**, 102, 36-41	2.4	9
563	Evidence of genomic adaptation to climate in Eucalyptus microcarpa: Implications for adaptive potential to projected climate change. *Molecular Ecology*, **2017**, 26, 6002-6020	5.7	42
562	Pyrethroid Susceptibility Has Been Maintained in the Dengue Vector, Aedes aegypti (Diptera: Culicidae), in Queensland, Australia. *Journal of Medical Entomology*, **2017**, 54, 1649-1658	2.2	26
561	Measuring the effects of reduced snow cover on Australia's alpine arthropods. *Austral Ecology*, **2017**, 42, 844-857	1.5	11
560	Bioclimatic transect networks: Powerful observatories of ecological change. *Ecology and Evolution*, **2017**, 7, 4607-4619	2.8	21
559	Testing the niche-breadth-range-size hypothesis: habitat specialization vs. performance in Australian alpine daisies. *Ecology*, **2017**, 98, 2708-2724	4.6	12
558	Detecting copper toxicity in sediments: from the subindividual level to the population level. *Journal of Applied Ecology*, **2017**, 54, 1331-1342	5.8	16
557	Separating multiple sources of variation on heat resistance in Drosophila hydei. *Journal of Insect Physiology*, **2017**, 96, 122-127	2.4	5
556	Toxicant mixtures in sediment alter gene expression in the cysteine metabolism of Chironomus tepperi. *Environmental Toxicology and Chemistry*, **2017**, 36, 691-698	3.8	9
555	Extensive Genetic Differentiation between Homomorphic Sex Chromosomes in the Mosquito Vector, Aedes aegypti. *Genome Biology and Evolution*, **2017**, 9, 2322-2335	3.9	25
554	Patterns of genetic variation among geographic and host-plant associated populations of the peach fruit moth Carposina sasakii (Lepidoptera: Carposinidae). *BMC Evolutionary Biology*, **2017**, 17, 265	3	9
553	Local introduction and heterogeneous spatial spread of dengue-suppressing Wolbachia through an urban population of Aedes aegypti. *PLoS Biology*, **2017**, 15, e2001894	9.7	155
552	Wolbachia Infections in Aedes aegypti Differ Markedly in Their Response to Cyclical Heat Stress. *PLoS Pathogens*, **2017**, 13, e1006006	7.6	123
551	Comparing the impacts of sediment-bound bifenthrin on aquatic macroinvertebrates in laboratory bioassays and field microcosms. *Ecotoxicology and Environmental Safety*, **2016**, 133, 489-500	7	11
550	Heritability and evolvability of fitness and nonfitness traits: Lessons from livestock. *Evolution; International Journal of Organic Evolution*, **2016**, 70, 1770-9	3.8	25

549	Incorporating evolutionary adaptation in species distribution modelling reduces projected vulnerability to climate change. *Ecology Letters*, **2016**, 19, 1468-1478	10	128
548	Rapid genetic structuring of populations of the invasive fall webworm in relation to spatial expansion and control campaigns. *Diversity and Distributions*, **2016**, 22, 1276-1287	5	24
547	Identification of two lineages of host-associated eriophyoid mites predisposed to different levels of host diversification. *Molecular Phylogenetics and Evolution*, **2016**, 105, 235-240	4.1	11
546	Landscape genomics reveals altered genome wide diversity within revegetated stands of Eucalyptus microcarpa (Grey Box). *New Phytologist*, **2016**, 212, 992-1006	9.8	18
545	Warming Accelerates Carbohydrate Consumption in the Diapausing Overwintering Peach Fruit Moth Carposina sasakii (Lepidoptera: Carposinidae). *Environmental Entomology*, **2016**, 45, 1287-1293	2.1	17
544	A Meta-Analysis Evaluating the Relationship between Aquatic Contaminants and Chironomid Larval Deformities in Laboratory Studies. *Environmental Science & Technology*, **2016**, 50, 12903-12911	10.3	10
543	The broad footprint of climate change from genes to biomes to people. *Science*, **2016**, 354,	33.3	573
542	Predicting Wolbachia invasion dynamics in Aedes aegypti populations using models of density-dependent demographic traits. *BMC Biology*, **2016**, 14, 96	7.3	34
541	Climate adaptation and ecological restoration in eucalypts. *Proceedings of the Royal Society of Victoria*, **2016**, 128, 40	1.1	27
540	Variability in development of the striped rice borer, Chilo suppressalis (Lepidoptera: Pyralidae), due to instar number and last instar duration. *Scientific Reports*, **2016**, 6, 35231	4.9	1
539	Extensive variation, but not local adaptation in an Australian alpine daisy. *Ecology and Evolution*, **2016**, 6, 5459-72	2.8	8
538	Conservation of genetic uniqueness of populations may increase extinction likelihood of endangered species: the case of Australian mammals. *Frontiers in Zoology*, **2016**, 13, 31	2.8	71
537	Persistence of a Wolbachia infection frequency cline in Drosophila melanogaster and the possible role of reproductive dormancy. *Evolution; International Journal of Organic Evolution*, **2016**, 70, 979-97	3.8	73
536	Salinized rivers: degraded systems or new habitats for salt-tolerant faunas?. *Biology Letters*, **2016**, 12, 20151072	3.6	90
535	Emergence of the overwintering generation of peach fruit moth (Carposina sasakii) depends on diapause and spring soil temperatures. *Journal of Insect Physiology*, **2016**, 86, 32-9	2.4	25
534	Spatial and Temporal Variation in Aedes aegypti and Aedes albopictus (Diptera: Culicidae) Numbers in the Yogyakarta Area of Java, Indonesia, With Implications for Wolbachia Releases. *Journal of Medical Entomology*, **2016**, 53, 188-98	2.2	10
533	What Can Plasticity Contribute to Insect Responses to Climate Change?. *Annual Review of Entomology*, **2016**, 61, 433-51	21.8	262
532	Mitochondrial DNA variants help monitor the dynamics of Wolbachia invasion into host populations. *Heredity*, **2016**, 116, 265-76	3.6	20

531	Biological Invasions, Climate Change, and Genomics **2016**, 37-70		1
530	Taiwanese Trichogramma of Asian Corn Borer: Morphology, ITS-2 rDNA Characterization, and Natural Wolbachia Infection. *Journal of Insect Science*, **2016**, 16,	2	3
529	Costs of Three Wolbachia Infections on the Survival of Aedes aegypti Larvae under Starvation Conditions. *PLoS Neglected Tropical Diseases*, **2016**, 10, e0004320	4.8	47
528	The queenslandensis and the type Form of the Dengue Fever Mosquito (Aedes aegypti L.) Are Genomically Indistinguishable. *PLoS Neglected Tropical Diseases*, **2016**, 10, e0005096	4.8	11
527	Trichogramma parasitoids for control of Lepidopteran borers in Taiwan: species, life-history traits and Wolbachia infections. *Journal of Applied Entomology*, **2016**, 140, 353-363	1.7	12
526	Tropical Drosophila pandora carry Wolbachia infections causing cytoplasmic incompatibility or male killing. *Evolution; International Journal of Organic Evolution*, **2016**, 70, 1791-802	3.8	21
525	Contrasting patterns of population connectivity between regions in a commercially important mollusc Haliotis rubra: integrating population genetics, genomics and marine LiDAR data. *Molecular Ecology*, **2016**, 25, 3845-64	5.7	20
524	Novel applications of thermocyclers for phenotyping invertebrate thermal responses. *Methods in Ecology and Evolution*, **2016**, 7, 1201-1208	7.7	11
523	Density-dependent population dynamics in Aedes aegypti slow the spread of wMel Wolbachia. *Journal of Applied Ecology*, **2016**, 53, 785-793	5.8	46
522	Evolutionary potential of multiple measures of upper thermal tolerance in Drosophila melanogaster. *Functional Ecology*, **2016**, 30, 442-452	5.6	55
521	Inbreeding depression as a compromising factor in ecotoxicological assays. *Integrated Environmental Assessment and Management*, **2016**, 12, 595-7	2.5	3
520	Scale-dependent thermal tolerance variation in Australian mountain grasshoppers. *Ecography*, **2016** , 39, 572-582	6.5	16
519	Distribution and influence of grazing on wheat curl mites (Aceria tosichella Keifer) within a wheat field. *Journal of Applied Entomology*, **2016**, 140, 426-433	1.7	3
518	Digenean trematode cysts within the heads of threatened Galaxiella species (Teleostei : Galaxiidae) from south-eastern Australia. *Australian Journal of Zoology*, **2016**, 64, 285	0.5	2
517	Genetic analysis along an invasion pathway reveals endemic cryptic taxa, but a single species with little population structure in the introduced range. *Diversity and Distributions*, **2016**, 22, 57-72	5	15
516	Fitness of wAlbB Wolbachia Infection in Aedes aegypti: Parameter Estimates in an Outcrossed Background and Potential for Population Invasion. *American Journal of Tropical Medicine and Hygiene*, **2016**, 94, 507-16	3.2	70
515	Cross-Study Comparison Reveals Common Genomic, Network, and Functional Signatures of Desiccation Resistance in Drosophila melanogaster. *Molecular Biology and Evolution*, **2016**, 33, 1053-67	8.3	21
514	Response of heat shock protein genes of the oriental fruit moth under diapause and thermal stress reveals multiple patterns dependent on the nature of stress exposure. *Cell Stress and Chaperones*, **2016**, 21, 653-63	4	18

513	Effects of Lumbriculus variegatus (Annelida, Oligochaete) bioturbation on zinc sediment chemistry and toxicity to the epi-benthic invertebrate Chironomus tepperi (Diptera: Chironomidae). *Environmental Pollution*, **2016**, 216, 198-207	9.3	16
512	Potential impact of climate change on parasitism efficiency of egg parasitoids: A meta-analysis of Trichogramma under variable climate conditions. *Agriculture, Ecosystems and Environment*, **2016**, 231, 143-155	5.7	16
511	Mechanistic models for predicting insect responses to climate change. *Current Opinion in Insect Science*, **2016**, 17, 81-86	5.1	34
510	Assessing species vulnerability to climate change. *Nature Climate Change*, **2015**, 5, 215-224	21.4	576
509	A framework for incorporating evolutionary genomics into biodiversity conservation and management. *Climate Change Responses*, **2015**, 2,		110
508	What can livestock breeders learn from conservation genetics and vice versa?. *Frontiers in Genetics*, **2015**, 6, 38	4.5	58
507	Coccinellid abundance in shelterbelts is affected more by adjacent crop type and aphid abundance than vegetation characteristics. *Biological Control*, **2015**, 87, 47-55	3.8	5
506	Genetic, molecular and physiological basis of variation in Drosophila gut immunocompetence. *Nature Communications*, **2015**, 6, 7829	17.4	42
505	The Parthenogenetic Cosmopolitan Chironomid, Paratanytarsus grimmii, as a New Standard Test Species for Ecotoxicology: Culturing Methodology and Sensitivity to Aqueous Pollutants. *Bulletin of Environmental Contamination and Toxicology*, **2015**, 95, 350-6	2.7	7
504	Detection of Low-Level Cardinium and Wolbachia Infections in Culicoides. *Applied and Environmental Microbiology*, **2015**, 81, 6177-88	4.8	42
503	Quantitative tools and simultaneous actions needed for species conservation under climate change-Reply to Shoo et al. (2013). *Climatic Change*, **2015**, 129, 9-11	4.5	
502	A multi-platform metabolomics approach demonstrates changes in energy metabolism and the transsulfuration pathway in Chironomus tepperi following exposure to zinc. *Aquatic Toxicology*, **2015**, 162, 54-65	5.1	26
501	Modeling rates of life form cover change in burned and unburned alpine heathland subject to experimental warming. *Oecologia*, **2015**, 178, 615-28	2.9	14
500	Ground cover and floral resources in shelterbelts increase the abundance of beneficial hymenopteran families. *Agricultural and Forest Entomology*, **2015**, 17, 120-128	1.9	15
499	Genomic evidence for role of inversion 3RP of Drosophila melanogaster in facilitating climate change adaptation. *Molecular Ecology*, **2015**, 24, 2423-32	5.7	36
498	Biological invasions, climate change and genomics. *Evolutionary Applications*, **2015**, 8, 23-46	4.8	150
497	Genetic structure of the whitefly Bemisia tabaci populations in Colombia following a recent invasion. *Insect Science*, **2015**, 22, 483-94	3.6	11
496	Developing Exon-Primed Intron-Crossing (EPIC) markers for population genetic studies in three Aedes disease vectors. *Insect Science*, **2015**, 22, 409-23	3.6	5

495	Wolbachia strains for disease control: ecological and evolutionary considerations. *Evolutionary Applications*, **2015**, 8, 751-68	4.8	124
494	Contrasting genetic structure between mitochondrial and nuclear markers in the dengue fever mosquito from Rio de Janeiro: implications for vector control. *Evolutionary Applications*, **2015**, 8, 901-15	4.8	28
493	Experimental Evolution under Fluctuating Thermal Conditions Does Not Reproduce Patterns of Adaptive Clinal Differentiation in Drosophila melanogaster. *American Naturalist*, **2015**, 186, 582-93	3.7	27
492	A collection of Australian Drosophila datasets on climate adaptation and species distributions. *Scientific Data*, **2015**, 2, 150067	8.2	14
491	Aedes aegypti has spatially structured and seasonally stable populations in Yogyakarta, Indonesia. *Parasites and Vectors*, **2015**, 8, 610	4	30
490	An International Union for the Conservation of Nature Red List ecosystems risk assessment for alpine snow patch herbfields, South-Eastern Australia. *Austral Ecology*, **2015**, 40, 433-443	1.5	21
489	Natural enemies of soft scale insects (Hemiptera: Coccoidea: Coccidae) in Australian vineyards. *Australian Journal of Grape and Wine Research*, **2015**, 21, 302-310	2.4	3
488	Effects of aphid feeding and associated virus injury on grain crops in Australia. *Austral Entomology*, **2015**, 54, 292-305	1.1	29
487	Challenges in devising economic spray thresholds for a major pest of Australian canola, the redlegged earth mite (Halotydeus destructor). *Pest Management Science*, **2015**, 71, 1462-70	4.6	6
486	Extending spatial modelling of climate change responses beyond the realized niche: estimating, and accommodating, physiological limits and adaptive evolution. *Global Ecology and Biogeography*, **2015**, 24, 1192-1202	6.1	51
485	Delineating closely related species with DNA barcodes for routine biological monitoring. *Freshwater Biology*, **2015**, 60, 1545-1560	3.1	20
484	Climate change expected to drive habitat loss for two key herbivore species in an alpine environment. *Journal of Biogeography*, **2015**, 42, 1210-1221	4.1	7
483	Association between Three Mutations, F1565C, V1023G and S996P, in the Voltage-Sensitive Sodium Channel Gene and Knockdown Resistance in Aedes aegypti from Yogyakarta, Indonesia. *Insects*, **2015**, 6, 658-85	2.8	55
482	A Framework for Identifying Selective Chemical Applications for IPM in Dryland Agriculture. *Insects*, **2015**, 6, 988-1012	2.8	8
481	The ReFuGe 2020 Consortium□using □omics□approaches to explore the adaptability and resilience of coral holobionts to environmental change. *Frontiers in Marine Science*, **2015**, 2,	4.5	14
480	Application of wMelPop Wolbachia Strain to Crash Local Populations of Aedes aegypti. *PLoS Neglected Tropical Diseases*, **2015**, 9, e0003930	4.8	68
479	Stress Responses of Small Heat Shock Protein Genes in Lepidoptera Point to Limited Conservation of Function across Phylogeny. *PLoS ONE*, **2015**, 10, e0132700	3.7	13
478	A review of Galaxiella pusilla (Mack) (Teleostei: Galaxiidae) in south-eastern Australia with a description of a new species. *Zootaxa*, **2015**, 4021, 243-81	0.5	12

477	Predicting the timing of first generation egg hatch for the pest redlegged earth mite Halotydeus destructor (Acari: Penthaleidae). *Experimental and Applied Acarology*, **2015**, 65, 259-76	2.1	13
476	Daily temperature extremes play an important role in predicting thermal effects. *Journal of Experimental Biology*, **2015**, 218, 2289-96	3	45
475	Impact of hot events at different developmental stages of a moth: the closer to adult stage, the less reproductive output. *Scientific Reports*, **2015**, 5, 10436	4.9	54
474	Field evaluation of the establishment potential of wMelPop Wolbachia in Australia and Vietnam for dengue control. *Parasites and Vectors*, **2015**, 8, 563	4	128
473	Low evolutionary potential for egg-to-adult viability in Drosophila melanogaster at high temperatures. *Evolution; International Journal of Organic Evolution*, **2015**, 69, 803-14	3.8	31
472	Comparative phylogeography of alpine invertebrates indicates deep lineage diversification and historical refugia in the Australian Alps. *Journal of Biogeography*, **2015**, 42, 89-102	4.1	19
471	Geographical limits to species-range shifts are suggested by climate velocity. *Nature*, **2014**, 507, 492-5	50.4	343
470	Microclimate modelling at macro scales: a test of a general microclimate model integrated with gridded continental-scale soil and weather data. *Methods in Ecology and Evolution*, **2014**, 5, 273-286	7.7	93
469	Sensitivity to thermal extremes in Australian Drosophila implies similar impacts of climate change on the distribution of widespread and tropical species. *Global Change Biology*, **2014**, 20, 1738-50	11.4	151
468	Limited genetic divergence among Australian alpine Poa tussock grasses coupled with regional structuring points to ongoing gene flow and taxonomic challenges. *Annals of Botany*, **2014**, 113, 953-65	4.1	13
467	Ecological evidence links adverse biological effects to pesticide and metal contamination in an urban Australian watershed. *Journal of Applied Ecology*, **2014**, 51, 426-439	5.8	44
466	Evidence for adaptive divergence of thermal responses among Bemisia tabaci populations from tropical Colombia following a recent invasion. *Journal of Evolutionary Biology*, **2014**, 27, 1160-71	2.3	12
465	Transgenerational effects of parental nutritional status on offspring development time, survival, fecundity, and sensitivity to zinc in Chironomus tepperi midges. *Ecotoxicology and Environmental Safety*, **2014**, 110, 1-7	7	13
464	Larval competition extends developmental time and decreases adult size of wMelPop Wolbachia-infected Aedes aegypti. *American Journal of Tropical Medicine and Hygiene*, **2014**, 91, 198-205	3.2	44
463	Foundations for the future: A long-term plan for Australian ecosystem science. *Austral Ecology*, **2014**, 39, 739-748	1.5	10
462	Potential new sources of wheat curl mite resistance in wheat to prevent the spread of yield-reducing pathogens. *Experimental and Applied Acarology*, **2014**, 64, 1-19	2.1	8
461	Genome-wide SNPs lead to strong signals of geographic structure and relatedness patterns in the major arbovirus vector, Aedes aegypti. *BMC Genomics*, **2014**, 15, 275	4.5	116
460	Genes involved in cysteine metabolism of Chironomus tepperi are regulated differently by copper and by cadmium. *Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology*, **2014**, 162, 1-6	3.2	14

459	Using Wolbachia-based release for suppression of Aedes mosquitoes: insights from genetic data and population simulations **2014**, 24, 1226-34		34
458	Estimating Densities of the Pest Halotydeus destructor (Acari: Penthaleidae) in Canola. *Journal of Economic Entomology*, **2014**, 107, 2204-12	2.2	4
457	A single hot event stimulates adult performance but reduces egg survival in the oriental fruit moth, Grapholitha molesta. *PLoS ONE*, **2014**, 9, e116339	3.7	20
456	Field validation of the gravid Aedes trap (GAT) for collection of Aedes aegypti (Diptera: Culicidae). *Journal of Medical Entomology*, **2014**, 51, 210-9	2.2	64
455	Strong genetic structure corresponds to small-scale geographic breaks in the Australian alpine grasshopper Kosciuscola tristis. *BMC Evolutionary Biology*, **2014**, 14, 204	3	14
454	The effect of virus-blocking Wolbachia on male competitiveness of the dengue vector mosquito, Aedes aegypti. *PLoS Neglected Tropical Diseases*, **2014**, 8, e3294	4.8	41
453	Stability of the wMel Wolbachia Infection following invasion into Aedes aegypti populations. *PLoS Neglected Tropical Diseases*, **2014**, 8, e3115	4.8	204
452	Phylogeny of the holly grevilleas (Proteaceae) based on nuclear ribosomal and chloroplast DNA. *Australian Systematic Botany*, **2014**, 27, 56	1	11
451	Night warming on hot days produces novel impacts on development, survival and reproduction in a small arthropod. *Journal of Animal Ecology*, **2014**, 83, 769-78	4.7	65
450	Invasion of Wolbachia at the residential block level is associated with local abundance of Stegomyia aegypti, yellow fever mosquito, populations and property attributes. *Medical and Veterinary Entomology*, **2014**, 28 Suppl 1, 90-7	2.4	20
449	Measuring the plasticity of developmental rate across insect populations: comment on Rocha and Klaczko (2012). *Evolution; International Journal of Organic Evolution*, **2014**, 68, 1544-7	3.8	2
448	Facilitating Wolbachia invasions. *Austral Entomology*, **2014**, 53, 125-132	1.1	12
447	Predicting the spread of Aedes albopictus in Australia under current and future climates: Multiple approaches and datasets to incorporate potential evolutionary divergence. *Austral Ecology*, **2014**, 39, 469-478	1.5	31
446	Assessing quality of life-shortening Wolbachia-infected Aedes aegypti mosquitoes in the field based on capture rates and morphometric assessments. *Parasites and Vectors*, **2014**, 7, 58	4	54
445	Genetic isolation by environment or distance: which pattern of gene flow is most common?. *Evolution; International Journal of Organic Evolution*, **2014**, 68, 1-15	3.8	403
444	Does thermal variability experienced at the egg stage influence life history traits across life cycle stages in a small invertebrate?. *PLoS ONE*, **2014**, 9, e99500	3.7	23
443	A replicated comparison of breeding-container suitability for the dengue vector Aedes aegypti in tropical and temperate Australia. *Austral Ecology*, **2013**, 38, 219-229	1.5	8
442	Upper thermal limits in terrestrial ectotherms: how constrained are they?. *Functional Ecology*, **2013**, 27, 934-949	5.6	397

441	Complexity of the genetic basis of ageing in nature revealed by a clinal study of lifespan and methuselah, a gene for ageing, in Drosophila from eastern Australia. *Molecular Ecology*, **2013**, 22, 3539-51	5.7	17
440	Patterns of genetic variation across inversions: geographic variation in the In(2L)t inversion in populations of Drosophila melanogaster from eastern Australia. *BMC Evolutionary Biology*, **2013**, 13, 100	3	19
439	Assessing the relative importance of environmental effects, carry-over effects and species differences in thermal stress resistance: a comparison of Drosophilids across field and laboratory generations. *Journal of Experimental Biology*, **2013**, 216, 3790-8	3	28
438	Environmental monitoring using next generation sequencing: rapid identification of macroinvertebrate bioindicator species. *Frontiers in Zoology*, **2013**, 10, 45	2.8	153
437	Mitochondrial DNA suggests a single maternal origin for the widespread triploid parthenogenetic pest species, Paratanytarsus grimmii, but microsatellite variation shows local endemism. *Insect Science*, **2013**, 20, 345-57	3.6	5
436	Evidence of cryptic genetic lineages within Aedes notoscriptus (Skuse). *Infection, Genetics and Evolution*, **2013**, 18, 191-201	4.5	15
435	Phylogenetic analyses reveal extensive cryptic speciation and host specialization in an economically important mite taxon. *Molecular Phylogenetics and Evolution*, **2013**, 66, 928-40	4.1	50
434	Spatial scale of benefits from adjacent woody vegetation on natural enemies within vineyards. *Biological Control*, **2013**, 64, 57-65	3.8	56
433	III.8. Evolutionary Limits and Constraints **2013**, 247-252		4
432	A predicted niche shift corresponds with increased thermal resistance in an invasive mite, Halotydeus destructor. *Global Ecology and Biogeography*, **2013**, 22, 942-951	6.1	73
431	Making decisions to conserve species under climate change. *Climatic Change*, **2013**, 119, 239-246	4.5	64
430	Effect of Wolbachia on insecticide susceptibility in lines of Aedes aegypti. *Bulletin of Entomological Research*, **2013**, 103, 269-77	1.7	14
429	Polymorphism in the neurofibromin gene, Nf1, is associated with antagonistic selection on wing size and development time in Drosophila melanogaster. *Molecular Ecology*, **2013**, 22, 2716-25	5.7	16
428	Balancing genetic uniqueness and genetic variation in determining conservation and translocation strategies: a comprehensive case study of threatened dwarf galaxias, Galaxiella pusilla (Mack) (Pisces: Galaxiidae). *Molecular Ecology*, **2013**, 22, 1820-35	5.7	34
427	Genetic Structure of Carex Species from the Australian Alpine Region along Elevation Gradients: Patterns of Reproduction and Gene Flow. *International Journal of Plant Sciences*, **2013**, 174, 189-199	2.6	6
426	Inconsistent responses of alpine arthropod communities to experimental warming and thermal gradients. *Climate Research*, **2013**, 55, 227-237	1.6	9
425	Impact of Halotydeus destructor on crop seedlings at different plant developmental stages and levels of moisture stress. *Environmental Entomology*, **2013**, 42, 998-1012	2.1	4
424	Novel estimates of Aedes aegypti (Diptera: Culicidae) population size and adult survival based on Wolbachia releases. *Journal of Medical Entomology*, **2013**, 50, 624-31	2.2	42

423	Population genetic structure of Aedes (Stegomyia) aegypti (L.) at a micro-spatial scale in Thailand: implications for a dengue suppression strategy. *PLoS Neglected Tropical Diseases*, **2013**, 7, e1913	4.8	36
422	Rapid sequential spread of two Wolbachia variants in Drosophila simulans. *PLoS Pathogens*, **2013**, 9, e1003607	7.6	121
421	Facilitating Wolbachia introductions into mosquito populations through insecticide-resistance selection. *Proceedings of the Royal Society B: Biological Sciences*, **2013**, 280, 20130371	4.4	26
420	A single hot event that does not affect survival but decreases reproduction in the diamondback moth, Plutella xylostella. *PLoS ONE*, **2013**, 8, e75923	3.7	40
419	Body size and wing shape measurements as quality indicators of Aedes aegypti mosquitoes destined for field release. *American Journal of Tropical Medicine and Hygiene*, **2013**, 89, 78-92	3.2	52
418	Synthetic pesticides in agro-ecosystems: are they as detrimental to nontarget invertebrate fauna as we suspect?. *Journal of Economic Entomology*, **2013**, 106, 756-75	2.2	11
417	Soft scale insects (Hemiptera: Coccoidea: Coccidae) on grapevines in Australia. *Australian Journal of Entomology*, **2013**, 52, 371-378		6
416	New levels of transcriptome complexity at upper thermal limits in wild Drosophila revealed by exon expression analysis. *Genetics*, **2013**, 195, 809-30	4	20
415	Experimental warming and long-term vegetation dynamics in an alpine heathland. *Australian Journal of Botany*, **2013**, 61, 36	1.2	32
414	A comparison of inbreeding depression in tropical and widespread Drosophila species. *PLoS ONE*, **2013**, 8, e51176	3.7	9
413	Trait associations across evolutionary time within a drosophila phylogeny: correlated selection or genetic constraint?. *PLoS ONE*, **2013**, 8, e72072	3.7	12
412	A proline repeat polymorphism of the Frost gene of Drosophila melanogaster showing clinal variation but not associated with cold resistance. *Insect Molecular Biology*, **2012**, 21, 437-45	3.4	10
411	Phylogenetic constraints in key functional traits behind species' climate niches: patterns of desiccation and cold resistance across 95 Drosophila species. *Evolution; International Journal of Organic Evolution*, **2012**, 66, 3377-89	3.8	194
410	Microgeographic adaptation linked to forest fragmentation and habitat quality in the tropical fruit fly Drosophila birchii. *Oikos*, **2012**, 121, 1627-1637	4	19
409	Distribution of cryptic blue oat mite species in Australia: current and future climate conditions. *Agricultural and Forest Entomology*, **2012**, 14, 127-137	1.9	19
408	Genetics of climate change adaptation. *Annual Review of Genetics*, **2012**, 46, 185-208	14.5	252
407	Upper thermal limits of Drosophila are linked to species distributions and strongly constrained phylogenetically. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 16228-33	11.5	339
406	MRI blood-brain barrier permeability measurements to predict hemorrhagic transformation in a rat model of ischemic stroke. *Translational Stroke Research*, **2012**, 3, 508-16	7.8	6

405	Food limitation in Chironomus tepperi: effects on survival, sex ratios and development across two generations. *Ecotoxicology and Environmental Safety*, **2012**, 84, 1-8	7	16
404	Effective invertebrate pest management in dryland cropping in southern Australia: The challenge of marginality. *Crop Protection*, **2012**, 42, 289-304	2.7	16
403	Genetic structure and diversity of introduced eastern mosquitofish (Gambusia holbrooki) in south-eastern Australia. *Marine and Freshwater Research*, **2012**, 63, 1206	2.2	9
402	Limited benefits of non-crop vegetation on spiders in Australian vineyards: regional or crop differences?. *BioControl*, **2012**, 57, 541-552	2.3	29
401	Understanding niche shifts: using current and historical data to model the invasive redlegged earth mite, Halotydeus destructor. *Diversity and Distributions*, **2012**, 18, 191-203	5	43
400	Value of long-term ecological studies. *Austral Ecology*, **2012**, 37, 745-757	1.5	240
399	Comparing phenotypic effects and molecular correlates of developmental, gradual and rapid cold acclimation responses in Drosophila melanogaster. *Functional Ecology*, **2012**, 26, 84-93	5.6	131
398	Physical and Linkage Maps for Drosophila serrata, a Model Species for Studies of Clinal Adaptation and Sexual Selection. *G3: Genes, Genomes, Genetics*, **2012**, 2, 287-97	3.2	10
397	Mortality of Australian alpine grasses (Poa spp.) after drought: species differences and ecological patterns. *Journal of Plant Ecology*, **2012**, 5, 121-133	1.7	20
396	Population genetics of the wheat curl mite (Aceria tosichella Keifer) in Australia: implications for the management of wheat pathogens. *Bulletin of Entomological Research*, **2012**, 102, 199-212	1.7	17
395	High-throughput PCR assays to monitor Wolbachia infection in the dengue mosquito (Aedes aegypti) and Drosophila simulans. *Applied and Environmental Microbiology*, **2012**, 78, 4740-3	4.8	68
394	High resolution mapping of candidate alleles for desiccation resistance in Drosophila melanogaster under selection. *Molecular Biology and Evolution*, **2012**, 29, 1335-51	8.3	25
393	Genome-wide transcription analysis of clinal genetic variation in Drosophila. *PLoS ONE*, **2012**, 7, e34620	3.7	13
392	Successful establishment of Wolbachia in Aedes populations to suppress dengue transmission. *Nature*, **2011**, 476, 454-7	50.4	984
391	Thermal sensitivity of Aedes aegypti from Australia: empirical data and prediction of effects on distribution. *Journal of Medical Entomology*, **2011**, 48, 914-23	2.2	34
390	Thermal tolerance in widespread and tropical Drosophila species: does phenotypic plasticity increase with latitude?. *American Naturalist*, **2011**, 178 Suppl 1, S80-96	3.7	182
389	Assessing population and environmental effects on thermal resistance in Drosophila melanogaster using ecologically relevant assays. *Journal of Thermal Biology*, **2011**, 36, 409-416	2.9	52
388	Is body size variation in the platypus (Ornithorhynchus anatinus) associated with environmental variables?. *Australian Journal of Zoology*, **2011**, 59, 201	0.5	10

387	Environmental stress-dependent effects of deletions encompassing Hsp70Ba on canalization and quantitative trait asymmetry in Drosophila melanogaster. *PLoS ONE*, **2011**, 6, e17295	3.7	18
386	A re-examination of Wolbachia-induced cytoplasmic incompatibility in California Drosophila simulans. *PLoS ONE*, **2011**, 6, e22565	3.7	33
385	Validation of in vivo magnetic resonance imaging blood-brain barrier permeability measurements by comparison with gold standard histology. *Stroke*, **2011**, 42, 2054-60	6.7	24
384	High diversity of ants in Australian vineyards. *Australian Journal of Entomology*, **2011**, 50, 7-21		4
383	The distribution, abundance and life cycle of the pest mites Balaustium medicagoense (Prostigmata: Erythraeidae) and Bryobia spp. (Prostigmata: Tetranychidae) in Australia. *Australian Journal of Entomology*, **2011**, 50, 22-36		6
382	Impact of groundcover manipulations within windbreaks on mite pests and their natural enemies. *Australian Journal of Entomology*, **2011**, 50, 37-47		18
381	Local-scale spatial dynamics of ants in a temperate agroecosystem. *Austral Ecology*, **2011**, 36, 413-424	1.5	3
380	The molecular genetics of clinal variation: a case study of ebony and thoracic trident pigmentation in Drosophila melanogaster from eastern Australia. *Molecular Ecology*, **2011**, 20, 2100-10	5.7	54
379	Polymorphism in the couch potato gene clines in eastern Australia but is not associated with ovarian dormancy in Drosophila melanogaster. *Molecular Ecology*, **2011**, 20, 2973-84	5.7	37
378	No inbreeding depression for low temperature developmental acclimation across multiple Drosophila species. *Evolution; International Journal of Organic Evolution*, **2011**, 65, 3195-201	3.8	15
377	Genetic mapping of adaptive wing size variation in Drosophila simulans. *Heredity*, **2011**, 107, 22-9	3.6	7
376	Climate change and evolutionary adaptation. *Nature*, **2011**, 470, 479-85	50.4	1862
375	Phenotypic plasticity in upper thermal limits is weakly related to Drosophila species distributions. *Functional Ecology*, **2011**, 25, 661-670	5.6	58
374	Building evolutionary resilience for conserving biodiversity under climate change. *Evolutionary Applications*, **2011**, 4, 326-37	4.8	491
373	Assessing the benefits and risks of translocations in changing environments: a genetic perspective. *Evolutionary Applications*, **2011**, 4, 709-725	4.8	515
372	Does Bdellodes lapidaria (Acari: Bdellidae) have a role in biological control of the springtail pest, Sminthurus viridis (Collembola: Sminthuridae) in south-eastern Australia?. *Biological Control*, **2011**, 58, 222-229	3.8	10
371	The wMel Wolbachia strain blocks dengue and invades caged Aedes aegypti populations. *Nature*, **2011**, 476, 450-3	50.4	841
370	Phylogenetic signals and ecotoxicological responses: potential implications for aquatic biomonitoring. *Ecotoxicology*, **2011**, 20, 595-606	2.9	38

369	A next-generation sequencing method for overcoming the multiple gene copy problem in polyploid phylogenetics, applied to Poa grasses. *BMC Biology*, **2011**, 9, 19	7.3	70
368	Variation in morphological characters of two invasive leafminers, Liriomyza huidobrensis and L. sativae, across a tropical elevation gradient. *Journal of Insect Science*, **2011**, 11, 69	2	7
367	Pest management challenges for biofuel crop production. *Current Opinion in Environmental Sustainability*, **2011**, 3, 95-99	7.2	13
366	Molecular basis of adaptive shift in body size in Drosophila melanogaster: functional and sequence analyses of the Dca gene. *Molecular Biology and Evolution*, **2011**, 28, 2393-402	8.3	26
365	Did hybridization save the Norfolk Island boobook owl Ninox novaeseelandiae undulata?. *Oryx*, **2011**, 45, 500-504	1.5	18
364	Ecologically relevant measures of tolerance to potentially lethal temperatures. *Journal of Experimental Biology*, **2011**, 214, 3713-25	3	286
363	A combination of molecular and morphological approaches resolves species in the taxonomically difficult genus Procladius Skuse (Diptera: Chironomidae) despite high intra-specific morphological variation. *Bulletin of Entomological Research*, **2011**, 101, 505-19	1.7	24
362	Dynamics of the "popcorn" Wolbachia infection in outbred Aedes aegypti informs prospects for mosquito vector control. *Genetics*, **2011**, 187, 583-95	4	133
361	Changes in the genetic structure of Aedes aegypti (Diptera: Culicidae) populations in Queensland, Australia, across two seasons: implications for potential mosquito releases. *Journal of Medical Entomology*, **2011**, 48, 999-1007	2.2	38
360	Candidate genes detected in transcriptome studies are strongly dependent on genetic background. *PLoS ONE*, **2011**, 6, e15644	3.7	34
359	Population dynamics and diapause response of the springtail pest Sminthurus viridis (Collembola: Sminthuridae) in southeastern Australia. *Journal of Economic Entomology*, **2011**, 104, 465-73	2.2	8
358	The genetic architecture of wing size divergence at varying spatial scales along a body size cline in Drosophila melanogaster. *Evolution; International Journal of Organic Evolution*, **2010**, 64, 1935-43	3.8	3
357	Identifying factors determining the altitudinal distribution of the invasive pest leafminers Liriomyza huidobrensis and Liriomyza sativae. *Entomologia Experimentalis Et Applicata*, **2010**, 135, 141-153	2.1	16
356	Temporal expression of heat shock genes during cold stress and recovery from chill coma in adult Drosophila melanogaster. *FEBS Journal*, **2010**, 277, 174-85	5.7	186
355	Thermal ramping rate influences evolutionary potential and species differences for upper thermal limits in Drosophila. *Functional Ecology*, **2010**, 24, 694-700	5.6	130
354	Phenological changes in six Australian subalpine plants in response to experimental warming and year-to-year variation. *Journal of Ecology*, **2010**, 98, 927-937	6	49
353	Identification of a candidate adaptive polymorphism for Drosophila life history by parallel independent clines on two continents. *Molecular Ecology*, **2010**, 19, 760-74	5.7	98
352	A clinally varying promoter polymorphism associated with adaptive variation in wing size in Drosophila. *Molecular Ecology*, **2010**, 19, 775-84	5.7	46

351	Influence of native ants on arthropod communities in a vineyard. *Agricultural and Forest Entomology* , **2010**, 12, 223	1.9	17
350	A genetic perspective on insect climate specialists. *Australian Journal of Entomology*, **2010**, 49, 93-103		25
349	A comprehensive assessment of geographic variation in heat tolerance and hardening capacity in populations of Drosophila melanogaster from eastern Australia. *Journal of Evolutionary Biology*, **2010**, 23, 2484-93	2.3	147
348	Genetic variation among Helicoverpa armigera populations as assessed by microsatellites: a cautionary tale about accurate allele scoring. *Bulletin of Entomological Research*, **2010**, 100, 445-50	1.7	12
347	Physiological climatic limits in Drosophila: patterns and implications. *Journal of Experimental Biology*, **2010**, 213, 870-80	3	264
346	Clone lineages of grape phylloxera differ in their performance on Vitis vinifera. *Bulletin of Entomological Research*, **2010**, 100, 671-8	1.7	12
345	A naturally occurring variant of Hsp90 that is associated with decanalization. *Proceedings of the Royal Society B: Biological Sciences*, **2010**, 277, 2049-57	4.4	25
344	Monitoring long-term evolutionary changes following Wolbachia introduction into a novel host: the Wolbachia popcorn infection in Drosophila simulans. *Proceedings of the Royal Society B: Biological Sciences*, **2010**, 277, 2059-68	4.4	31
343	Patterns of Genetic Variation and Host Adaptation in an Invasive Population of Rhopalosiphum padi (Hemiptera: Aphididae). *Annals of the Entomological Society of America*, **2010**, 103, 886-897	2	11
342	Knocking down expression of Hsp22 and Hsp23 by RNA interference affects recovery from chill coma in Drosophila melanogaster. *Journal of Experimental Biology*, **2010**, 213, 4146-50	3	61
341	Effects of native grass cover crops on beneficial and pest invertebrates in Australian vineyards. *Environmental Entomology*, **2010**, 39, 970-8	2.1	59
340	Functional characterization of the Frost gene in Drosophila melanogaster: importance for recovery from chill coma. *PLoS ONE*, **2010**, 5, e10925	3.7	42
339	Gene and protein expression of Drosophila Starvin during cold stress and recovery from chill coma. *Insect Biochemistry and Molecular Biology*, **2010**, 40, 425-8	4.5	32
338	Identifying signature of chemical applications on indigenous and invasive nontarget arthropod communities in vineyards **2010**, 20, 1693-703		34
337	Adapting to climate change: a perspective from evolutionary physiology. *Climate Research*, **2010**, 43, 3-15	1.6	337
336	Survival and reproduction of the pest mites Balaustium medicagoense and Bryobia spp. on winter grain crops. *Experimental and Applied Acarology*, **2010**, 52, 141-53	2.1	7
335	Low diversity and high levels of population genetic structuring in introduced eastern mosquitofish (Gambusia holbrooki) in the greater Melbourne area, Australia. *Biological Invasions*, **2010**, 12, 3727-3744	2.7	26
334	Microsatellite markers and mtDNA data indicate two distinct groups in dwarf galaxias, Galaxiella pusilla (Mack) (Pisces: Galaxiidae), a threatened freshwater fish from south-eastern Australia. *Conservation Genetics*, **2010**, 11, 1911-1928	2.6	17

333	Effects of small Hsp genes on developmental stability and microenvironmental canalization. *BMC Evolutionary Biology*, **2010**, 10, 284	3	69
332	Isolating the impact of sediment toxicity in urban streams. *Environmental Pollution*, **2010**, 158, 1716-25	9.3	42
331	Selective control of mite and collembolan pests of pastures and grain crops in Australia. *Crop Protection*, **2010**, 29, 190-196	2.7	10
330	Predicting the effects of climate change on natural enemies of agricultural pests. *Biological Control*, **2010**, 52, 296-306	3.8	256
329	Natural enemy responses and pest control: Importance of local vegetation. *Biological Control*, **2010**, 52, 160-166	3.8	60
328	Effect of woody vegetation at the landscape scale on the abundance of natural enemies in Australian vineyards. *Biological Control*, **2010**, 54, 248-254	3.8	26
327	Combining rapid bioassessment and field-based microcosms for identifying impacts in an urban river. *Environmental Toxicology and Chemistry*, **2010**, 29, 1773-80	3.8	6
326	Adult heat tolerance variation in Drosophila melanogaster is not related to Hsp70 expression. *Journal of Experimental Zoology*, **2010**, 313, 35-44		35
325	Genetic structure of Aedes aegypti in Australia and Vietnam revealed by microsatellite and exon primed intron crossing markers suggests feasibility of local control options. *Journal of Medical Entomology*, **2009**, 46, 1074-83	2.2	36
324	Characterizing the Aedes aegypti population in a Vietnamese village in preparation for a Wolbachia-based mosquito control strategy to eliminate dengue. *PLoS Neglected Tropical Diseases*, **2009**, 3, e552	4.8	59
323	Lack of Strong Local Adaptation in the Alpine Forb Craspedia lamicola in Southeastern Australia. *International Journal of Plant Sciences*, **2009**, 170, 906-917	2.6	16
322	Testing evolutionary hypotheses about species borders: patterns of genetic variation towards the southern borders of two rainforest Drosophila and a related habitat generalist. *Proceedings of the Royal Society B: Biological Sciences*, **2009**, 276, 1517-26	4.4	34
321	Molecular markers indicate that the wheat curl mite, Aceria tosichella Keifer, may represent a species complex in Australia. *Bulletin of Entomological Research*, **2009**, 99, 479-86	1.7	62
320	Selection for cold resistance alters gene transcript levels in Drosophila melanogaster. *Journal of Insect Physiology*, **2009**, 55, 549-55	2.4	63
319	Cover crops in Victorian apple orchards: Effects on production, natural enemies and pests across a season. *Crop Protection*, **2009**, 28, 675-683	2.7	39
318	Divergent levels of genetic variation and ploidy among populations of the rare shrub, Grevillea repens (Proteaceae). *Conservation Genetics*, **2009**, 10, 827-837	2.6	22
317	Integrating biophysical models and evolutionary theory to predict climatic impacts on species ranges: the dengue mosquito Aedes aegypti in Australia. *Functional Ecology*, **2009**, 23, 528-538	5.6	302
316	The distribution of wheat curl mite (Aceria tosichella) lineages in Australia and their potential to transmit wheat streak mosaic virus. *Annals of Applied Biology*, **2009**, 155, 371-379	2.6	31

315	Plasticity versus environmental canalization: population differences in thermal responses along a latitudinal gradient in Drosophila serrata. *Evolution; International Journal of Organic Evolution*, **2009**, 63, 1954-63	3.8	90
314	The popcorn Wolbachia infection of Drosophila melanogaster: can selection alter Wolbachia longevity effects?. *Evolution; International Journal of Organic Evolution*, **2009**, 63, 2648-57	3.8	22
313	The tolerance of the lucerne flea, Sminthurus viridis (Collembola: Sminthuridae), to currently registered pesticides in Australia. *Australian Journal of Entomology*, **2009**, 48, 241-246		8
312	Morphological variation and floral abnormalities in a trigger plant across a narrow altitudinal gradient. *Austral Ecology*, **2009**, 34, 780-792	1.5	7
311	Demographic factors and genetic variation influence population persistence under environmental change. *Journal of Evolutionary Biology*, **2009**, 22, 124-33	2.3	96
310	Clinal variation in post-winter male fertility retention; an adaptive overwintering strategy in Drosophila melanogaster. *Journal of Evolutionary Biology*, **2009**, 22, 2438-44	2.3	8
309	The capacity of Drosophila to heat harden associates with low rates of heat-shocked protein synthesis. *Journal of Thermal Biology*, **2009**, 34, 327-331	2.9	9
308	Vegetation increases the abundance of natural enemies in vineyards. *Biological Control*, **2009**, 49, 259-269	3.8	80
307	Fundamental evolutionary limits in ecological traits drive Drosophila species distributions. *Science*, **2009**, 325, 1244-6	33.3	327
306	Drosophila and Selection in Nature: From Laboratory Fitness Components to Field Assessments **2009**, 169-182		2
305	Effect of altitude on the genetic structure of an Alpine grass, Poa hiemata. *Annals of Botany*, **2009**, 103, 885-99	4.1	64
304	The effects of sediment quality on benthic macroinvertebrates in the River Murray, Australia. *Marine and Freshwater Research*, **2009**, 60, 70	2.2	20
303	Detecting genetic responses to environmental change. *Nature Reviews Genetics*, **2008**, 9, 421-32	30.1	372
302	Linking inbreeding effects in captive populations with fitness in the wild: release of replicated Drosophila melanogaster lines under different temperatures. *Conservation Biology*, **2008**, 22, 189-99	6	25
301	The effects of soil tillage on beneficial invertebrates within the vineyard. *Agricultural and Forest Entomology*, **2008**, 10, 233-243	1.9	72
300	Nucleotide diversity in the Hsp90 gene in natural populations of Drosophila melanogaster from Australia. *Insect Molecular Biology*, **2008**, 17, 685-97	3.4	9
299	Assaying the potential benefits of thiamethoxam and imidacloprid for phylloxera suppression and improvements to grapevine vigour. *Crop Protection*, **2008**, 27, 1229-1236	2.7	12
298	Rapid loss of genetic variation in an endangered possum. *Biology Letters*, **2008**, 4, 134-8	3.6	23

297	Revisiting the Impact of Inversions in Evolution: From Population Genetic Markers to Drivers of Adaptive Shifts and Speciation?. *Annual Review of Ecology, Evolution, and Systematics*, **2008**, 39, 21-42	13.5	414
296	Effect of remnant vegetation, pesticides, and farm management on abundance of the beneficial predator Notonomus gravis (Chaudoir) (Coleoptera: Carabidae). *Biological Control*, **2008**, 46, 83-93	3.8	31
295	Notonomus gravis (Chaudoir) (Coleoptera: Carabidae) predation of Deroceras reticulatum Müller (Gastropoda: Agriolimacidae), an example of fortuitous biological control. *Biological Control*, **2008**, 47, 328-334	3.8	7
294	Effects of sediment quality on macroinvertebrates in the Sunraysia region of the Murray-Darling Rivers, Australia. *Environmental Pollution*, **2008**, 156, 689-98	9.3	16
293	Limitations to reproductive output and genetic rescue in populations of the rare shrub Grevillea repens (Proteaceae). *Annals of Botany*, **2008**, 102, 1031-41	4.1	35
292	Developing and testing a diagnostic probe for grape phylloxera applicable to soil samples. *Journal of Economic Entomology*, **2008**, 101, 1934-43	2.2	16
291	The effects of local selection versus dispersal on insecticide resistance patterns: longitudinal evidence from diamondback moth (Plutella xylostella (Lepidoptera: Plutellidae)) in Australia evolving resistance to pyrethroids. *Bulletin of Entomological Research*, **2008**, 98, 145-57	1.7	33
290	Costs and benefits of cold acclimation in field-released Drosophila. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 216-21	11.5	184
289	Frequency-dependent selection maintains clonal diversity in an asexual organism. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 17872-7	11.5	27
288	A high incidence of parthenogenesis in agricultural pests. *Proceedings of the Royal Society B: Biological Sciences*, **2008**, 275, 2473-81	4.4	39
287	Population bottlenecks increase additive genetic variance but do not break a selection limit in rain forest Drosophila. *Genetics*, **2008**, 179, 2135-46	4	51
286	Strategies for control of the redlegged earth mite in Australia. *Australian Journal of Experimental Agriculture*, **2008**, 48, 1506		31
285	Effectiveness of spring spraying targeting diapause egg production for controlling redlegged earth mites and other pests in pasture. *Australian Journal of Experimental Agriculture*, **2008**, 48, 1118		13
284	The changing status of invertebrate pests and the future of pest management in the Australian grains industry. *Australian Journal of Experimental Agriculture*, **2008**, 48, 1481		41
283	Towards an integrated framework for assessing the vulnerability of species to climate change. *PLoS Biology*, **2008**, 6, 2621-6	9.7	692
282	High molecular weight petroleum hydrocarbons differentially affect freshwater benthic macroinvertebrate assemblages. *Environmental Toxicology and Chemistry*, **2008**, 27, 1077-83	3.8	9
281	Emerging pest mites of grains (Balaustium medicagoense and Bryobia sp.) show high levels of tolerance to currently registered pesticides. *Australian Journal of Experimental Agriculture*, **2008**, 48, 1126		16
280	Pests of germinating grain crops in southern Australia: an overview of their biology and management options. *Australian Journal of Experimental Agriculture*, **2008**, 48, 1560		30

279	DNA identification of urban Tanytarsini chironomids (Diptera:Chironomidae). *Journal of the North American Benthological Society*, **2007**, 26, 587-600		52
278	Consequences of heat hardening on a field fitness component in Drosophila depend on environmental temperature. *American Naturalist*, **2007**, 169, 175-83	3.7	137
277	Slug control in Australian canola: monitoring, molluscicidal baits and economic thresholds. *Pest Management Science*, **2007**, 63, 851-9	4.6	17
276	Hsp90 inhibition and the expression of phenotypic variability in the rainforest species Drosophila birchii. *Biological Journal of the Linnean Society*, **2007**, 92, 457-465	1.9	21
275	Robust clines and robust sampling: a reply to Kyriacou et al. *Journal of Evolutionary Biology*, **2007**, 20, 1652-4	2.3	4
274	Antagonistic selection between adult thorax and wing size in field released Drosophila melanogaster independent of thermal conditions. *Journal of Evolutionary Biology*, **2007**, 20, 2219-27	2.3	40
273	Towards genetic markers in animal populations as biomonitors for human-induced environmental change. *Ecology Letters*, **2007**, 10, 63-76	10	60
272	Effects of ground cover (straw and compost) on the abundance of natural enemies and soil macro invertebrates in vineyards. *Agricultural and Forest Entomology*, **2007**, 9, 173-179	1.9	75
271	Identification of aphid species (Hemiptera: Aphididae: Aphidinae) using a rapid polymerase chain reaction restriction fragment length polymorphism method based on the cytochrome oxidase subunit I gene. *Australian Journal of Entomology*, **2007**, 46, 305-312		24
270	The response of Chironomidae to sediment pollution and other environmental characteristics in urban wetlands. *Freshwater Biology*, **2007**, 52, 2444-2462	3.1	70
269	Lack of genetic structure among ecologically adapted populations of an Australian rainforest Drosophila species as indicated by microsatellite markers and mitochondrial DNA sequences. *Molecular Ecology*, **2007**, 16, 1687-700	5.7	22
268	Candidate genes and thermal phenotypes: identifying ecologically important genetic variation for thermotolerance in the Australian Drosophila melanogaster cline. *Molecular Ecology*, **2007**, 16, 2948-57	5.7	74
267	Local adaptation and cogradient selection in the alpine plant, Poa hiemata, along a narrow altitudinal gradient. *Evolution; International Journal of Organic Evolution*, **2007**, 61, 2925-41	3.8	189
266	Is there genetic structure in populations of Helicoverpa armigera from Australia?. *Entomologia Experimentalis Et Applicata*, **2007**, 122, 253-263	2.1	36
265	Global warming: fly populations are responding rapidly to climate change. *Current Biology*, **2007**, 17, R16-8	6.3	22
264	Fighting fly genes. *Trends in Genetics*, **2007**, 23, 51-4	8.5	16
263	Climatic selection on genes and traits after a 100 year-old invasion: a critical look at the temperate-tropical clines in Drosophila melanogaster from eastern Australia. *Genetica*, **2007**, 129, 133-47	1.5	206
262	From parasite to mutualist: rapid evolution of Wolbachia in natural populations of Drosophila. *PLoS Biology*, **2007**, 5, e114	9.7	312

261	Commercial Agrochemical Applications in Vineyards Do Not Influence Ant Communities. *Environmental Entomology*, **2007**, 36, 1374-1383	2.1	14
260	Ecologically Sustainable Chemical Recommendations for Agricultural Pest Control?. *Journal of Economic Entomology*, **2007**, 100, 1741-1750	2.2	20
259	Can artificially selected phenotypes influence a component of field fitness? Thermal selection and fly performance under thermal extremes. *Proceedings of the Royal Society B: Biological Sciences*, **2007**, 274, 771-8	4.4	56
258	Mapping regions within cosmopolitan inversion In(3R)Payne associated with natural variation in body size in Drosophila melanogaster. *Genetics*, **2007**, 177, 549-56	4	35
257	Beneficial organisms as bioindicators for environmental sustainability in the grape industry in Australia. *Australian Journal of Experimental Agriculture*, **2007**, 47, 404		19
256	High levels of variation despite genetic fragmentation in populations of the endangered mountain pygmy-possum, Burramys parvus, in alpine Australia. *Molecular Ecology*, **2007**, 16, 75-87	5.7	35
255	Ecologically sustainable chemical recommendations for agricultural pest control?. *Journal of Economic Entomology*, **2007**, 100, 1741-50	2.2	12
254	Commercial agrochemical applications in vineyards do not influence ant communities. *Environmental Entomology*, **2007**, 36, 1374-83	2.1	8
253	Using invertebrate bioindicators to assess agricultural sustainability in Australia: proposals and current practices. *Australian Journal of Experimental Agriculture*, **2007**, 47, 379		18
252	Complexity of the cold acclimation response in Drosophila melanogaster. *Journal of Insect Physiology*, **2006**, 52, 94-104	2.4	139
251	A new set of laboratory-selected Drosophila melanogaster lines for the analysis of desiccation resistance: response to selection, physiology and correlated responses. *Journal of Experimental Biology*, **2006**, 209, 1837-47	3	70
250	THE CONTRASTING GENETIC ARCHITECTURE OF WING SIZE, VIABILITY, AND DEVELOPMENT TIME IN A RAINFOREST SPECIES AND ITS MORE WIDELY DISTRIBUTED RELATIVE. *Evolution; International Journal of Organic Evolution*, **2006**, 60, 106	3.8	
249	Patterns of diversity and linkage disequilibrium within the cosmopolitan inversion In(3R)Payne in Drosophila melanogaster are indicative of coadaptation. *Genetics*, **2006**, 172, 1655-63	4	70
248	Very low additive genetic variance and evolutionary potential in multiple populations of two rainforest Drosophila species. *Evolution; International Journal of Organic Evolution*, **2006**, 60, 1104-8	3.8	82
247	Revisiting Heritable Variation and Limits to Species Distribution: Recent Developments. *Israel Journal of Ecology and Evolution*, **2006**, 52, 247-261	0.8	9
246	Limits to the Adaptive Potential of Small Populations. *Annual Review of Ecology, Evolution, and Systematics*, **2006**, 37, 433-458	13.5	565
245	Field validation of laboratory-derived IOBC toxicity ratings for natural enemies in commercial vineyards. *Biological Control*, **2006**, 39, 507-515	3.8	48
244	A microcosm test of adaptation and species specific responses to polluted sediments applicable to indigenous chironomids (Diptera). *Environmental Pollution*, **2006**, 139, 550-60	9.3	27

243	Shelterbelts in agricultural landscapes suppress invertebrate pests. *Australian Journal of Experimental Agriculture*, **2006**, 46, 1379		38
242	Changes in Grape Phylloxera Abundance in Ungrafted Vineyards. *Journal of Economic Entomology*, **2006**, 99, 1774-1783	2.2	18
241	An independent non-linear latitudinal cline for the sn-glycerol-3-phosphate (alpha- Gpdh) polymorphism of Drosophila melanogaster from eastern Australia. *Genetical Research*, **2006**, 87, 13-21	1.1	10
240	HSP90 AND THE QUANTITATIVE VARIATION OF WING SHAPE IN DROSOPHILA MELANOGASTER. *Evolution; International Journal of Organic Evolution*, **2006**, 60, 2529	3.8	37
239	THE CONTRASTING GENETIC ARCHITECTURE OF WING SIZE, VIABILITY, AND DEVELOPMENT TIME IN A RAINFOREST SPECIES AND ITS MORE WIDELY DISTRIBUTED RELATIVE. *Evolution; International Journal of Organic Evolution*, **2006**, 60, 106-114	3.8	14
238	VERY LOW ADDITIVE GENETIC VARIANCE AND EVOLUTIONARY POTENTIAL IN MULTIPLE POPULATIONS OF TWO RAINFOREST DROSOPHILA SPECIES. *Evolution; International Journal of Organic Evolution*, **2006**, 60, 1104-1108	3.8	73
237	HSP90 AND THE QUANTITATIVE VARIATION OF WING SHAPE IN DROSOPHILA MELANOGASTER. *Evolution; International Journal of Organic Evolution*, **2006**, 60, 2529-2538	3.8	80
236	In search of clinal variation in the period and clock timing genes in Australian Drosophila melanogaster populations. *Journal of Evolutionary Biology*, **2006**, 19, 551-7	2.3	27
235	Altitudinal patterns for latitudinally varying traits and polymorphic markers in Drosophila melanogaster from eastern Australia. *Journal of Evolutionary Biology*, **2006**, 19, 473-82	2.3	48
234	Absence of clinal variation in virgin retention capacity in Australian Drosophila melanogaster. *Evolutionary Ecology*, **2006**, 20, 407-413	1.8	3
233	The association between inversion In(3R)Payne and clinally varying traits in Drosophila melanogaster. *Genetica*, **2006**, 128, 373-84	1.5	37
232	Changes in grape phylloxera abundance in ungrafted vineyards. *Journal of Economic Entomology*, **2006**, 99, 1774-83	2.2	5
231	The contrasting genetic architecture of wing size, viability, and development time in a rainforest species and its more widely distributed relative. *Evolution; International Journal of Organic Evolution* , **2006**, 60, 106-14	3.8	6
230	Hsp90 and the quantitative variation of wing shape in Drosophila melanogaster. *Evolution; International Journal of Organic Evolution*, **2006**, 60, 2529-38	3.8	39
229	A REASSESSMENT OF GENETIC LIMITS TO EVOLUTIONARY CHANGE. *Ecology*, **2005**, 86, 1371-1384	4.6	444
228	Pesticide applications on Java potato fields are ineffective in controlling leafminers, and have antagonistic effects on natural enemies of leafminers. *International Journal of Pest Management*, **2005**, 51, 181-187	1.5	20
227	A rapid shift in a classic clinal pattern in Drosophila reflecting climate change. *Science*, **2005**, 308, 691-3	33.3	309
226	A field-based microcosm method to assess the effects of polluted urban stream sediments on aquatic macroinvertebrates. *Environmental Toxicology and Chemistry*, **2005**, 24, 170-80	3.8	55

225	Effects of long-chain hydrocarbon-polluted sediment on freshwater macroinvertebrates. *Environmental Toxicology and Chemistry*, **2005**, 24, 2500-8	3.8	28
224	Clinal variation and laboratory adaptation in the rainforest species Drosophila birchii for stress resistance, wing size, wing shape and development time. *Journal of Evolutionary Biology*, **2005**, 18, 213-22	2.3	92
223	Evidence for a robust sex-specific trade-off between cold resistance and starvation resistance in Drosophila melanogaster. *Journal of Evolutionary Biology*, **2005**, 18, 804-10	2.3	91
222	Wing shape versus asymmetry as an indicator of changing environmental conditions in insects. *Australian Journal of Entomology*, **2005**, 44, 233-243		53
221	The latitudinal cline in the In(3R)Payne inversion polymorphism has shifted in the last 20 years in Australian Drosophila melanogaster populations. *Molecular Ecology*, **2005**, 14, 851-8	5.7	90
220	Hardening capacity in the Drosophila melanogaster species group is constrained by basal thermotolerance. *Functional Ecology*, **2005**, 19, 853-858	5.6	63
219	Relative importance of plastic vs genetic factors in adaptive differentiation: geographical variation for stress resistance in Drosophila melanogaster from eastern Australia. *Functional Ecology*, **2005**, 19, 222-227	5.6	181
218	Eriophyoid mite damage in Vitis vinifera (grapevine) in Australia: Calepitrimerus vitis and Colomerus vitis (Acari: Eriophyidae) as the common cause of the widespread 'Restricted Spring Growth' syndrome. *Experimental and Applied Acarology*, **2005**, 35, 83-109	2.1	49
217	Mutation and Phenotypic Variation: Where is the Connection? Capacitators, Stressors, Phenotypic Variability, and Evolutionary Change **2005**, 159-189		2
216	A c-Rel subdomain responsible for enhanced DNA-binding affinity and selective gene activation. *Genes and Development*, **2005**, 19, 2138-51	12.6	92
215	The Utility of DNA Markers in Classical Taxonomy: Using Cytochrome Oxidase I Markers to Differentiate Australian Cladopelma (Diptera: Chironomidae) Midges. *Annals of the Entomological Society of America*, **2005**, 98, 587-594	2	32
214	Response to selection for rapid chill-coma recovery in Drosophila melanogaster: physiology and life-history traits. *Genetical Research*, **2005**, 85, 15-22	1.1	82
213	Effect of E(sev) and Su(Raf) Hsp83 mutants and trans-heterozygotes on bristle trait means and variation in Drosophila melanogaster. *Genetics*, **2005**, 171, 119-30	4	26
212	Developing an Ecotoxicological Testing Standard for Predatory Mites in Australia: Acute and Sublethal Effects of Fungicides on Euseius victoriensis and Galendromus occidentalis (Acarina: Phytoseiidae). *Journal of Economic Entomology*, **2004**, 97, 891-899	2.2	18
211	Effects of cold storage on field and laboratory performance of Trichogramma carverae (Hymenoptera: Trichogrammatidae) and the response of three Trichogramma spp. (T. carverae, T. nr. brassicae, and T. funiculatum) to cold. *Journal of Economic Entomology*, **2004**, 97, 213-21	2.2	42
210	Developing an ecotoxicological testing standard for predatory mites in Australia: acute and sublethal effects of fungicides on Euseius victoriensis and Galendromus occidentalis (Acarina: Phytoseiidae). *Journal of Economic Entomology*, **2004**, 97, 891-9	2.2	27
209	Toxicity of chemicals commonly used in Indonesian vegetable crops to Liriomyza huidobrensis populations and the Indonesian parasitoids Hemiptarsenus varicornis, Opius sp., and Gronotoma micromorpha, as well as the Australian parasitoids Hemiptarsenus varicornis and Diglyphus isaea. *Journal of Economic Entomology*, **2004**, 97, 1191-7	2.2	29
208	Effective trapping methods for assessing invertebrates in vineyards. *Australian Journal of Experimental Agriculture*, **2004**, 44, 947		25

207	Species status and population genetic structure of grapevine eriophyoid mites. *Entomologia Experimentalis Et Applicata*, **2004**, 111, 87-96	2.1	57
206	Fine-scale genetic structure of grape phylloxera from the roots and leaves of Vitis. *Heredity*, **2004**, 92, 118-27	3.6	19
205	Genetic correlations, tradeoffs and environmental variation. *Heredity*, **2004**, 93, 241-8	3.6	294
204	Dissecting chill coma recovery as a measure of cold resistance: evidence for a biphasic response in Drosophila melanogaster. *Journal of Insect Physiology*, **2004**, 50, 695-700	2.4	59
203	Plant host associations of Penthaleus species and Halotydeus destructor (Acari: Penthaleidae) and implications for integrated pest management. *Experimental and Applied Acarology*, **2004**, 33, 1-20	2.1	37
202	Biology, ecology and control of the Penthaleus species complex (Acari: Penthaleidae). *Experimental and Applied Acarology*, **2004**, 34, 211-237	2.1	3
201	Biology, ecology and control of the Penthaleus species complex (Acari: Penthaleidae). *Experimental and Applied Acarology*, **2004**, 34, 211-37	2.1	37
200	Molecular, morphological and behavioural data reveal the presence of a cryptic species in the widely studied Drosophila serrata species complex. *Journal of Evolutionary Biology*, **2004**, 17, 430-42	2.3	32
199	Effects of Cold Storage on Field and Laboratory Performance of Trichogramma carverae (Hymenoptera: Trichogrammatidae) and the Response of Three Trichogramma spp. (T. carverae, T. nr. brassicae, and T. funiculatum) to Cold. *Journal of Economic Entomology*, **2004**, 97, 213-221	2.2	40
198	Inversion frequencies in Drosophila serrata along an eastern Australian transect. *Genome*, **2004**, 47, 1144-53	2.4	16
197	Field dispersal and host location of Trichogramma brassicae is influenced by wing size but not wing shape. *Biological Control*, **2004**, 31, 1-10	3.8	18
196	Chromosomal inversion polymorphisms and adaptation. *Trends in Ecology and Evolution*, **2004**, 19, 482-8	10.9	171
195	Wolbachia effects in Drosophila melanogaster: in search of fitness benefits. *Journal of Invertebrate Pathology*, **2004**, 87, 45-50	2.6	64
194	Toxicity of Chemicals Commonly Used in Indonesian Vegetable Crops to Liriomyza huidobrensis Populations and the Indonesian Parasitoids Hemiptarsenus varicornis, Opius sp., and Gronotoma micromorpha, as well as the Australian parasitoids Hemiptarsenus varicornis and Diglyphus isaea. *Journal of Economic Entomology*, **2004**, 97, 1191-1197	2.2	11
193	Identifying chironomids (Diptera: Chironomidae) for biological monitoring with PCR-RFLP. *Bulletin of Entomological Research*, **2003**, 93, 483-90	1.7	40
192	Low potential for climatic stress adaptation in a rainforest Drosophila species. *Science*, **2003**, 301, 100-2	33.3	271
191	Quantitative trait symmetry independent of Hsp90 buffering: distinct modes of genetic canalization and developmental stability. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 13396-401	11.5	102
190	Evidence for host-associated clones of grape phylloxera Daktulosphaira vitifoliae (Hemiptera: Phylloxeridae) in Australia. *Bulletin of Entomological Research*, **2003**, 93, 193-201	1.7	24

189	Overwintering ofTrichogramma funiculatumCarver (Hymenoptera: Trichogrammatidae) Under Semi-Natural Conditions. *Environmental Entomology*, **2003**, 32, 290-298	2.1	31
188	Effects of methoxyfenozide, indoxacarb, and other insecticides on the beneficial egg parasitoid Trichogramma nr. brassicae (Hymenoptera: Trichogrammatidae) under laboratory and field conditions. *Journal of Economic Entomology*, **2003**, 96, 1083-90	2.2	63
187	Developmental Stability as a Potential Tool in the Early Detection of Salinity Stress in Wheat. *International Journal of Plant Sciences*, **2003**, 164, 325-331	2.6	7
186	Diapause and implications for control of Penthaleus species and Halotydeus destructor (Acari: Penthaleidae) in southeastern Australia. *Experimental and Applied Acarology*, **2003**, 31, 209-23	2.1	29
185	Thermal adaptation in Drosophila serrata under conditions linked to its southern border: unexpected patterns from laboratory selection suggest limited evolutionary potential. *Journal of Genetics*, **2003**, 82, 179-89	1.2	19
184	Isolation of a Drosophila melanogaster desiccation resistant mutant. *Journal of Insect Physiology*, **2003**, 49, 1013-20	2.4	7
183	Adaptation of Drosophila to temperature extremes: bringing together quantitative and molecular approaches. *Journal of Thermal Biology*, **2003**, 28, 175-216	2.9	763
182	Are wing size, wing shape and asymmetry related to field fitness of Trichogramma egg parasitoids?. *Oikos*, **2003**, 100, 563-573	4	46
181	Does mass rearing of field collected Trichogramma brassicae wasps influence acceptance of European corn borer eggs?. *Entomologia Experimentalis Et Applicata*, **2003**, 109, 197-203	2.1	22
180	Immunocontraception for population control: will resistance evolve?. *Immunology and Cell Biology*, **2003**, 81, 152-9	5	15
179	Overwintering in Drosophila melanogaster: outdoor field cage experiments on clinal and laboratory selected populations help to elucidate traits under selection. *Journal of Evolutionary Biology*, **2003**, 16, 614-23	2.3	66
178	Cross-generation effects due to cold exposure in Drosophila serrata. *Functional Ecology*, **2003**, 17, 664-672	5.6	51
177	Monitoring salt stress in grapevines: are measures of plant trait variability useful?. *Journal of Applied Ecology*, **2003**, 40, 928-937	5.8	19
176	DNA sequence variation and latitudinal associations in hsp23, hsp26 and hsp27 from natural populations of Drosophila melanogaster. *Molecular Ecology*, **2003**, 12, 2025-32	5.7	96
175	Identification and characterization of Trichogramma species from south-eastern Australia using the internal transcribed spacer 2 (ITS-2) region of the ribosomal gene complex. *Entomologia Experimentalis Et Applicata*, **2003**, 106, 235-240	2.1	26
174	Translational asymmetry as a sensitive indicator of cadmium stress in plants: a laboratory test with wild-type and mutant Arabidopsis thaliana. *New Phytologist*, **2003**, 159, 471-477	9.8	17
173	Thermal tolerance trade-offs associated with the right arm of chromosome 3 and marked by the hsr-omega gene in Drosophila melanogaster. *Heredity*, **2003**, 90, 195-202	3.6	81
172	Effects of Methoxyfenozide, Indoxacarb, and Other Insecticides on the Beneficial Egg Parasitoid Trichogramma nr. brassicae (Hymenoptera: Trichogrammatidae) Under Laboratory and Field Conditions. *Journal of Economic Entomology*, **2003**, 96, 1083-1090	2.2	45

171	The effects of host age, host nuclear background and temperature on phenotypic effects of the virulent Wolbachia strain popcorn in Drosophila melanogaster. *Genetics*, **2003**, 164, 1027-34	4	95
170	Opposing clines for high and low temperature resistance in Drosophila melanogaster. *Ecology Letters*, **2002**, 5, 614-618	10	358
169	Dissecting adaptive clinal variation: markers, inversions and size/stress associations in Drosophila melanogaster from a central field population. *Ecology Letters*, **2002**, 5, 756-763	10	93
168	Fluctuating asymmetry, fecundity and development time in Drosophila: is there an association under optimal and stress conditions?. *Journal of Evolutionary Biology*, **2002**, 15, 146-157	2.3	26
167	Shifting clinal patterns and microsatellite variation in Drosophila serrata populations: a comparison of populations near the southern border of the species range. *Journal of Evolutionary Biology*, **2002**, 15, 763-774	2.3	64
166	Clonal reproduction and population genetic structure of grape phylloxera, Daktulosphaira vitifoliae, in Australia. *Heredity*, **2002**, 88, 203-11	3.6	46
165	Response to natural and laboratory selection at the Drosophila hsp70 genes. *Evolution; International Journal of Organic Evolution*, **2002**, 56, 1796-801	3.8	89
164	Geographic variation for wing shape in Drosophila serrata. *Evolution; International Journal of Organic Evolution*, **2002**, 56, 1068-73	3.8	99
163	Geographic patterns of clonal diversity in the earth mite species Penthaleus major with particular emphasis on species margins. *Evolution; International Journal of Organic Evolution*, **2002**, 56, 1160-7	3.8	16
162	Laboratory fecundity as predictor of field success in Trichogramma carverae (Hymenoptera: Trichogrammatidae). *Journal of Economic Entomology*, **2002**, 95, 912-7	2.2	25
161	Individual level trade-offs and artifacts in the egg parasitoid Trichogramma carverae (Hymenoptera: Trichogrammatidae). *Annals of the Entomological Society of America*, **2002**, 95, 695-700	2	6
160	GEOGRAPHIC VARIATION FOR WING SHAPE IN DROSOPHILA SERRATA. *Evolution; International Journal of Organic Evolution*, **2002**, 56, 1068	3.8	9
159	GEOGRAPHIC PATTERNS OF CLONAL DIVERSITY IN THE EARTH MITE SPECIES PENTHALEUS MAJOR WITH PARTICULAR EMPHASIS ON SPECIES MARGINS. *Evolution; International Journal of Organic Evolution*, **2002**, 56, 1160	3.8	1
158	RESPONSE TO NATURAL AND LABORATORY SELECTION AT THE DROSOPHILA HSP70 GENES. *Evolution; International Journal of Organic Evolution*, **2002**, 56, 1796	3.8	5
157	Clinal variation in Drosophila serrata for stress resistance and body size. *Genetical Research*, **2002**, 79, 141-8	1.1	115
156	Male age, host effects and the weak expression or non-expression of cytoplasmic incompatibility in Drosophila strains infected by maternally transmitted Wolbachia. *Genetical Research*, **2002**, 80, 79-87	1.1	161
155	Wing Shape and Wing Size Changes as Indicators of Environmental Stress in Helicoverpa punctigera (Lepidoptera: Noctuidae) Moths: Comparing Shifts in Means, Variances, and Asymmetries. *Environmental Entomology*, **2002**, 31, 965-971	2.1	29
154	Laboratory Fecundity as Predictor of Field Success in Trichogramma carverae (Hymenoptera: Trichogrammatidae). *Journal of Economic Entomology*, **2002**, 95, 912-917	2.2	17

153	Wolbachia dynamics and host effects: what has (and has not) been demonstrated?. *Trends in Ecology and Evolution*, **2002**, 17, 257-262	10.9	126
152	The detrimental acclimation hypothesis. *Trends in Ecology and Evolution*, **2002**, 17, 407-408	10.9	29
151	Distribution of Drosophila serrata Malloch (Diptera: Drosophilidae) in Australia with particular reference to the southern border. *Australian Journal of Entomology*, **2001**, 40, 41-48		22
150	Trait variability and stress: canalization, developmental stability and the need for a broad approach. *Ecology Letters*, **2001**, 4, 97-101	10	47
149	Field and laboratory evidence for acclimation without costs in an egg parasitoid. *Functional Ecology*, **2001**, 15, 217-221	5.6	37
148	A field cage test of the effects of the endosymbiont Wolbachia on Drosophila melanogaster. *Heredity*, **2001**, 86, 731-7	3.6	66
147	The pest status and distribution of three cryptic blue oat mite species (Penthaleus spp.) and redlegged earth mite (Halotydeus destructor) in southeastern Australia. *Experimental and Applied Acarology*, **2001**, 25, 699-716	2.1	32
146	Levels of variation in stress resistance in drosophila among strains, local populations, and geographic regions: patterns for desiccation, starvation, cold resistance, and associated traits. *Evolution; International Journal of Organic Evolution*, **2001**, 55, 1621-30	3.8	159
145	Rapid loss of stress resistance in Drosophila melanogaster under adaptation to laboratory culture. *Evolution; International Journal of Organic Evolution*, **2001**, 55, 436-8	3.8	119
144	LEVELS OF VARIATION IN STRESS RESISTANCE IN DROSOPHILA AMONG STRAINS, LOCAL POPULATIONS, AND GEOGRAPHIC REGIONS: PATTERNS FOR DESICCATION, STARVATION, COLD RESISTANCE, AND ASSOCIATED TRAITS. *Evolution; International Journal of Organic Evolution*, **2001**, 55, 1621	3.8	22
143	Composite asymmetry as an indicator of quality in the beneficial wasp Trichogramma nr. brassicae (Hymenoptera: Trichogrammatidae). *Journal of Economic Entomology*, **2001**, 94, 826-30	2.2	10
142	RAPID LOSS OF STRESS RESISTANCE IN DROSOPHILA MELANOGASTER UNDER ADAPTATION TO LABORATORY CULTURE. *Evolution; International Journal of Organic Evolution*, **2001**, 55, 436	3.8	7
141	Postponed reproduction as an adaptation to winter conditions in Drosophila melanogaster: evidence for clinal variation under semi-natural conditions. *Proceedings of the Royal Society B: Biological Sciences*, **2001**, 268, 2163-8	4.4	94
140	Nonclinality of molecular variation implicates selection in maintaining a morphological cline of Drosophila melanogaster. *Genetics*, **2001**, 158, 319-23	4	89
139	Effects of sulfur on Trichogramma egg parasitoids in vineyards: measuring toxic effects and establishing release windows. *Australian Journal of Experimental Agriculture*, **2000**, 40, 1165		35
138	Stress Resistance and Environmental Dependency of Inbreeding Depression in Drosophila melanogaster. *Conservation Biology*, **2000**, 14, 1187-1192	6	71
137	Sensitivity of pupae of lightbrown apple moth, Epiphyas postvittana (Walker) (Lepidoptera: Tortricidae), to combinations of abiotic stresses. *Australian Journal of Entomology*, **2000**, 39, 78-82		2
136	Acclimation for heat resistance in Trichogramma nr. brassicae: can it occur without costs?. *Functional Ecology*, **2000**, 14, 55-60	5.6	43

135	Resistance to temperature extremes between and within life cycle stages in Drosophila serrata, D. birchii and their hybrids: intraspecific and interspecific comparisons. *Biological Journal of the Linnean Society*, **2000**, 71, 403-416	1.9	18
134	Additional tests on the effects of pesticides on cryptic species of blue oat mite (Penthaleus spp.) and the redlegged earth mite (Halotydeus destructor). *Australian Journal of Experimental Agriculture*, **2000**, 40, 671		25
133	Environmental Stress as an Evolutionary Force. *BioScience*, **2000**, 50, 217	5.7	223
132	Dispersal patterns of pest earth mites (Acari: Penthaleidae) in pastures and crops. *Journal of Economic Entomology*, **2000**, 93, 1415-23	2.2	24
131	Competitive interactions between two pest species of earth mites, Halotydeus destructor and Penthaleus major (Acarina: Penthaleidae). *Journal of Economic Entomology*, **2000**, 93, 1183-91	2.2	21
130	Maternal and grandmaternal age influence offspring fitness in Drosophila. *Proceedings of the Royal Society B: Biological Sciences*, **2000**, 267, 2105-10	4.4	138
129	Reply from L.G. Harshman and A.A. Hoffmann. *Trends in Ecology and Evolution*, **2000**, 15, 207	10.9	14
128	Laboratory selection experiments using Drosophila: what do they really tell us?. *Trends in Ecology and Evolution*, **2000**, 15, 32-36	10.9	199
127	A Comment on In-Group/Out-Group Comparisons for Fluctuating Asymmetry Based on Trait Values from the Left or Right Sides of an Individual. *American Naturalist*, **1999**, 153, 140-142	3.7	3
126	Does interspecific hybridization influence evolutionary rates? An experimental study of laboratory adaptation in hybrids between Drosophila serrata and Drosophila birchii. *Proceedings of the Royal Society B: Biological Sciences*, **1999**, 266, 2195-200	4.4	11
125	Selection for starvation resistance in Drosophila melanogaster : physiological correlates, enzyme activities and multiple stress responses. *Journal of Evolutionary Biology*, **1999**, 12, 370-379	2.3	124
124	Desiccation and starvation resistance in Drosophila: patterns of variation at the species, population and intrapopulation levels. *Heredity*, **1999**, 83 (Pt 6), 637-43	3.6	205
123	Microbe-induced cytoplasmic incompatibility as a mechanism for introducing transgenes into arthropod populations. *Insect Molecular Biology*, **1999**, 8, 243-55	3.4	138
122	The biology of Penthaleus species in southeastern Australia. *Entomologia Experimentalis Et Applicata*, **1999**, 92, 179-189	2.1	25
121	Is the heritability for courtship and mating speed in Drosophila (fruit fly) low?. *Heredity*, **1999**, 82 (Pt 2), 158-62	3.6	20
120	Heritable variation and evolution under favourable and unfavourable conditions. *Trends in Ecology and Evolution*, **1999**, 14, 96-101	10.9	551
119	Limits to the Southern Border of Drosophila serrata: Cold Resistance, Heritable Variation, and Trade-Offs. *Evolution; International Journal of Organic Evolution*, **1999**, 53, 1823	3.8	42
118	The Association between Fluctuating Asymmetry, Trait Variability, Trait Heritability, and Stress: A Multiply Replicated Experiment on Combined Stresses in Drosophila melanogaster. *Evolution; International Journal of Organic Evolution*, **1999**, 53, 493	3.8	45

117	THE ASSOCIATION BETWEEN FLUCTUATING ASYMMETRY, TRAIT VARIABILITY, TRAIT HERITABILITY, AND STRESS: A MULTIPLY REPLICATED EXPERIMENT ON COMBINED STRESSES IN DROSOPHILA MELANOGASTER. *Evolution; International Journal of Organic Evolution*, **1999**, 53, 493-505	3.8	72
116	LIMITS TO THE SOUTHERN BORDER OF DROSOPHILA SERRATA: COLD RESISTANCE, HERITABLE VARIATION, AND TRADE-OFFS. *Evolution; International Journal of Organic Evolution*, **1999**, 53, 1823-1834	3.8	32
115	Tolerance of cryptic species of blue oat mites (Penthaleus spp.) and the redlegged earth mite (Halotydeus destructor) to pesticides. *Australian Journal of Experimental Agriculture*, **1999**, 39, 621		39
114	Desiccation resistance in interspecific Drosophila crosses. Genetic interactions and trait correlations. *Genetics*, **1999**, 151, 1493-502	4	35
113	Separating the Effects of Experience, Size, Egg Load, and Genotype on Host Response in Trichogramma (Hymenoptera: Trichogrammatidae). *Journal of Insect Behavior*, **1998**, 11, 129-148	1.1	20
112	Correlations between measures of heat resistance and acclimation in two species ofDrosophilaand their hybrids. *Biological Journal of the Linnean Society*, **1998**, 64, 449-462	1.9	5
111	Correlations between measures of heat resistance and acclimation in two species of Drosophila and their hybrids. *Biological Journal of the Linnean Society*, **1998**, 64, 449-462	1.9	29
110	Female encounter rates and fighting costs of males are associated with lek size in Drosophila mycetophaga. *Behavioral Ecology and Sociobiology*, **1998**, 42, 163-169	2.5	19
109	Environmental effects on cytoplasmic incompatibility and bacterial load in Wolbachia-infected Drosophila simulans. *Entomologia Experimentalis Et Applicata*, **1998**, 86, 13-24	2.1	139
108	Intense Selection of Mite Clones in a Heterogeneous Environment. *Evolution; International Journal of Organic Evolution*, **1998**, 52, 1325	3.8	28
107	Heritable Variation for Fecundity in Field-Collected Drosophila melanogaster and Their Offspring Reared Under Different Environmental Temperatures. *Evolution; International Journal of Organic Evolution*, **1998**, 52, 134	3.8	12
106	Changes in the Heritability of Five Morphological Traits Under Combined Environmental Stresses in Drosophila melanogaster. *Evolution; International Journal of Organic Evolution*, **1998**, 52, 1207	3.8	26
105	Plant cues influence searching behaviour and parasitism in the egg parasitoid Trichogramma nr. brassicae. *Ecological Entomology*, **1998**, 23, 355-362	2.1	18
104	Estimating the Heritability of Fluctuating Asymmetry in Field Drosophila. *Evolution; International Journal of Organic Evolution*, **1998**, 52, 816	3.8	17
103	CHANGES IN THE HERITABILITY OF FIVE MORPHOLOGICAL TRAITS UNDER COMBINED ENVIRONMENTAL STRESSES IN DROSOPHILA MELANOGASTER. *Evolution; International Journal of Organic Evolution*, **1998**, 52, 1207-1212	3.8	21
102	INTENSE SELECTION OF MITE CLONES IN A HETEROGENEOUS ENVIRONMENT. *Evolution; International Journal of Organic Evolution*, **1998**, 52, 1325-1333	3.8	31
101	ESTIMATING THE HERITABILITY OF FLUCTUATING ASYMMETRY IN FIELD DROSOPHILA. *Evolution; International Journal of Organic Evolution*, **1998**, 52, 816-824	3.8	25
100	HERITABLE VARIATION FOR FECUNDITY IN FIELD-COLLECTED DROSOPHILA MELANOGASTER AND THEIR OFFSPRING REARED UNDER DIFFERENT ENVIRONMENTAL TEMPERATURES. *Evolution; International Journal of Organic Evolution*, **1998**, 52, 134-143	3.8	24

99	Persistence of experience effects in the parasitoid Trichogramma nr. brassicae. *Ecological Entomology*, **1998**, 23, 110-117	2.1	33
98	Effects of stress combinations on the expression of additive genetic variation for fecundity in Drosophila melanogaster. *Genetical Research*, **1998**, 72, 13-8	1.1	38
97	Both allelic variation and expression of nuclear and cytoplasmic transcripts of Hsr-omega are closely associated with thermal phenotype in Drosophila. *Proceedings of the National Academy of Sciences of the United States of America*, **1998**, 95, 2423-8	11.5	44
96	Population dynamics of the Wolbachia infection causing cytoplasmic incompatibility in Drosophila melanogaster. *Genetics*, **1998**, 148, 221-31	4	185
95	Developing a Commercially Viable System for Biological Control of Light Brown Apple Moth (Lepidoptera: Tortricidae) in Grapes Using Endemic Trichogramma (Hymenoptera: Trichogrammatidae). *Journal of Economic Entomology*, **1997**, 90, 370-382	2.2	41
94	Characterizing Trichogramma (Hymenoptera: Trichogrammatidae) Species for Biocontrol of Light Brown Apple Moth (Lepidoptera: Tortricidae) in Grapevines in Australia. *Annals of the Entomological Society of America*, **1997**, 90, 128-137	2	29
93	Behavior of Wolbachia endosymbionts from Drosophila simulans in Drosophila serrata, a novel host. *American Naturalist*, **1997**, 149, 975-88	3.7	63
92	Consistent heritability changes under poor growth conditions. *Trends in Ecology and Evolution*, **1997** , 12, 460-1	10.9	26
91	Comparing Different Measures of Heat Resistance in Selected Lines of Drosophila melanogaster. *Journal of Insect Physiology*, **1997**, 43, 393-405	2.4	104
90	The response of the major crop and pasture pest, the red-legged earth mite (Halotydeus destructor) to pesticides: dose-response curves and evidence for tolerance. *Experimental and Applied Acarology*, **1997**, 21, 151-162	2.1	29
89	Costs and benefits of acclimation to elevated temperature in Trichogramma carverae. *Entomologia Experimentalis Et Applicata*, **1997**, 85, 211-219	2.1	64
88	Environmental stress and the expression of genetic variation. *Exs*, **1997**, 83, 79-96		11
87	Acclimation, Cross-Generation Effects, and the Response to Selection for Increased Cold Resistance in Drosophila. *Evolution; International Journal of Organic Evolution*, **1996**, 50, 1182	3.8	40
86	Cytoplasmic incompatibility in Drosophila simulans: evolving complexity. *Trends in Ecology and Evolution*, **1996**, 11, 145-6	10.9	41
85	ACCLIMATION, CROSS-GENERATION EFFECTS, AND THE RESPONSE TO SELECTION FOR INCREASED COLD RESISTANCE IN DROSOPHILA. *Evolution; International Journal of Organic Evolution*, **1996**, 50, 1182-1192	3.8	50
84	Inbreeding and incompatibility in Trichogramma nr. brassicae: evidence and implications for quality control. *Entomologia Experimentalis Et Applicata*, **1996**, 78, 283-290	2.1	25
83	Naturally-occurring Wolbachia infection in Drosophila simulans that does not cause cytoplasmic incompatibility. *Heredity*, **1996**, 76 (Pt 1), 1-8	3.6	196
82	Evidence for an Association between Nonadditive Genetic Variation and Extreme Expression of a Trait. *American Naturalist*, **1996**, 148, 576-587	3.7	12

81	Response of two heat shock genes to selection for knockdown heat resistance in Drosophila melanogaster. *Genetics*, **1996**, 143, 1615-27	4	114
80	Genetic structure of Halotydeus destructor and Penthaleus major populations in Victoria (Acari: Penthaleidae). *Experimental and Applied Acarology*, **1995**, 19, 633-646	2.1	43
79	Cross-Generation Effects for Cold Resistance in Tropical Populations of Drosophila-Melanogaster and Drosophila-Simulans. *Australian Journal of Zoology*, **1995**, 43, 51	0.5	31
78	Distribution and spacing of Drosophila mycetophaga flies on bracket fungi used as mating arenas. *Ecological Entomology*, **1995**, 20, 203-207	2.1	4
77	Laboratory Adaptation and Inbreeding in Helicoverpa-Punctigera (Lepidoptera, Noctuidae). *Australian Journal of Zoology*, **1995**, 43, 83	0.5	9
76	Effects of pre-adult and adult experience on host acceptance in choice and non-choice tests in two strains of Trichogramma. *Entomologia Experimentalis Et Applicata*, **1995**, 76, 49-58	2.1	29
75	The effects of acclimation and rearing conditions on the response of tropical and temperate populations ofDrosophila melanogaster andD. simulans to a temperature gradient (Diptera: Drosophilidae). *Journal of Insect Behavior*, **1994**, 7, 279-288	1.1	21
74	Species borders: ecological and evolutionary perspectives. *Trends in Ecology and Evolution*, **1994**, 9, 223-7	10.9	413
73	Resistance to Pyrethroids in Helicoverpa armigera (Lepidoptera: Noctuidae) from Corn: Adult Resistance, Larval Resistance, and Fitness Effects. *Journal of Economic Entomology*, **1994**, 87, 1165-1171	2.2	24
72	THE GENETICS OF CENTRAL AND MARGINAL POPULATIONS OF DROSOPHILA SERRATA. I. GENETIC VARIATION FOR STRESS RESISTANCE AND SPECIES BORDERS. *Evolution; International Journal of Organic Evolution*, **1993**, 47, 1255-1270	3.8	70
71	Geographical variation in the acclimation responses of Drosophila to temperature extremes. *American Naturalist*, **1993**, 142 Suppl 1, S93-113	3.7	131
70	Direct and correlated responses to selection for desiccation resistance: a comparison of Drosophila melanogaster and D. simulans. *Journal of Evolutionary Biology*, **1993**, 6, 643-657	2.3	94
69	Selection for adult desiccation resistance in Drosophila melanogaster: fitness components, larval resistance and stress correlations. *Biological Journal of the Linnean Society*, **1993**, 48, 43-54	1.9	75
68	Heritable variation in the attraction of Drosophila melanogaster to fruit in the field. *Biological Journal of the Linnean Society*, **1992**, 47, 147-159	1.9	9
67	HERITABLE VARIATION IN RESOURCE UTILIZATION AND RESPONSE IN A WINERY POPULATION OF DROSOPHILA MELANOGASTER. *Evolution; International Journal of Organic Evolution*, **1991**, 45, 1000-1015	3.8	17
66	Heritable Variation for Territorial Success in Field-Collected Drosophila melanogaster. *American Naturalist*, **1991**, 138, 668-679	3.7	29
65	Rapid spread of an inherited incompatibility factor in California Drosophila. *Nature*, **1991**, 353, 440-2	50.4	519
64	Heritable Variation in Resource Utilization and Response in a Winery Population of Drosophila melanogaster. *Evolution; International Journal of Organic Evolution*, **1991**, 45, 1000	3.8	4

63	Acclimation for desiccation resistance in Drosophila: Species and population comparisons. *Journal of Insect Physiology*, **1991**, 37, 757-762	2.4	51
62	MITOCHONDRIAL DNA POLYMORPHISM AND CYTOPLASMIC INCOMPATIBILITY IN NATURAL POPULATIONS OF DROSOPHILA SIMULANS. *Evolution; International Journal of Organic Evolution*, **1990**, 44, 1383-1386	3.8	35
61	The influence of age and experience with conspecifics on territorial behavior inDrosophila melanogaster. *Journal of Insect Behavior*, **1990**, 3, 1-12	1.1	64
60	Mitochondrial DNA Polymorphism and Cytoplasmic Incompatibility in Natural Populations of Drosophila simulans. *Evolution; International Journal of Organic Evolution*, **1990**, 44, 1383	3.8	20
59	Territoriality in Drosophila melanogaster as a conditional strategy. *Animal Behaviour*, **1990**, 40, 526-537	2.8	52
58	Acclimation for desiccation resistance in Drosophila melanogaster and the association between acclimation responses and genetic variation. *Journal of Insect Physiology*, **1990**, 36, 885-891	2.4	83
57	Heritable Variation in Resource Use in Drosophila in the Field **1990**, 177-193		4
56	A Test of the Role of Epistasis in Divergence Under Uniform Selection. *Evolution; International Journal of Organic Evolution*, **1989**, 43, 766	3.8	7
55	Geographic variation in the territorial success of Drosophila melanogaster males. *Behavior Genetics*, **1989**, 19, 241-55	3.2	19
54	An integrated approach to environmental stress tolerance and life-history variation: desiccation tolerance in Drosophila. *Biological Journal of the Linnean Society*, **1989**, 37, 117-136	1.9	161
53	Wolbachia-like organisms and cytoplasmic incompatibility in Drosophila simulans. *Journal of Invertebrate Pathology*, **1989**, 54, 344-352	2.6	89
52	Selection for territoriality in Drosophila melanogaster: correlated responses in mating success and other fitness components. *Animal Behaviour*, **1989**, 38, 23-34	2.8	41
51	A TEST OF THE ROLE OF EPISTASIS IN DIVERGENCE UNDER UNIFORM SELECTION. *Evolution; International Journal of Organic Evolution*, **1989**, 43, 766-774	3.8	18
50	Uniform Selection as a Diversifying Force in Evolution: Evidence from Drosophila. *American Naturalist*, **1989**, 134, 613-637	3.7	75
49	Partial cytoplasmic incompatibility between two Australian populations of Drosophila melanogaster. *Entomologia Experimentalis Et Applicata*, **1988**, 48, 61-67	2.1	91
48	Effects of starvation and experience on the response of Drosophila to alternative resources. *Oecologia*, **1988**, 77, 497-505	2.9	12
47	Early adult experience in Drosophila melanogaster. *Journal of Insect Physiology*, **1988**, 34, 197-204	2.4	32
46	Heritable variation for territorial success in two Drosophila melanogaster populations. *Animal Behaviour*, **1988**, 36, 1180-1189	2.8	51

45	Environmental Effects on Remating in Drosophila melanogaster. *Evolution; International Journal of Organic Evolution*, **1988**, 42, 312	3.8	23
44	ENVIRONMENTAL EFFECTS ON REMATING IN DROSOPHILA MELANOGASTER. *Evolution; International Journal of Organic Evolution*, **1988**, 42, 312-321	3.8	40
43	Territorial encounters between Drosophila males of different sizes. *Animal Behaviour*, **1987**, 35, 1899-1901	2.8	48
42	A laboratory study of male territoriality in the sibling species Drosophila melanogaster and D. simulans. *Animal Behaviour*, **1987**, 35, 807-818	2.8	118
41	Male size and mating success in Drosophila melanogaster and D. pseudoobscura under field conditions. *Animal Behaviour*, **1987**, 35, 468-476	2.8	263
40	Residual influences on fecundity in drosophilid species. *Experientia*, **1987**, 43, 213-5		1
39	Olfactory responses of Drosophila melanogaster selected for knockdown resistance to ethanol. *Behavior Genetics*, **1987**, 17, 307-12	3.2	6
38	Genetic divergence under uniform selection. III. Selection for knockdown resistance to ethanol in Drosophila pseudoobscura populations and their replicate lines. *Heredity*, **1987**, 58 (Pt 3), 425-33	3.6	40
37	Additional data on Trypanosoma cruzi isozymic strains encountered in Bolivian domestic transmission cycles. *Transactions of the Royal Society of Tropical Medicine and Hygiene*, **1986**, 80, 442-7	2	14
36	Inter- and intraspecific variation in the response of Drosophila melanogaster and D. simulans to larval cues. *Behavior Genetics*, **1986**, 16, 295-306	3.2	5
35	Unidirectional Incompatibility between Populations of Drosophila simulans. *Evolution; International Journal of Organic Evolution*, **1986**, 40, 692	3.8	124
34	UNIDIRECTIONAL INCOMPATIBILITY BETWEEN POPULATIONS OF DROSOPHILA SIMULANS. *Evolution; International Journal of Organic Evolution*, **1986**, 40, 692-701	3.8	304
33	Genetic divergence under uniform selection. II. Different responses to selection for knockdown resistance to ethanol among Drosophila melanogaster populations and their replicate lines. *Genetics*, **1986**, 114, 145-64	4	85
32	Effects of Experience on Oviposition and Attraction in Drosophila: Comparing Apples and Oranges. *American Naturalist*, **1985**, 126, 41-51	3.7	60
31	Distribution of Drosophila melanogaster on Alternative Resources: Effects of Experience and Starvation. *American Naturalist*, **1985**, 126, 662-679	3.7	43
30	Numerical Changes and Resource Utilization in Orchard Populations of Drosophila.. *Australian Journal of Zoology*, **1985**, 33, 875	0.5	17
29	Habitat marking: Parallel genetic divergence in two Drosophila species. *Heredity*, **1985**, 54, 203-207	3.6	3
28	Male Effects on Fecundity in Drosophila melanogaster. *Evolution; International Journal of Organic Evolution*, **1985**, 39, 638	3.8	8

27	Interspecific Variation in the Response of Drosophila to Chemicals and Fruit Odours in a Wind Tunnel.. *Australian Journal of Zoology*, **1985**, 33, 451	0.5	20
26	The Effect of Resource Subdivision on Genetic Variation in Drosophila. *American Naturalist*, **1985**, 125, 421-430	3.7	20
25	Habitat selection: Olfactory response of Drosophila melanogaster depends on resources. *Heredity*, **1984**, 53, 139-143	3.6	36
24	Olfactory response and resource utilization in Drosophila: interspecific comparisons. *Biological Journal of the Linnean Society*, **1984**, 22, 43-53	1.9	36
23	Habitat marking: males attracted to residual odors of twoDrosophila species. *Experientia*, **1984**, 40, 763-765		12
22	Incursion pathways of the Asian tiger mosquito (Aedes albopictus) into Australia contrast sharply with those of the yellow fever mosquito (Aedes aegypti)		1
21	Infertility and fecundity loss of Wolbachia-infected Aedes aegypti hatched from quiescent eggs is expected to alter invasion dynamics		1
20	Climate warming threatens critically endangered wingless stonefly Riekoperla darlingtoni (Illies, 1968) (Plecoptera: Gripopterygidae). *Journal of Insect Conservation*,1	2.1	0
19	Differential toxicological effects of natural and synthetic sources and enantiomeric forms of limonene on mosquito larvae. *Air Quality, Atmosphere and Health*,1	5.6	
18	The dangers of irreversibility in an age of increased uncertainty: revisiting plasticity in invertebrates. *Oikos*,	4	4
17	Fitness effects of competition within and between species change across species ranges, and reveal limited local adaptation in rainforest Drosophila		2
16	Measuring the host-seeking ability of Aedes aegypti destined for field release		1
15	Heterogeneous genetic invasions of three insecticide resistance mutations in Indo-Pacific populations of Aedes aegypti (L.)		1
14	Unbiased population heterozygosity estimates from genome-wide sequence data		1
13	Desiccation and starvation resistance in Drosophila: patterns of variation at the species, population and intrapopulation levels		15
12	A field cage test of the effects of the endosymbiont Wolbachia on Drosophila melanogaster		20
11	The queenslandensis and the type form of the dengue fever mosquito (Aedes aegypti L.) are genomically indistinguishable		2
10	Wolbachia infections in Aedes aegypti differ markedly in their response to cyclical heat stress		3

9	Fine-scale landscape genomics helps explain the slow spread of Wolbachia through the Aedes aegypti population in Cairns, Australia	4
8	Population genomics of two invasive mosquitoes (Aedes aegypti and Aedes albopictus) from the Indo-Pacific	2
7	Temperatures that sterilise males better predict global species distributions than lethal temperatures	1
6	A comprehensive assessment of inbreeding and laboratory adaptation in Aedes aegypti mosquitoes	2
5	A genomic approach to inferring kinship reveals limited intergenerational dispersal in the yellow fever mosquito	2
4	Extensive genetic differentiation between homomorphic sex chromosomes in the mosquito vector, Aedes aegypti	2
3	Is what you see what you get? The relationship between field observed and actual aphid parasitism rates in canola crops	1
2	Population bottlenecks constrain microbiome diversity and host genetic variation impeding fitness	1
1	Predicted responses to selection across the climatic range of a rainforest Drosophila without local adaptation: environmental variation limits trait divergence along ecological gradients	1