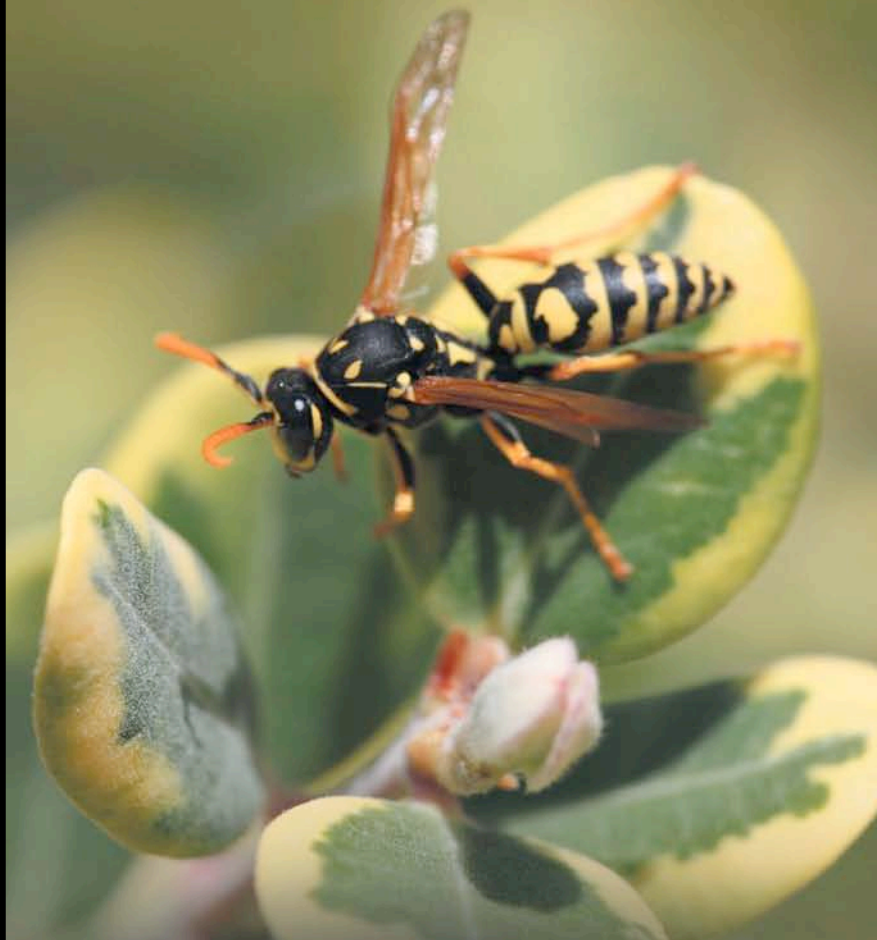


2007 - 2008 Annual Report

Australian Centre for Evolutionary Biology and Biodiversity



ACEBB is a nationally recognised centre of expertise in systematics, evolutionary biology and biodiversity science.



www.adelaide.edu.au/acebb

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Director's Report

The Australian Centre for Evolutionary Biology & Biodiversity (ACEBB) is a University-designated research centre that brings together expertise from three key organisations: The University of Adelaide, the South Australian Museum and the Department for Environment and Heritage's (DEH) Plant Biodiversity Centre, housing the State Herbarium of South Australia and Bioknowledge groups. ACEBB started operating in October 2000 and, with regard to outputs and outcomes, it has expanded every year since then.

The **Mission** of the ACEBB is to be a leading national and international centre for research and training in evolutionary biology and biodiversity science, with an emphasis on fauna and flora of Australia. It aims to:

- 1) Provide a focus for, and a recognition of, the high-calibre research already being undertaken by researchers in Adelaide;
- 2) Provide more secure funding and first-class infrastructure and integrated networking/coordination through collaboration among its members and with colleagues externally;
- 3) Attract postgraduates of excellence;
- 4) Be a focus for national and international visitors, and
- 5) Foster communication and ideas among members through seminars, discussion groups, workshops and conferences.

This Report covers the activities of the Centre during 2007 and 2008, a period which has seen the establishment of a number of new collaborations and activities begun in 2006. It has also been my pleasure during this period to take over the directorship of ACEBB from Prof Andy Austin, who has done a tremendous job in building up the centre from its inception in 2000. In addition this period covers an important expansion of ACEBB capabilities into new biodiversity science areas with the appointment of Prof Barry Brook and Associate Prof Corey Bradshaw within the School of Earth and Environmental Science. The activities of Prof Brook's and Associate Prof Bradshaw's Global Ecology Lab bring a range of new expertise to ACEBB in the areas of biodiversity and ecosystem analysis and modelling, particularly in the face of global change drivers such as invasive species and climate change. Prof Brook is also a new representative on ACEBB's management committee.

New appointment at ACEBB's partner institutes have also brought new capacity and direction to the centre. The appointment of Dr Mark Stevens at the South Australian Museum builds on ACEBB's strength in entomological systematics, but brings new skills in DNA barcoding and Antarctic biodiversity. The appoint of Drs Fred Gurgel (joint with University of Adelaide and SARDI), Jürgen Kellerman and Hugh Cross at the State Herbarium of South Australia, build ACEBB's expertise in floral systematics but also add capability in marine macroalgae (seaweeds), DNA barcoding and ancient DNA analysis.

This report summarises the work and activities undertaken by members (both core staff of the University of Adelaide, joint appointments and affiliated staff from SAM and SHSA), postdoctoral researchers (25 postdoctoral staff and fellows) and students (58 PhD students during 2008) in the Centre, and provides details on research projects and grants (28 new grants in 2008, total value ~\$5M), publications (total of 138 peer-reviewed publications in 2007 and 133 in 2008, and including papers in internationally leading journals such *Science*, *Nature*, *TREE*, *PNAS*, *PLoS Biology*, *TIPS*, *Biology Letters* and *Proc. Roy Soc.*) and national and international collaborations.

Major new funding and project directions during 2007 and 2008 include:

An ARC Discovery project to provide insights in the macroevolution of lizards (Lee and Hutchinson \$914K) and limb loss in lizards (\$260K)

An ARC Discovery project (Brook \$740K) to reconstruct past population dynamics to understand human and climate impacts in prehistory and apply search theory to eradicating invasive species (\$245K)

An ARC Discovery project (Murphy and Austin \$358K) to study the evolution of the unique mound springs fauna of the Great Artesian Basin.

An ARC Discovery (Hill \$292K) to ascertain the role of atmospheric carbon dioxide in fostering hyperdiversity in Australian conifer palaeofloras

An ARC Linkage (Lee \$293K) to examine the Cambrian explosion of Australian arthropods

An ARC Linkage (Austin and Jennings \$273K) to study the systematics and coevolution of insect herbivores of casarinas

A number of ABRS projects were funded to examine the systematics of Metazoan parasites (Hutson and Whittington \$178K), Australian ensign wasps (Jennings \$176K), Australian geckos (Hutchinson and Donnellan \$99K), mound spring amphipods (Cooper and Murphy \$180K) and Australian scelionid wasps (Austin \$13K).

Major funding was also received by Profs Lowe and Brook through the National Climate Change Adaptation Research Facility to participate in the Terrestrial Biodiversity node (total node funding \$1.6M).

On behalf of the members of the Centre, I would like to thank the following people for their help with the successful operation of ACEBB: Professor Bob Hill (Executive Dean, Faculty of Sciences); Dr Sue Carthew (Head, School of Earth & Environmental Sciences); Advisory Board members; Dr Steve Morton (Group Executive, CSIRO Environment & Natural Resources), Dr Ian Gould (South Australian environmental visionary and mining sector representative), Ms Susanne Miller (Director, South Australian Museum), and Mr Alan Holmes (CEO, Department for Environment and Heritage) and; Ms Maria Lekis, Annie Richard and Ramona Dalton for administrative support.



Professor Andrew Lowe
ACEBB Director

Membership

Management Committee

Professor Andrew Lowe. ACEBB Director. Joint position as Professor of Plant Conservation Biology, School of Earth & Environmental Sciences and Head of Science, State Herbarium and Bioknowledge, South Australian Department for Environment & Heritage

Professor Andrew Austin. ACEBB deputy director. School of Earth & Environmental Sciences

Professor Barry Brook. Sir Hubert Wilkins Chair of Climate Change, School of Earth & Environmental Sciences

Professor Stephen Donnellan. South Australian Museum, and Affiliate Professor in Schools of Earth & Environmental Sciences and Molecular & Biomedical Sciences

Academic Staff and Affiliates

Dr Jeremy Austin. ACEBB affiliate. Deputy Director of ACAD, School of Earth & Environmental Sciences

Dr Bill Barker. State Herbarium of South Australia, Department of Environment & Heritage

Associate Professor Corey Bradshaw. ACEBB affiliate. Joint position as director of the Marine Biology Program and with the South Australian Research and Development Institute

Associate Professor William Breed. Anatomical Sciences, Faculty of Health Sciences

Dr John Conran. School of Earth & Environmental Sciences

Dr Steven Cooper. South Australian Museum, and Affiliate Senior Lecturer in School of Earth & Environmental Sciences and School of Molecular & Biomedical Science

Dr Hugh Cross. State Herbarium of South Australia, Department of Environment & Heritage

Dr Jack da Silva. School of Molecular & Biomedical Science

Dr Mike Gardner. School of Earth & Environmental Sciences

Dr Fred Gurgel. Joint-appointment among the School of Earth & Environmental Sciences, State Herbarium of South Australia Department for Environment and Heritage and South Australia Research & Development Institute, Aquatic Sciences.

Professor Robert Hill. School of Earth & Environmental Sciences, and South Australian Museum

Dr Mark Hutchinson. South Australian Museum and Affiliate Lecturer in School of Molecular Biosciences

Dr John Jennings. School of Earth & Environmental Sciences

Jürgen Kellermann. State Herbarium of South Australia Department for Environment and Heritage.

Associate Professor Mike Lee. South Australian Museum and School of Earth & Environmental Sciences

Dr Mark Stevens. South Australian Museum.

Associate Professor Ian Whittington. Joint appointment, South Australian Museum and School of Earth & Environmental Sciences

Postdoctoral Fellows and Research Associates

Dr Cecile Bacles. University of Queensland
Dr Edward Biffin. School of Earth & Environmental Sciences
Dr Ray Carpenter. School of Earth & Environmental Sciences
Dr Leslie Chisholm. School of Earth & Environmental Sciences
Dr Francis Clark. School of Earth & Environmental Sciences
Dr Kerrie Davies. School of Agriculture, Food & Wine
Dr Steve Delean. School of Earth & Environmental Sciences
Dr Gaynor Dolman. School of Earth & Environmental Sciences
Dr Lachlan Farrington. School of Earth & Environmental Sciences
Dr Damien Fordham. School of Earth & Environmental Sciences
Dr Michelle Guzik. School of Earth & Environmental Sciences
Mr Andrew Hugall. South Australian Museum and School of Earth & Environmental Sciences
Dr Kate Hutson. School of Earth & Environmental Sciences
Dr Marta Kasper. School of Earth & Environmental Sciences
Dr Rachael King. School of Earth & Environmental Sciences
Dr Remko Leijts. South Australian Museum, and School of Earth & Environmental Sciences
Dr Dean Male. School of Earth & Environmental Sciences
Dr Camille Mellin. School of Earth & Environmental Sciences
Dr Nicholas Murphy. School of Earth & Environmental Sciences
Dr Kym Ottewell. School of Earth & Environmental Sciences
Dr Rosemary Paull. South Australian Museum and School of Earth & Environmental Sciences
Dr Peter Prentis. University of Queensland
Dr Kate Sanders. School of Earth & Environmental Sciences
Dr Adam Skinner. School of Earth & Environmental Sciences
Dr Gary Taylor. School of Earth & Environmental Sciences

Postgraduate Students

Kym Abrams	Systematics and phylogeny of the Parabathynllidae (Bathynellacea, Crustacea) of Australia	A Austin, S Cooper, M Guzik, R King
Adam Allford	Biology and ecology of stygofauna in the Yilgarn region of Western Australia	A Austin, S Cooper
Wahi Azmi	Ecological aspects of aquatic invertebrate communities in tropical and temperate streams	J Jennings, J Facelli
Melissa Bauer	Sperm pleiomorphism in Australian native rodents	B Breed
Tessa Bradford	Modes of speciation in subterranean water beetles	S Cooper, A Austin
Andrew Breed	Assessment of the risk of introduction of Nipah virus to Australia via flying-foxes	S Donnellan

Aaron Camens	Diprotodontid palaeobiology and systematics	M Lee
Craig Costion	The Australasian Floristic Interchange. Tree barcoding, conservation, and evolutionary origins of the Australasian wet tropics flora	A Lowe
Siobhan de Little	Demography and control of disease-carrying tropical mosquitoes in northern Australia	C Bradshaw, B Brook
Wetjens Dimmlich	Spawning in anchovies	B Breed, M Geddes
Adam Dinsdale (UQ remote)	Phylogeography and landscape genetics of whitefly	A Lowe
Eleanor Dormontt	Why do only some exotics become invasive? Combining ecological and genomic approaches to address alternative hypotheses in a recent Australian weed.	A Lowe
Renate Faast	Pollination and reproductive success of terrestrial orchids: Implications of habitat fragmentation	J Facelli, A Austin
Nicholas Fuller	Population genetics and socioecology of bats (<i>Nyctophilus gouldi</i> and <i>N. geoffroyi</i>) in fragmented populations of south-eastern Australia	S Carthew, S Cooper
Jaro Guzinski	Genetic population structure in parapatric ticks	S Donnellan
Nerissa Haby	Does the inclusion of fine scale information to coarse parameter models improve population viability forecasts for small coastal and arid mammals?	B Brook
Julie Hagen	Behavioural ecology and population structure in the Solomons Islands prehensile-tailed skink	S Donnellan
Bert Harris	The interactive effects of habitat degradation and climate change on Southeast Asian and Australian birds	B Brook, D Fordham
James Hereward (UQ remote)	Host association, coevolution and gene flow in mirids	A Lowe
Salvador Herrando-Pérez	Factors controlling population size and extinction risk	C Bradshaw, B Brook
Margaret Heslewood	Phylogeography and biogeography of genera in the family Cunoniaceae in Australia	A Lowe
Christopher Izzo	Telomere based ageing of chondrichthyan & teleost species	S Donnellan, B Gillanders
Takeshi Kawakami	Systematics, phylo-geography and speciation of chromosomally diverse Australian morabine grasshoppers	S Cooper
Kim-Leang Loeun	Sustainable deep-sea snapper fisheries in New Caledonia	C Bradshaw

Andrew Lowther	Social and genetic factors shaping alternate foraging strategies within and between Australian sea lion subpopulations	S Donnellan
Jarod Lyon	Murray River riparian and in-stream habitat restoration	C Bradshaw
Fran McGillivray	Tracking phenological shifts and evolutionary impacts due to climate change	A Lowe, J Conran
Rohan Mellick	The affect of Quaternary climate change on the distribution of a rainforest gymnosperm (<i>Podocarpus elatus</i>) along the east coast of Australia using palynological and molecular evidence	A Lowe
Kate Muirhead	Biosystematics and biology of the <i>Cotesia falvipes</i> complex of wasps	A Austin
Trevor Nottle	Landscape Ecology in Street Trees	J Jennings
Liberty Olds	Comparative studies on native rodents in NW Western Australia	B Breed, D Taggart
Paul Oliver	Biodiversity and evolution of Australian geckos	M Lee, S Cooper
Elizabeth Perkins	Molecular systematics, phylogeny & radiation of Capsalidae (<i>Monogenea</i>)	I Whittington, S Donnellan
Sally Potter	Life history and population genetics of rock wallabies in the north Kimberley	S Cooper, D Taggart, M Eldridge
Luke Price	Systematics of the Australo-Papuan tree frogs	S Donnellan
Ihsan Abdl Azez Abdul Raheem	Systematic and evolutionary studies of the eastern and southern Australian clade of the genus <i>Hibbertia</i> Andrews subgenus <i>Hemistema</i> (Thouars) J.W.Horn	J Conran
Nicolas Rawlence	Moa evolution and ancient DNA	A Cooper, J Austin, M Lee
Terence Reardon	Systematics and biogeography of <i>Mormopterus</i> (Chiroptera: Molossidae)	S Carthew, S Cooper
Jolene Scoble	Novel approaches for assessing historical and contemporary vegetation condition in Australian rangelands	A Lowe
Ana Sequiera	Behavioural ecology of filter-feeding sharks: seasonal space use and foraging behaviour	C Bradshaw
Pranay Sharma	Integrating Morphological and Genetic Techniques for a Systematic Inventory of Zooplankton Communities in South Australian Drinking Water Reservoirs	S Mills
Udani Sirisena	Systematic studies on fringe lilies	J Conran
Mark Sstrom	The systematics and evolutionary history of the Gecko genus <i>Gehyra</i> in Australia	M Hutchinson, S Donnellan

Kate Sparks	Molecular systematics and ecology of the <i>Monomorium rothsteini</i> species complex (Hymenoptera: Formicidae)	A Austin, S Donnellan
Elisa Sparrow	Reproductive biology and genetical relationships in wombats	B Breed, S Cooper, D Taggart
Tasha Speight	Kidney disease in koalas	B Breed, J Haynes, D Taggart, W Boardman
Nicholas Stevens	Systematics of Australian agathidine wasps (Insecta: Hymenoptera: Braconidae); solitary endo-parasitoids of lepidopteran leaf-rolling larvae	A Austin, J Jennings, N Murphy
Christine Swann	The evolution and function of the zona pellucida in Australian rodents	B Breed, S Cooper
Nuttawat Tithipramote	Seasonal changes in germ cell production in bandicoot rats	B Breed
Sally Thompson	Systematics and biogeography of the parasitic wasp genus <i>Oxyscelio</i> (Hymenoptera: Scelionidae)	A Austin, S Cooper, J Jennings
Lochran Traill	Impacts of harvest under climate change; Conservation of tropical waterfowl in a changing environment	B Brook
Karleah Trengove	The ecology and management of reintroduced populations of the greater bilby, <i>macrotis lagotis</i> , in South Australia	B Breed, S Carthew, S Cooper
Daniel Walker	Potential control methods for the Western Cape Form of bridal creeper	J Conran
Thomas Wanger	Impact of land-use and climate change on amphibians and reptiles of Sulawesi (Indonesia)	B Brook
Harsha Wechaleker	Effect of whole body heating on sperm production in rodents	B Breed, E Peirce, M Ricci, B Setchell
Jessie Wells (UQ remote)	Spatial ecology of plant regeneration in secondary rainforests of the wet tropics	A Lowe
Rissa Williams	Novel treatments for <i>Monogenea</i> infecting commercially important finfish species in aquaculture	I Whittington
Maria Zammit	Studies into the Ichthyosaur <i>Platypterygius lonemani</i> (Reptila: Diapsida: Ichtyopterygia)	J Jennings, B Kear, R Norris

Research Groups

Evolution and biodiversity of Australian terrestrial arthropods

(Prof Andy Austin, Dr John Jennings, Dr Nick Murphy, Dr Kerrie Davies, Dr Gary Taylor)

This program comprises a series of projects that deal with evolutionary and biodiversity aspects of terrestrial arthropods. These include:

Evolutionary aspects of insect parasitoids, including the evolution of endoparasitism, polydnavirus associations, and host-parasitoid co-evolution

- Molecular phylogeny of the major groups of parasitic Hymenoptera using both sequence data and mitochondrial genome organisation
- Systematics of specific groups of Hymenoptera, including the Braconidae, Scelionidae, Gasteruptiidae, Aulacidae and Xiphydriidae
- Evolution and systematics of the Australian lycosid spider fauna
- Community structure of terrestrial arthropods in sclerophyll forest, semi-arid deserts, and guano cave systems
- Speciation, molecular phylogeny and co-evolution of *Fergusonina* flies and *Fergusonia* nematodes associated with galls on myrtaceous plants.

These projects have a strong systematics basis that utilizes traditional comparative morphological and molecular techniques, and they are underpinned by a comprehensive field program that supports a major insect collection, the Waite Insect and Nematode Collection.

Systematics of the Australian flora

(Dr W.R. Barker, Dr H.R. Toelken, Dr R.J. Chinnock, Mr G.H. Bell; Honorary Associates, Professor H.B.S. Womersley, Dr D.E. Symon, Ms R.M. Barker, Ms P. Catcheside)

The State Herbarium coordinates with other Australian herbaria and systematists in advancing the knowledge of the Australian flora through advancing plant classification. Its work includes recognition of new species and resolution of species complexes in South Australia to more intensive revisions of the classification of genera and families in Australia or the Australian region. The latter involve traditional morphological study but increasingly involves collaboration with molecular researchers in other institutions. Current research projects include:

- Systematics of Australian Solanaceae
- Systematics of naturalised blackberry (*Rubus*: Rosaceae) in Australia
- A taxonomic monograph of the Myoporaceae.
- Systematics and evolution of Australian Scrophulariaceae
- Systematics and evolution of Stackhousiaceae
- A taxonomic revision of *Hibbertia* (Dilleniaceae)
- A taxonomic review of Australian Cactaceae.

Evolution of mammalian sperm and eggs

(Assoc Prof Bill Breed, Assoc Prof Steve Cooper, Em Prof Brian Setchell, Dr David Taggart, Dr Mario Ricci, Dr Eleanor Peirce)

Our research program mainly consists of a variety of studies on the evolution and diversity of mammalian gamete form and function. Present investigations include:

- Evolution of the sperm combining region on the glycoprotein egg coat, the zona pellucida, in marsupials and rodents
- Evolution of sperm form of muroid rodents especially that of species from the Australasian and southeast Asian regions
- Factors underlying the divergence of male gonad size and sperm numbers produced in muroid rodents
- Evolution of form, function, and molecular organisation of the sperm head cytoskeleton of Australasian rodents
- Molecular organisation and function of the marsupial sperm tail cytoskeleton.

Ancient DNA research

(Dr Jeremy Austin, Prof Alan Cooper)

The Australian Centre for Ancient DNA (ACAD) building is now close to fully operational and apart from the normal teething problems and construction glitches we are up and running. Dr Jeremy Austin (ACAD Manager) has done a sterling job in dealing with the various buck-passing manoeuvres that seem integral to any modern construction project. We're also pleased to announce we have obtained AQIS certification and can now move all of our materials out of the various fridges and freezers they have been sequestered in for the past year. The first three PhD students have arrived, (Laura Watson, Sarah Bray and Nic Rawlence) and have started their research projects. An honours student is also underway, through the School of Molecular and Biomedical Sciences genetics program with Jack Da Silva.

Along with Steve Donnellan, Alan Cooper obtained a LIEF grant (\$115,000) to increase the PCR capacity of the South Australian Regional Facility for Molecular Ecology & Evolution to cope with the rapidly expanding use of these facilities. So far, 15 Corbett Palm Cyclers and a Real Time Machine have been ordered and should soon be in use. Alan Cooper and Tim Flannery were awarded an ARC Discovery grant (\$470,000) on using ancient DNA to examine the environmental impacts of climate change and humans over the past 50,000 years.

Diversity, evolution and population dynamics of stygofauna from the Yilgarn Region of central Western Australia

(Dr Steve Cooper, Prof Andy Austin, Dr Bill Humphreys - WA Museum, Ms Kathy Saint, Dr Remko Leijts, Dr Chris Watts – South Australian Museum, Dr John Bradbury, Dr Michelle Guzik, Mr Adam Allford – University of Adelaide, Dr Stefano Taiti -Italy, Dr Joo-Lae Cho - South Korea)

This project involves a large collaborative team of scientists who are studying the diversity and evolution of a recently discovered subterranean invertebrate fauna (stygofauna) found in numerous (>50) isolated calcrete aquifers in the Yilgarn region of central Western Australia. The fauna comprises largely unknown species in diverse invertebrate groups including water beetles (Coleoptera), and crustaceans such as Syncarida, Isopoda, Amphipoda, Copepoda and Ostracoda. Our recent data from diving beetles suggest that stygofaunas within each aquifer may be highly endemic and we are exploring this possibility further using a combination of molecular genetic and morphological analyses of other components of the stygofauna, including amphipods, isopods (*Haloniscus*) and bathynellid syncarids. As part of an ARC Linkage grant, we are also developing rigorous sampling methods and studying the environmental variability within aquifers, based at a newly established field station at the Sturt Meadows pastoral property. A further aim of this project is to investigate the population structure/dynamics of diving beetle species using microsatellite DNA

markers. These investigations have important implications for the sustainable management of the aquifers and the stygofauna within them.

The Process of adaptation at the molecular level: HIV and the immune system

(Dr Jack da Silva)

Progress in understanding the process of adaptation at the molecular level has been impeded by the lack of a mature population genetic theory of adaptation and by a poor understanding of the sources and targets of selection. One way forward is to model a system that is well understood at the molecular level and then use ‘simulation experiments’ to test hypotheses about which factors affect the rate and limit of adaptation. This approach has two main advantages: it allows manipulations that would be impossible, too costly, or unethical with real experimental systems, and it allows a reductionist approach to modelling that does not require the unrealistic or untested simplifying assumptions often required of more tractable (analytical) mathematical models. However, a major obstacle to this approach, when applied to the protein level, is that it requires knowledge of the fitness effects of all amino acids at all sequence sites. I solve this problem by using site-specific amino acid frequencies as correlates of fitness effects, and apply this approach to model the adaptive evolution of human immunodeficiency virus type 1 (HIV-1). Simulations with this model are being used to investigate the effects of mutation rate, mutation bias, epistasis, pleiotropy, cell superinfection, and viral recombination on the rates and limits of adaptation at the molecular level.

DNA fingerprinting and wildlife management

(Prof. Steve Donnellan, Prof Amanda Goodman, Prof M. Henneberg)

This program aims to develop a range of DNA fingerprinting “tools” that will assist wildlife managers to more efficiently monitor and protect wild populations of Australian and Melanesian reptiles, in particular the pythons and goannas which are much sought after by the pet trade. The research has utilised a range of genetic markers and revealed little appreciated aspects of the evolutionary dynamics of DNA fingerprinting “genes”. The results have also provided detailed insights into the systematics of the pythons and goannas, in the case of pythons rejecting and in the case of goannas confirming previous notions of their origins. We are also investigating the reliability of DNA fingerprint profiles obtained from decayed carcasses and soil as part of establishing the markers for use in a wide range of forensic and archaeological settings.

Evolution and Palaeobiology of the Australian flora

(Prof Bob Hill, Dr Rosemary Paull)

Southern Australia is the best place in the world to study the effects of long-term climate change on vegetation. This is because Australia has moved through approximately 20° of latitude since it separated from Antarctica about 35 million years ago, and during that time this movement has had a profound impact on the global and, more specifically, Australian climate. The study of the effect of this climate change on the vegetation is made possible by the excellent preservation of Cainozoic plant fossils in central and south-eastern Australia. This has been coupled with physiological research on the nearest living relatives of the fossils so that a reconstruction of the reasons behind plant evolution and/or distributional change can be attempted. This program utilises the fossil record and the living relatives of the fossils to document the impacts of lowering temperatures and reduced water

availability on the vegetation of a large region. Such data are vital to our understanding of the potential impact of future, much shorter term, climate change.

Evolution and systematics of living and fossil reptiles

(Assoc Prof Michael Lee, Dr Mark Hutchinson)

Anatomical, palaeontological and molecular approaches are being used to address important questions in reptile evolution, including:

- The tempo and major divergences in squamates (lizards and snakes) based on nuclear genes.
- Diversity of marine reptiles in Australia's Cretaceous inland sea.
- Systematics of Australian agamids (dragons) skinks and diplodactyline geckos.
- Evolutionary mechanisms of limb loss in the diverse scincid lizard *Lerista*.
- Molecular phylogenetics of Australian elapid snakes.
- Phylogeography of arid zone geckos
- Fossil record of Australian lizards

Ecology and Evolutionary Genetics of Plants

(Prof Andrew Lowe, Dr Ed Biffin, Dr Kym Ottewell, Dr Peter Prentis)

Our researchers use the latest genetic techniques to investigate ecological and evolutionary questions helping inform pressing conservation issues. This is facilitated through our integration with the South Australian Department of Environment and Heritage, the State Herbarium and Bioknowledge.

- Gene flow between species – hybridisation and weed adaptation
- Gene flow between populations – historical range shifts due to climate change
- Gene flow between individuals – population genetics
- The political and economic dimension of gene flow

Biology, systematics and evolution of marine parasites

(Dr Ian Whittington, Dr Leslie Chisholm)

The Monogenean Research Laboratory at The South Australian Museum and The Marine Parasitology Laboratory at The University of Adelaide focus on parasites of marine fishes. Of particular emphasis is the Monogenea, a class of flatworms with a direct life-cycle which chiefly parasitise skin, fins and gills of elasmobranch and teleost fishes. Elements of our research are especially relevant to South Australia because teleost fish reared in sea cage aquaculture in Spencer Gulf can experience parasite problems. Activities, therefore, of some Honours and PhD students continue to investigate features of the biology, epidemiology and treatment of Monogenea on kingfish, *Seriola lalandi*, in aquaculture. Currently, our research programs embrace several discrete projects investigating parasites of wild and cultivated fish species locally and also overseas. Recent studies have also involved identifying flatworm parasites using morphological and molecular genetic methods in captivity in public display aquaria and from fish farms worldwide to determine how widespread and how host-specific some pathogens are on a global scale.

- Life cycle parameters of the monogenean parasites *Zeuxapta seriolae* and *Benedenia seriolae* from *Seriola lalandi* in South Australian finfish aquaculture

- A survey of parasites from wild and farmed carangids (*Seriola lalandi* and *S. hippos*) in southern Australia
- Efficacy of potential chemotherapeutants against Monogenea of farmed *Seriola* species
- Stock discrimination of slimy mackerel (*Scomber australasicus*) throughout Australia and New Zealand using parasites, genetics and otoliths
- The southern fiddler ray, *Trygonorrhina fasciata*, as a model host to investigate parasitism of elasmobranchs
- Sharing of parasites among the Rhinobatidae (guitarfish; shovelnose rays) in southern Australian
- Phylogeny and evolution of the Capsalidae (Monogenea), ectoparasitic on a diversity of fishes, using morphological characters, molecular genetics and host associations
- Systematics of Monogenea (Platyhelminthes) from the sharks and rays of Malaysian Borneo
- Cryptic species complexes among pathogenic Monogenea on wild and cultivated warm water fishes
- Capsaline Monogenea (Monopisthocotylea) of large, cosmopolitan, migratory pelagic fishes: revisiting species composition, diversity and distribution of the parasites

All our studies are integrated to help us build a more complete picture about the evolution, associations and interactions between marine parasites and their fish hosts. A thorough knowledge of the biology of the parasites will help to develop methods by which they can be managed and controlled on captive hosts in public display aquaria and in aquaculture.

Go to <http://www.adelaide.edu.au/environment/acebb/projects/> for more information

Collaboration

Members of ACEBB have very strong links with research groups around Australia and internationally. These have resulted in several initiatives, as well as numerous joint grant applications and co-authored publications during 2007-2008. Some of the major linkages with members of The Centre over this period are:

Andy Austin

- Dr Mark Dowton, University of Wollongong, Project: The molecular evolution and phylogeny of the parasitic Hymenoptera.
- Dr Mark Harvey, Western Australian Museum, Project: Development of an interactive key to the identification of Australasian invertebrate orders.
- Dr Bill Humphreys, Western Australian Museum, Project: The evolution and diversity of stygofauna associated with calcretes in the Yulgan region of Western Australia.
- Dr Norman Johnson, Ohio State University, Project: Systematics, phylogeny and higher-level classification of platygastroid wasps.
- Dr John La Salle, CSIRO, Entomology, Project: Development of an interactive platform for the identification of Australasian Hymenopteran families.
- Dr Jim Whitfield, University of Illinois, Project: Phylogeny of microgastroid braconid wasps.

Jeremy Austin

- Jim Groombridge, Durrell Institute of Conservation & Ecology, University of Kent, Project: Phylogeny of extinct Indian Ocean birds.
- Jane Melville, Museum Victoria, Project: Phylogeography of arid-zone reptiles.
- Paul Doughty, West Australian Museum, Project: Systematics of Australian reptiles.
- Nick Arnold, British Museum, Natural History, Project: Phylogeny of Indian Ocean island reptiles.
- Juan Sanchez, Institute of Forensic Medicine, University of Copenhagen, Project: Ancient human DNA.
- Melanie Lancaster, Department of Genetics, La Trobe University, Project: Ancient DNA from Macquarie Island to identify pre-European species.
- Gillian Gibb, Allan Wilson Centre, Massey University, Project: Mitochondrial genome sequencing of extinct birds.
- Ken Aplin, CSIRO - Sustainable Ecosystems, Project: Phylogeny of Australasian rodents.

Bill Barker Dr P Beardsley, Idaho State University, USA, Project: Molecular studies in the sub-tribe Mimulineae (Scrophulariaceae).

- Mr Dwayne Estes, Dept of Ecology & Evolutionary Biology, Knoxville, USA, Project: A world-wide taxonomic revision of Gratiola (Scrophulariaceae).
- Prof Michael Kiehn, Department of Biogeography and Botanical Garden, Vienna, Project: Chromosomal evolution of Stackhousiaceae.

Bill Breed

- Prof M Eddy - NIH, Research Triangle, North Carolina, Project: Marsupial sperm tail cytoskeletal proteins.
- Dr Larry Heaney - Field Museum of Natural History, Chicago, Project: Evolution of sperm morphology of murine rodents.
- Prof Tim Birkhead - Dept of Plant and Animal Sciences, University of Sheffield, Project: Sperm cooperation and sperm motility in rodents.

- Prof Richard Oko - Queens University, Kingston, Ontario Canada, Project: Cytoskeletal proteins in the sperm head of murine rodents.
- Dr Jamie Chapman - Discipline of Anatomy and Physiology, University of Tasmania, Project: Glycoproteins of the marsupial egg coat.

John Conran

- Ms Jennifer Bannister and Dr Daphne Lee, University of Otago, New Zealand, Project: Fossil monocots from New Zealand.
- Prof Mark Chase, RBG Kew, Project: The molecular systematics and phylogeny of Australian monocots.
- Mr Paul Forster, Qld Herbarium, Project: Systematics of Romnaldia (Laxmanniaceae).
- Dr Jie Li Xishuangbanna, Tropical Botanical Garden, Kunming, P.R. China, Project: The molecular evolution and phylogeny of the Laureae (Lauraceae).
- Mr Allen Lowrie, Perth, Project: Evolution, systematics and biology of Australian carnivorous plants.
- Dr Terry Macfarlane, DEC WA, Project: Systematics of Australian Laxmanniaceae.
- Dr Paula Rudall, RBG Kew, Project: The morphological evolution and diversity of Australian monocots.
- Prof Hiroshi Tobe, Kyoto University, Japan, Project: Evolution in the Smilacaceae.
- Mr Phillip Simpson, New Zealand, Project: Fossil palms in Miocene New Zealand.

Steve Cooper

- Professor Roger Butlin, University of Leeds, UK, Project: Population genetics and evolution of morabine grasshoppers, genus Vandiemena.
- Dr Bill Humphreys, Western Australian Museum, Project: The evolution and diversity of stygofauna associated with calcretes in the Yilgarn region of Western Australia.
- Assoc Prof Mike Schwarz, Flinders University, Project: Social evolution and molecular systematics of allodapine bees.
- Dr Stefano Taiti, Istituto per lo studio degli ecosistemi, Florence, Italy, Project: Systematics of Haloniscus isopods from calcrete aquifers of the Yilgarn region of WA.
- Dr Mark Harvey, Western Australian Museum, Project: Systematics of moggridgea spiders from Western Australia.
- Dr David Paull, University of NSW, Project: Population genetics and evolution of morabine grasshoppers, genus Vandiemena.
- Dr Joo-Lae Cho, International Drinking Water Centre, South Korea, Project: Systematics of bathynellid stygofauna from the Yilgarn region of Western Australia.

Jack da Silva

- Drs Kyle Summer and Tom McConnell, East Carolina University, Project: Evolutionary Dynamics of the DAB and DXB MHC II loci in Xiphophorus fishes.

Kerrie Davies

- Assoc Prof Robin Giblin-Davis and Dr Weimin Ye, University of Florida; and Dr Kelley Thomas, University of New Hampshire, Project: Speciation, molecular phylogeny and co-evolution of Fergusonina flies, Fergusonia nematodes and their myrtaceous hosts.

Steve Donnellan

- Dr Chris Austin, Louisiana State University, Baton Rouge, Project: The phylogeography of New Guinean reptiles and frogs.
- Dr Don Driscoll, Flinders University, Project: The impact on genetic diversity of drying of the palaeo-Lake Bungunnia – implications for conservation genetics.
- Dr Paul Doughty, Western Australian Museum, Project: Systematics of the brood frogs.
- Dr Joe Benshemesh, Monash University, Project: Systematics and population biology of marsupial moles.

- Dr Ken Aplin, Australian National Wildlife Collection, Project: Systematics of the Australian and New Guinean vertebrates.
- Professor Arthur Georges, Canberra University, Project: Conservation biology of the broad-shelled turtle
- Professor Craig Moritz, University of California, Project: Molecular systematics of the Australo-Papuan treefrogs (Hylidae).
- Associate Professor Michael Mahony, University of Newcastle, Project: Molecular systematics of the Australo-Papuan treefrogs (Hylidae).
- Professor Mike Bull, Flinders University, Project: Biology of Egernia group skinks lizards.

Bob Hill

- Dr Sung Soo Whang, Chonbuk National University, South Korea, Project: Conifer morphology.
- Dr Tim Brodribb, Harvard University, Project: Conifer eco-physiology.
- Assoc. Prof. Andrew Drinnan, University of Melbourne, Project: Plant macrofossil evidence for evolution of the Australian vegetation.

Mark Hutchinson

- Arthur Georges, Canberra University, Project: Conservation Biology of the broad-shelled turtle.
- Mike Bull, Flinders University, Project: Conservation biology of endangered lizards (Tiliqua and Egernia).
- David Chapple, Victoria University of Wellington, Project: Evolution of the Egernia whitii complex.

John Jennings

- Dr David Smith, Systematic Entomology Laboratory, National Museum of Natural History, Smithsonian Institution, Washington, D.C., Project: Revision of miscellaneous Pseudofoenus and Gasteruption spp. (Hymenoptera: Gasteruptionidae).
- Dr Nathan Schiff, USDA Forest Service, Center for Bottomland Hardwoods Research, Stoneville, Project: Revision of the Australasian wood-boring sawflies (Hymenoptera: Xiphydriidae).
- Dr Andy Deans, Department of Entomology, University of Illinois, Urbana, Project: Revision of Australian hatchet wasps (Hymenoptera: Evaniidae).
- Dr Alexandre Aguiar, Museu de Zoologica da Universidade de São Paulo, Brazil, Project: New Caledonian Stephanidae.

Mike Lee

- John Scanlon, University of NSW and Outback at Isa, Project: Early snake evolution.
- Mike Caldwell, University of Alberta, Edmonton, Project: Marine reptiles.
- Tod Reeder, San Diego State University, San Diego, Project: The deep scaley project (NSF Tree of Life grant).

Andrew Lowe

- Dr Maurizio Rosetto and Dr Darren Crayn, Sydney Botanic Gardens and Dr Pete Hollingsworth, Royal Botanic Gardens Edinburgh, UK, Project: Plant biogeography and population genetics.
- Dr Susanne Schmidt and Peer Schenk, University of Queensland, Project: Plant genomics and polyploid evolution.
- Prof Richard Abbott, University of St Andrews, UK and Prof Loren Rieseberg, University of British Columbia, Canada, Project: Weed genetics and speciation.
- Dr Stephen Cavers, Centre for Ecology and Hydrology, UK and Dr Carlos Navarro and Dr Bryan Finegan, Central American Tropical Research Centre, Costa Rica, Project: Tropical tree population genetics.

- Prof Antroine Kremer and Dr Remy Petit, National Agronomic Research Institute, France, and Dr Giovanni Vendramin, National Research Centre, Italy, Project: Temperate and tropical tree population genetics.
- Hugh Possingham and Yvonne Buckley, University of Queensland, Project: Ecology, biogeography, dispersal and weed population dynamics.

Gary Taylor

- Assoc Prof Robin Giblin-Davis and Dr Weimin Ye, University of Florida; Dr Kelley Thomas, University of New Hampshire; Dr Sonja Scheffer, Systematic Entomology Lab, USDA, Beltsville, MD, Project: Speciation, molecular phylogeny and co-evolution of Fergusonina flies, Fergusonia nematodes and their myrtaceous hosts.
- Matthew Purcell, Australian Biological Control Laboratory, CSIRO Entomology, Brisbane; Dr Greg Wheeler, USDA—ARS, Invasive Plant Research Laboratory, Ft. Lauderdale, FL USA, Project: Systematics and co-evolution of insect herbivores of Casuarina for development as potential biological control agents in Florida, USA.

Ian Whittington & Leslie Chisholm

- Professor Janine Caira, University of Connecticut, Dr Kirsten Jensen, University of Kansas, Dr Gavin Naylor, Florida State University, Drs Peter Last and John Stevens, CSIRO Marine Research, Hobart, Project: Collections of parasites from sharks and rays from Sarawak and Sabah, Malaysian Borneo.
- Dr Kevin Christison, University of the Western Cape, South Africa, Project: Monogenea of elasmobranchs and teleosts in public aquaria.
- Roxana Inohuye Rivera and Juan Carlos Pérez Urbiola, Centro de Investigaciones Biológicas del Noroeste (CIBNOR), La Paz, Baja California Sur, México, Project: Complexities in the systematics of Neobenedenia ‘species’ known to occur on marine fishes in the region.
- Federico José Rotman, Kona Blue, Holoaloa, Hawaii, USA, Project: Pathogenic Monogenea in finfish aquaculture.
- Dr Graham Kearns, University of East Anglia, Norwich, U.K., Project: Biology and systematics of capsalid Monogenea from stingrays and teleost flatfishes.
- Dr Simonetta Mattiucci, Department of Public Health Sciences, Section of Parasitology, University of Rome “La Sapienza”, Italy, Project: Identity of capsalid parasites from istiophorids in the Mediterranean Sea and Atlantic Ocean.
- Dr Andy Shinn, Institute of Aquaculture, University of Stirling, Scotland, Project: Image analysis and recognition of parasites using image recognition software.
- David Vaughan, Two Oceans Aquarium, Cape Town, South Africa, Project: Monogenea of elasmobranchs and teleosts in public aquaria.
- Dr Olivier Verneau, Parasitologie Fonctionnelle et Evolutive, Université de Perpignan, France, Project: Use of parasitic platyhelminths to study the early evolution of neobatrachian frogs.

Communication

The ACEBB website has been completely upgraded and revamped. It, together with ACEBB, has [as of 2009] been integrated with the Environment Institute with much effort by Martin Breed and Scott Mills from the Environment Institute. The website can be found at www.adelaide.edu.au/environment/acebb.html. It provides a portal into all of the activities of ACEBB, including information on members, research groups, grants and publications.

Seminars & Training

Date	Topic
16 Mar 2007	The Grand and Otago skink recovery project <i>Speaker: James Reardon, Grand and Otago Skink Recovery Programme Manager, Department of Conservation, Dunedin, New Zealand.</i>
28 Mar 2007	Molecular palaeobiology and the Cambrian explosion <i>Speaker: Kevin Peterson, Dartmouth College, Hanover.</i>
18 Apr 2007	The role and program of the Australian Biological Resources Study - ABRS <i>Speaker: Cameron Slatyer, Director, ABRS, Department of Environment & Water Resources.</i>
22 Sep 2007	Disentangling the complex web of climatic change and human colonization on the flora and fauna of Pleistocene Australia <i>Speaker: Professor Gifford H. Miller, INSTAAR Fellow at the University of Colorado.</i>
21-25 Jul 2008	National Postgraduate Training Workshop in Systematics <i>Organising Committee: Andy Austin, Sarah Bray, Steve Donnellan, Michelle Guzik, Kate Hutson, Nick Murphy</i> <i>Sponsors: Australian Biological Resources Study, ARC Environmental Futures Network, ARC-NZ Research Network for Vegetation Function, Taxonomy Research & Information Network, ACEBB</i>
14 Oct 2008	Gymnosperms on the Tree of Life: Reconstructing the Phylogeny of Seed Plants <i>Speaker: Sarah Matthews, Sargent Fellow, Arnold Arboretum, University of Harvard</i>
21 Oct 2008	Molecular genetic technologies to study population genetics and evolution <i>Speaker: Pete Hollingsworth, Royal Botanic Gardens Edinburgh</i>
6 Nov 2008	Environmental Risk Assessment of Genetically Modified Crops <i>Speaker: Alan Raybould</i>

Publications

Peer-Reviewed Journal Articles – 2007

Citation	#
Aguiar, A. P., and J. T. Jennings. 2007. New Caledonia as the centre of origin of <i>Parastephanellus</i> Enderlein, with a phylogeny and description of the female of <i>P. khogis</i> Aguiar (Hymenoptera, Stephanidae). <i>Zootaxa</i> :15-24.	1
Banfai, D. S., B. W. Brook, and D. Bowman. 2007. Multiscale modelling of the drivers of rainforest boundary dynamics in Kakadu National Park, northern Australia. <i>Diversity and Distributions</i> 13:680-691.	2
Bierla, J. B., Z. Gizejewski, C. M. Leigh, H. Ekwall, L. Soderquist, H. Rodriguez-Martinez, K. Zalewski, and W. G. Breed. 2007. Sperm morphology of the Eurasian beaver, <i>Castor fiber</i> : An example of a species of rodent with highly derived and pleiomorphic sperm populations. <i>Journal of Morphology</i> 268:683-689.	3
Biffin, E., M. G. Harrington, M. D. Crisp, L. A. Craven, and P. A. Gadek. 2007. Structural partitioning, paired-sites models and evolution of the ITS transcript in <i>Syzygium</i> and <i>Myrtaceae</i> . <i>Molecular Phylogenetics and Evolution</i> 43:124-139.	4
Bowman, D., D. C. Franklin, O. F. Price, and B. W. Brook. 2007. Land management affects grass biomass in the <i>Eucalyptus tetrodonta</i> savannas of monsoonal Australia. <i>Austral Ecology</i> 32:446-452.	5
Bradshaw, C. J. A. 2007. Swimming in the deep end of the gene pool: global population structure of an oceanic giant. <i>Molecular Ecology</i> 16:5113-5114.	6
Bradshaw, C. J. A., and B. W. Brook. 2007. Ecological-economic models of sustainable harvest for an endangered but exotic megaherbivore in northern Australia. <i>Natural Resource Modeling</i> 20:129-156.	7
Bradshaw, C. J. A., H. F. Mollet, and M. G. Meekan. 2007. Inferring population trends for the world's largest fish from mark-recapture estimates of survival. <i>Journal of Animal Ecology</i> 76:480-489.	8
Bradshaw, C. J. A., I. C. Field, D. Bowman, C. Haynes, and B. W. Brook. 2007. Current and future threats from non-indigenous animal species in northern Australia: a spotlight on World Heritage Area Kakadu National Park. <i>Wildlife Research</i> 34:419-436.	9
Bradshaw, C. J. A., N. S. Sodhi, K. S. H. Peh, and B. W. Brook. 2007. Global evidence that deforestation amplifies flood risk and severity in the developing world. <i>Global Change Biology</i> 13:2379-2395.	10
Bradshaw, C. J. A., Y. Isagi, S. Kaneko, B. W. Brook, D. Bowman, and R. Frankham. 2007. Low genetic diversity in the bottlenecked population of endangered non-native banteng in northern Australia. <i>Molecular Ecology</i> 16:2998-3008.	11
Bradshaw, C. J., B. Brook, and C. R. McMahon. 2007. Dangers of sensationalizing conservation biology. <i>Conservation Biology</i> 21:570-571.	12
Breed, W. G., C. M. Leigh, H. Robertson, L. Mantellato, C. Lambert, A. Jequier, and P. Matson. 2007. Interspecific variation of sperm morphology in the Australian rodent genus <i>Zyzomys</i> . <i>Acta Zoologica</i> 88:257-263.	13
Breed, W. G., M. Bauer, R. Wade, N. Thitipramote, J. Suwajarat, and L. Yelland. 2007. Intra-individual variation in sperm tail length in murine rodents. <i>Journal of Zoology</i> 272:299-304.	14
Brook, B. W., D. Bowman, D. A. Burney, T. F. Flannery, M. K. Gagan, R. Gillespie, C. N. Johnson, P. Kershaw, J. W. Magee, P. S. Martin, G. H. Miller, B. Peiser, and R. G. Roberts. 2007. Would the Australian megafauna have become extinct if humans had never colonised the continent? Comments on "A review of the evidence for a human role in the extinction of Australian megafauna and an alternative explanation" by S Wroe and J Field. <i>Quaternary Science</i>	15

Reviews 26:560-564.

Brook, B., N. Rowley, and T. F. Flannery. 2007. Kyoto: doing our best is no longer enough. <i>Nature</i> 450:478.	16
Brown, M., S. M. Carthew, and S. J. B. Cooper. 2007. Monogamy in an Australian arboreal marsupial, the yellow-bellied glider (<i>Petaurus australis</i>). <i>Australian Journal of Zoology</i> 55:185-195.	17
Carpenter, R., G. Jordan, A. Leigh, and T. Brodribb. 2007. Giant cuticular pores in <i>Eidothea zoexylocarya</i> (Proteaceae) leaves. <i>American Journal of Botany</i> 94:1282-1288.	18
Carpenter, R., G. Jordan, and R. Hill. 2007. A toothed Lauraceae leaf from the Early Eocene of Tasmania, Australia. <i>International Journal of Plant Sciences</i> 168:1191-1198.	19
Chenoweth, L. B., S. M. Tierney, J. A. Smith, S. J. B. Cooper, and M. P. Schwarz. 2007. Social complexity in bees is not sufficient to explain lack of reversions to solitary living over long time scales. <i>BMC Evolutionary Biology</i> 7:(21 December 2007).	20
Chisholm, L. A., and I. D. Whittington. 2007. Review of the capsalinae (Monogenea : Capsalidae). <i>Zootaxa</i> :1-30.	21
Chisholm, L. A., and I. D. Whittington. 2007. The oncomiracidium of <i>Nasicola klawei</i> (Monogenea : Capasalidae : Capsalinae). <i>Parasitology Research</i> 100:467-471.	22
Conran, J. G., and A. Lowrie. 2007. The biogeography of <i>Drosera stricticaulis</i> (Droseraceae) in Australia: A disjunct 'island' refugee? <i>Transactions of the Royal Society of South Australia</i> 131:142-151.	23
Conran, J. G., and J. H. Bradbury. 2007. Aspidistras, amphipods and Oz: Niche opportunism between strangers in a strange land. <i>Plant Species Biology</i> 22:41-48.	24
Convey, P., and M. I. Stevens. 2007. Antarctic Biodiversity. <i>Science</i> 317:1877-1878.	25
Cooper, S. J. B., J. H. Bradbury, K. M. Saint, R. Leys, A. D. Austin, and W. F. Humphreys. 2007. Subterranean archipelago in the Australian arid zone: mitochondrial DNA phylogeography of amphipods from central Western Australia. <i>Molecular Ecology</i> 16:1533-1544.	26
De Little, S. C., C. J. A. Bradshaw, C. R. McMahon, and M. A. Hindell. 2007. Complex interplay between intrinsic and extrinsic drivers of long-term survival trends in southern elephant seals. <i>BMC Ecology</i> 7:3.	27
del Monte-Luna, P., D. Lluch-Belda, E. Serviere-Zaragoza, R. Carmona, H. Reyes-Bonilla, D. Auriolles-Gamboa, J. L. Castro-Aguirre, S. A. G. del Proo, O. Trujillo-Millan, and B. W. Brook. 2007. Marine extinctions revisited. <i>Fish and Fisheries</i> 8:107-122.	28
Doughty, P., B. Maryan, S. C. Donnellan, and M. N. Hutchinson. 2007. A new species of taipan (Elapidae: <i>Oxyuranus</i>) from central Australia. <i>Zootaxa</i> 1422:45-58.	29
Druery, G. V., G. A. Shimmin, D. A. Taggart, P. D. Temple-Smith, W. G. Breed, C. H. McDonald, G. R. Finlayson, and M. C. J. Paris. 2007. Ovarian follicular superstimulation and oocyte maturation in the anoestrous southern hairy-nosed wombat, <i>Lasiiorhinus latifrons</i> . <i>Animal Reproduction Science</i> 99:363-376.	30
Elliott, L. P., and B. W. Brook. 2007. Revisiting chamberlin: Multiple working hypotheses for the 21st century. <i>Bioscience</i> 57:608-614.	31
Fenner, A. L., C. M. Bull, and M. N. Hutchinson. 2007. Omnivorous diet of the endangered pygmy bluetongue lizard, <i>Tiliqua adelaidensis</i> . <i>Amphibia-Reptilia</i> 28:560-565.	32
Field, I. C., C. J. A. Bradshaw, H. R. Burton, and M. A. Hindell. 2007. Differential resource allocation strategies in juvenile elephant seals in the highly seasonal Southern Ocean. <i>Marine Ecology-Progress Series</i> 331:281-290.	33
Field, I. C., C. J. A. Bradshaw, J. van den Hoff, H. R. Burton, and M. A. Hindell. 2007. Age-related shifts in the diet composition of southern elephant seals expand overall foraging niche. <i>Marine Biology</i> 150:1441-1452.	34
Foot, N. J., S. Orgeig, S. Donnellan, T. Bertozzi, and C. B. Daniels. 2007. Positive selection in the N-terminal extramembrane domain of lung surfactant protein C (SP-C) in marine mammals. <i>Journal of Molecular Evolution</i> 65:12-22.	35
Fordham, D. A., A. Georges, and B. Corey. 2007. Optimal conditions for egg storage, incubation and post-hatching growth for the freshwater turtle, <i>Chelodina rugosa</i> : Science in support of an indigenous enterprise. <i>Aquaculture</i> 270:105-114.	36
Fordham, D. A., A. Georges, and B. W. Brook. 2007. Demographic response of snake-necked	37

turtles correlates with indigenous harvest and feral pig predation in tropical northern Australia. <i>Journal of Animal Ecology</i> 76:1231-1243.	
Frost, D. R., T. Grant, J. Faivovich, R. H. Bain, A. Haas, C. F. B. Haddad, R. O. de SA, A. Channing, M. Wilkinson, S. C. Donnellan, C. J. Raxworthy, J. A. Campbell, B. L. Blotto, P. Moler, R. C. Drewes, R. A. Nussbaum, J. D. Lynch, D. M. Green, and W. C. Wheeler. 2007. Is The Amphibian Tree of Life really fatally flawed? <i>Cladistics</i> 23:1-11.	38
Gardner, M. G., C. M. Bull, A. Fenner, K. Murray, and S. C. Donnellan. 2007. Consistent social structure within aggregations of the Australian lizard, <i>Egernia stokesii</i> across seven disconnected rocky outcrops. <i>Journal of Ethology</i> 25:263-270.	39
Gardner, M. G., K. Schonrogge, G. W. Elmes, and J. A. Thomas. 2007. Increased genetic diversity as a defence against parasites is undermined by social parasites: <i>Microdon mutabilis</i> hoverflies infesting <i>Formica lemmani</i> ant colonies. <i>Proceedings of the Royal Society B-Biological Sciences</i> 274:103-110.	40
Garnett, S. T., and B. W. Brook. 2007. Modelling to forestall extinction of Australian tropical birds. <i>Journal of Ornithology</i> 148:S311-S320.	41
Glennon, V., L. A. Chisholm, and I. D. Whittington. 2007. Experimental infections, using a fluorescent marker, of two elasmobranch species by unciliated larvae of <i>Branchotenthes octohamatus</i> (Monogenea : Hexabothriidae): invasion route, host specificity and post-larval development. <i>Parasitology</i> 134:1243-1252.	42
Grafe, T. U., and T. C. Wanger. 2007. Multimodal signaling in male and female foot-flagging frogs <i>Stauroides guttatus</i> (Ranidae): An alerting function of calling. <i>Ethology</i> 113:772-781.	43
Greenslade, P., M. I. Stevens, and R. Edwards. 2007. Invasion of two exotic terrestrial flatworms to subantarctic Macquarie Island. <i>Polar Biology</i> 30:961-967.	44
Harris, J. B. C., and D. G. Haskell. 2007. Land cover sampling biases associated with roadside bird surveys. <i>Avian Conservation and Ecology</i> 2:12.	45
Harvey, M. S., A. D. Austin, and M. Adams. 2007. The systematics and biology of the spider genus <i>Nephila</i> (Araneae : Nephilidae) in the Australasian region. <i>Invertebrate Systematics</i> 21:407-451.	46
Hays, G. C., C. J. A. Bradshaw, M. C. James, P. Lovell, and D. W. Sims. 2007. Why do Argos satellite tags deployed on marine animals stop transmitting? <i>Journal of Experimental Marine Biology and Ecology</i> 349:52-60.	47
Hochscheid, S., C. R. McMahon, C. J. A. Bradshaw, F. Maffucci, F. Bentivegna, and G. C. Hays. 2007. Allometric scaling of lung volume and its consequences for marine turtle diving performance. <i>Comparative Biochemistry and Physiology a-Molecular & Integrative Physiology</i> 148:360-367.	48
Hodgson, A. J., H. Marsh, S. Delean, and L. Marcus. 2007. Is attempting to change marine mammal behaviour a generic solution to the bycatch problem? A dugong case study. <i>Animal Conservation</i> 10:263-273.	49
Hugall, A. F., and M. S. Y. Lee. 2007. The likelihood node density effect and consequences for evolutionary studies of molecular rates. <i>Evolution</i> 61:2293-2307.	50
Hugall, A. F., R. Foster, and M. S. Y. Lee. 2007. Calibration choice, rate smoothing, and the pattern of tetrapod diversification according to the long nuclear gene RAG-1. <i>Systematic Biology</i> 56:543-563.	51
Hugall, A. F., R. Foster, M. N. Hutchinson, and M. S. Y. Lee. 2007. The evolution of Australasian agamid lizards based on nuclear and mitochondrial genes, and the affinities of the thorny devil (<i>Moloch horridus</i>). <i>Biological Journal of the Linnean Society (London)</i> 93:343-358.	52
Hutson, K. S., and D. Tang. 2007. <i>Naricolax hoi</i> n. sp (Cyclopoida : Bomolochidae) from <i>Arius maculatus</i> (Siluriformes : Ariidae) off Taiwan and a redescription of <i>N. chrysophryenus</i> (Roubal, Armitage & Rohde, 1983) from a new host, <i>Seriola lalandi</i> (Perciformes : Carangidae), in Australian waters. <i>Systematic Parasitology</i> 68:97-113.	53
Hutson, K. S., B. P. Smith, R. T. Godfrey, I. D. Whittington, C. B. Chambers, I. Ernst, and B. M. Gillanders. 2007. A tagging study on yellowtail kingfish (<i>Seriola lalandi</i>) and Samson fish (<i>S. hippos</i>) in south Australian waters. <i>Transactions of the Royal Society of South Australia</i> 131:128-134.	54
Hutson, K. S., I. Ernst, A. J. Mooney, and I. D. Whittington. 2007. Metazoan parasite	55

assemblages of wild <i>Seriola lalandi</i> (Carangidae) from eastern and southern Australia. <i>Parasitology International</i> 56:95-105.	
Hutson, K. S., I. Ernst, and I. D. Whittington. 2007. Risk assessment for metazoan parasites of yellowtail kingfish <i>Seriola lalandi</i> (Perciformes : Carangidae) in South Australian sea-cage aquaculture. <i>Aquaculture</i> 271:85-99.	56
Immler, S., H. D. M. Moore, W. G. Breed, and T. R. Birkhead. 2007. By hook or by crook? Morphometry, competition, and cooperation in rodent sperm. <i>Public Library of Science-ONE</i> .	57
Izzo, C., K. Rodda, and T. Bolton. 2007. Incorporation time of oxytetracycline into calcified structures of the elasmobranch <i>Heterodontus portusjacksoni</i> . <i>Journal of Fish Biology</i> 71:1208-1214.	58
Jennings, J. T., A. D. Austin, and N. M. Schiff. 2007. <i>Rhysacephala novacaledonica</i> sp nov (Hymenoptera : Xiphydriidae), the first xiphydriid woodwasp from New Caledonia. <i>Zootaxa</i> :23-30.	59
Joly, S., M. I. Stevens, and B. J. van Vuuren. 2007. Haplotype networks can be misleading in the presence of missing data. <i>Systematic Biology</i> 56:857-862.	60
Kang, M., A. J. Lowe, and Y. Buckley. 2007. Isolation and characterization of polymorphic microsatellite loci for the invasive plant <i>Cytisus scoparius</i> . <i>Molecular Ecology Notes</i> 7:100-102.	61
Kang, M., F. Xu, A. J. Lowe, and H. Huang. 2007. Protecting evolutionary significant units for the remnant populations of <i>Berchemiella wilsonii</i> var. <i>pubipetiolata</i> (Rhamnaceae). <i>Conservation Genetics</i> 8:465-473.	62
Kang, M., Y. M. Buckley, and A. J. Lowe. 2007. Testing the role of genetic factors across multiple independent invasions of the shrub Scotch broom (<i>Cytisus scoparius</i>). <i>Molecular Ecology</i> 16:4662-4673.	63
Kawakami, T., R. K. Butlin, D. J. Paull, and S. J. B. Cooper. 2007. Polymorphic microsatellite markers for chromosomal races of Australian morabine grasshoppers (<i>Vandiemenella</i> , <i>viatica</i> species group). <i>Molecular Ecology Notes</i> 7:1181-1184.	64
Kawakami, T., R. K. Butlin, M. Adams, K. M. Saint, D. J. Paull, and S. J. B. Cooper. 2007. Differential gene flow of mitochondrial and nuclear DNA markers among chromosomal races of Australian morabine grasshoppers (<i>Vandiemenella</i> , <i>viatica</i> species group). <i>Molecular Ecology</i> 16:5044-5056.	65
Kearn, G. C., I. D. Whittington, and R. Evans-Gowing. 2007. Revision of <i>Entobdella</i> Blainville in Lamarck, 1818, with special emphasis on the nominal (type) species " <i>Entobdella hippoglossi</i> (Muller, 1776) Blainville, 1818" (Monogenea : Capsalidae : Entobdellinae) from teleost flatfishes, with descriptions of three new species and a new genus. <i>Zootaxa</i> :1-53.	66
Kellermann, J., and F. Udovicic. 2007. A revision of the <i>Cryptandra propinqua</i> complex (Rhamnaceae : Pomaderreae). <i>Proceedings of the Linnean Society of New South Wales</i> 128:81-98.	67
Kellermann, J., B. L. Rye, and K. R. Thiele. 2007. <i>Blackallia</i> , <i>Serichonus</i> and <i>Papistylus</i> : three closely related genera of Rhamnaceae (Pomaderreae) from south-western Australia. <i>Nuytsia</i> 16:299-316.	68
La Flamme, A. C., M. Harvie, D. Kenwright, K. Cameron, N. J. Rawlence, Y. S. Low, and S. McKenzie. 2007. Chronic exposure to schistosome eggs reduces serum cholesterol but has no effect on arteriosclerotic lesion development. <i>Parasite Immunology</i> 29:259-266.	69
La Torre-Cuadros, M., S. Herrando-Perez, and K. R. Young. 2007. Diversity and structural patterns for tropical montane and premontane forests of central Peru, with an assessment of the use of higher-taxon surrogacy. <i>Biodiversity and Conservation</i> 16:2965-2988.	70
Lackenby, J. A., C. B. Chambers, I. Ernst, and I. D. Whittington. 2007. Effect of water temperature on reproductive development of <i>Benedenia seriola</i> (Monogenea : Capsalidae) from <i>Seriola lalandi</i> in Australia. <i>Diseases of Aquatic Organisms</i> 74:235-242.	71
Lancaster, M. L., C. J. A. Bradshaw, S. D. Goldsworthy, and P. Sunnucks. 2007. Lower reproductive success in hybrid fur seal males indicates fitness costs to hybridization. <i>Molecular Ecology</i> 16:3187-3197.	72
Lancaster, M. L., S. D. Goldsworthy, and P. Sunnucks. 2007. Multiple mating strategies explain unexpected genetic mixing of New Zealand fur seals with two congeners in a recently recolonized population. <i>Molecular Ecology</i> 16:5267-5276.	73

Larson, G., T. Cucchi, M. Fujita, E. Matisoo-Smith, J. Robins, A. Anderson, B. Rolett, M. Spriggs, G. Dolman, T. H. Kim, N. T. D. Thuy, E. Randi, M. Doherty, R. A. Due, R. Bollt, T. Djubiantono, B. Griffin, M. Intoh, E. Keane, P. Kirch, K. T. Li, M. Morwood, L. M. Pedrina, P. J. Piper, R. J. Rabett, P. Shooter, G. Van den Bergh, E. West, S. Wickler, J. Yuan, A. Cooper, and K. Dobney. 2007. Phylogeny and ancient DNA of <i>Sus</i> provides insights into neolithic expansion in island southeast Asia and Oceania. <i>Proc. Natl. Acad. Sci. U. S. A.</i> 104:4834-4839.	74
Larson, G., U. Albarella, K. Dobney, P. Rowley-Conwy, J. Schibler, A. Tresset, J. D. Vigne, C. J. Edwards, A. Schlumbaum, A. Dinu, A. Balacescu, G. Dolman, A. Tagliacozzo, N. Manaseryan, P. Miracle, L. Van Wijngaarden-Bakker, M. Masseti, D. G. Bradley, and A. Cooper. 2007. Ancient DNA, pig domestication, and the spread of the Neolithic into Europe. <i>Proc. Natl. Acad. Sci. U. S. A.</i> 104:15276-15281.	75
Lee, M. S. Y., A. F. Hugall, R. Lawson, and J. D. Scanlon. 2007. Phylogeny of snakes (Serpentes): combining morphological and molecular data in likelihood, Bayesian and parsimony analyses. <i>Systematics and Biodiversity</i> 5:371-389.	76
Lee, M. S. Y., A. F. Hugall, R. Lawson, and J. D. Scanlon. 2007. Snake phylogeny based on multiple morphological and molecular data sets. <i>Systematics and Biodiversity</i> 5:371-389.	77
Lee, M. S. Y., and A. Skinner. 2007. Sense and stability in biological nomenclature. <i>Acta Palaeontologica Polonica</i> 52:643-650.	78
Lee, M. S. Y., and A. Skinner. 2007. Stability, ranks, and the PhyloCode - Discussion. <i>Acta Palaeontologica Polonica</i> 52:643-650.	79
Li, L., J. Li, J. G. Conran, X. W. Li, and H. W. Li. 2007. Phylogeny of Neolitsea (Lauraceae) inferred from Bayesian analysis of nrDNA ITS and ETS sequences. <i>Plant Systematics and Evolution</i> 269:203-221.	80
Lowrie, A., and J. G. Conran. 2007. A revision of the <i>Drosera omissa</i> / <i>D. nitidula</i> complex (Droseraceae) from south-west Western Australia. <i>Taxon</i> 56:533-544.	81
Lowrie, A., and J. G. Conran. 2007. <i>Drosera x sidjamesii</i> (Droseraceae): systematics and ecology of a natural hybrid from Western Australia. <i>Australian Systematic Botany</i> 20:44-53.	82
McDowall, R. M., and M. I. Stevens. 2007. Taxonomic status of the Tairāwhiti bully <i>Gobiomorphus alpinus</i> (Teleostei : Eleotridae), revisited - again. <i>Journal of the Royal Society of New Zealand</i> 37:15-29.	83
McMahon, C. R., C. J. A. Bradshaw, and G. C. Hays. 2007. Satellite tracking reveals unusual diving characteristics for a marine reptile, the olive ridley turtle <i>Lepidochelys olivacea</i> . <i>Marine Ecology-Progress Series</i> 329:239-252.	84
Mellin, C., M. Kulbicki, and D. Ponton. 2007. Seasonal and ontogenetic patterns of habitat use in coral reef fish juveniles. <i>Estuarine Coastal and Shelf Science</i> 75:481-491.	85
Mellin, C., S. Andrefouet, and D. Ponton. 2007. Spatial predictability of juvenile fish species richness and abundance in a coral reef environment. <i>Coral Reefs</i> 26:895-907.	86
Melville, J., S. Goebel, C. Starr, J. S. Keogh, and J. J. Austin. 2007. Conservation genetics and species status of an endangered Australian dragon, <i>Tympanocryptis pinguicolla</i> (Reptilia : Agamidae). <i>Conservation Genetics</i> 8:185-195.	87
Mohammadian, M. A., J. R. Watling, and R. S. Hill. 2007. Do waxy stomatal plugs impact leaf gas exchange in a rain forest gymnosperm <i>Agathis robusta</i> ? <i>General and Applied Plant Physiology</i> 33:203-220.	88
Mohammadian, M. A., J. R. Watling, and R. S. Hill. 2007. The impact of epicuticular wax on gas-exchange and photoinhibition in <i>Leucadendron lanigerum</i> (Proteaceae). <i>Acta Oecologica-International Journal of Ecology</i> 31:93-101.	89
Moulds, T. A., N. Murphy, M. Adams, T. Reardon, M. S. Harvey, J. Jennings, and A. D. Austin. 2007. Phylogeography of cave pseudoscorpions in southern Australia. <i>Journal of Biogeography</i> 34:951-962.	90
Murphy, N. P., D. Carey, L. R. Castro, M. Dowton, and A. D. Austin. 2007. Phylogeny of the platygastroid wasps (Hymenoptera) based on sequences from the 18S rRNA, 28S rRNA and cytochrome oxidase I genes: implications for the evolution of the ovipositor system and host relationships. <i>Biological Journal of the Linnean Society</i> 91:653-669.	91
Nicholls, J. A., J. J. Austin, D. C. Pavlacky, and D. J. Green. 2007. Characterization of polymorphic microsatellites in the logrunner, <i>Orthonyx temminckii</i> (Aves : Orthonychidae).	92

Molecular Ecology Notes 7:1117-1119.	
Nolan, L., I. D. Hogg, D. L. Sutherland, M. I. Stevens, and K. E. Schnabel. 2007. Allozyme and mitochondrial DNA variability within the New Zealand damselfly genera <i>Xanthocnemis</i> , <i>Austrolestes</i> , and <i>Ischnura</i> (Odonata). <i>New Zealand Journal of Zoology</i> 34:371-380.	93
Oliver, P. M., M. N. Hutchinson, and S. J. B. Cooper. 2007. Phylogenetic relationships in the lizard genus <i>diplodactylus</i> gray and resurrection of <i>Lucasium wermuth</i> (Gekkota, <i>diplodactylidae</i>). <i>Australian Journal of Zoology</i> 55:197-210.	94
Oliver, P., A. Hugall, M. Adams, S. J. B. Cooper, and M. Hutchinson. 2007. Genetic elucidation of cryptic and ancient diversity in a group of Australian <i>diplodactylus</i> geckos: The <i>Diplodactylus vittatus</i> complex. <i>Molecular Phylogenetics and Evolution</i> 44:77-88.	95
Pandit, M. K., N. S. Sodhi, L. P. Koh, A. Bhaskar, and B. W. Brook. 2007. Unreported yet massive deforestation driving loss of endemic biodiversity in Indian Himalaya. <i>Biodiversity and Conservation</i> 16:153-163.	96
Parnell, J. A. N., L. A. Craven, and E. Biffin. 2007. Matters of scale: Dealing with one of the largest genera of angiosperms. <i>Reconstructing the Tree of Life: Taxonomy and Systematics of Species Rich Taxa</i> 72:251-273.	97
Potter, S., S. Orgeig, S. Donnellan, and C. B. Daniels. 2007. Purifying selection drives the evolution of surfactant protein C (SP-C) independently of body temperature regulation in mammals. <i>Comparative Biochemistry and Physiology D-Genomics & Proteomics</i> 2:165-176.	98
Prentis, P. J., and P. B. Mather. 2007. Micro-geographic landscape features demarcate seedling genetic structure in the stream lily, <i>Helmholtzia glaberrima</i> . <i>Aquatic Botany</i> 87:111-115.	99
Prentis, P. J., E. M. White, I. J. Radford, A. J. Lowe, and A. R. Clarke. 2007. Can hybridization cause local extinction: a case for demographic swamping of the Australian native <i>Senecio pinnatifolius</i> by the invasive <i>Senecio madagascariensis</i> ? <i>New Phytologist</i> 176:902-912.	100
Prideaux, G. J., J. A. Long, L. K. Ayliffe, J. C. Hellstrom, B. Pillans, W. E. Boles, M. N. Hutchinson, R. G. Roberts, M. L. Cupper, L. J. Arnold, P. D. Devine, and N. M. Warburton. 2007. An arid-adapted middle Pleistocene vertebrate fauna from south-central Australia. <i>Nature</i> 445:422-425.	101
Prior, L. D., D. Bowman, and B. W. Brook. 2007. Growth and survival of two north Australian relictual tree species, <i>Allosyncarpia ternata</i> (Myrtaceae) and <i>Callitris intratropica</i> (Cupressaceae). <i>Ecological Research</i> 22:228-236.	102
Rabosky, D. L., S. C. Donnellan, A. L. Talaba, and I. J. Lovette. 2007. Exceptional among lineage variation in diversification rates during the radiation of Australia's most diverse vertebrate clade. <i>Proceedings of the Royal Society of London Series B</i> 274:2915-2923.	103
Rudall, P. J., D. D. Sokoloff, M. V. Remizowa, J. G. Conran, J. I. Davis, T. D. Macfarlane, and D. W. Stevenson. 2007. Morphology of Hydatellaceae, an anomalous aquatic family recently recognized as an early-divergent angiosperm lineage. <i>American Journal of Botany</i> 94:1073-1092.	104
Sanders, K. L., and M. S. Y. Lee. 2007. Evaluating molecular clock calibrations using Bayesian analyses with soft and hard bounds. <i>Biology Letters</i> 3:275-279.	105
Skinner, A. 2007. Phylogenetic relationships and rate of early diversification of Australian <i>Sphenomorphus</i> group scincids (Scincoidea, Squamata). <i>Biological Journal of the Linnean Society</i> 92:347-366.	106
Sleeman, J. C., M. G. Meekan, S. G. Wilson, C. K. S. Jenner, M. N. Jenner, G. S. Boggs, C. C. Steinberg, and C. J. A. Bradshaw. 2007. Biophysical correlates of relative abundances of marine megafauna at Ningaloo Reef, Western Australia. <i>Marine and Freshwater Research</i> 58:608-623.	107
Smith, J. G., B. Brook, A. D. Griffiths, and G. G. Thompson. 2007. Using morphometrics and information theory to predict gender in varanids. <i>Journal of Herpetology</i> 41:133-140.	108
Souter, N. J., C. M. Bull, M. R. Lethbridge, and M. N. Hutchinson. 2007. Habitat requirements of the endangered pygmy bluetongue lizard, <i>Tiliqua adelaidensis</i> . <i>Biological Conservation</i> 135:33-45.	109
Stevens, M. I., D. J. Winter, R. Morris, J. McCartney, and P. Greenslade. 2007. New Zealand's giant Collembola: new information on distribution and morphology for <i>Holacanthella</i> Börner, 1906 (Neanuridae : Uchidanurinae). <i>New Zealand Journal of Zoology</i> 34:63-78.	110
Stevens, M. I., F. Frati, A. McGaughan, G. Spinsanti, and I. D. Hogg. 2007. Phylogeographic structure suggests multiple glacial refugia in northern Victoria Land for the endemic Antarctic	111

springtail <i>Desoria klovstadi</i> (Collembola, Isotomidae). <i>Zoologica Scripta</i> 36:201-212.	
Stevens, M. I., J. McCartney, and I. A. N. Stringer. 2007. New Zealand's forgotten biodiversity: new techniques reveal new records for 'giant' springtails. <i>New Zealand Entomologist</i> 30:79-84.	112
Stevens, M. I., K. Hogendoorn, and M. P. Schwarz. 2007. Evolution of sociality by natural selection on variances in reproductive fitness: evidence from a social bee. <i>BMC Evolutionary Biology</i> 7:(29 August 2007).	113
Stevens, M. I., S. A. Hunger, S. F. K. Hills, and C. E. C. Gemmill. 2007. Phantom hitch-hikers mislead estimates of genetic variation in Antarctic mosses. <i>Plant Systematics and Evolution</i> 263:191-201.	114
Stevens, N. B., and A. D. Austin. 2007. Systematics, distribution and biology of the Australian 'micro-flea' wasps, <i>Baeus</i> spp. (Hymenoptera : Scelionidae): parasitoids of spider eggs. <i>Zootaxa</i> :1-45.	115
Swann, C. A., S. J. B. Cooper, R. M. Hope, and W. G. Breed. 2007. Evolution of the carboxy terminal region of the zona pellucida 3 (ZP3) glycoprotein in murine rodents. <i>Reproduction</i> 133:697-708.	116
Taylor, G., K. Davies, N. Martin, and T. Crosby. 2007. First record of fergusonina (Diptera : Fergusoninidae) and associated fergusobia (Tylenchida : Neotylenchidae) forming galls on <i>metrosideros</i> (Myrtaceae) from New Zealand. <i>Systematic Entomology</i> 32:548-557.	117
Traill, L. W., and R. C. Bigalke. 2007. A presence-only habitat suitability model for large grazing African ungulates and its utility for wildlife management. <i>African Journal of Ecology</i> 45:347-354.	118
Traill, L. W., C. J. A. Bradshaw, and B. W. Brook. 2007. Minimum viable population size: A meta-analysis of 30 years of published estimates. <i>Biological Conservation</i> 139:159-166.	119
van den Heuvel, M. R., C. Michel, M. I. Stevens, A. C. Clarke, K. N. Stölting, B. J. Hicks, and L. A. Tremblay. 2007. Monitoring the effects of pulp and paper effluent is restricted in genetically distinct populations of common bully (<i>Gobiomorphus cotidianus</i>). <i>Environmental Science and Technology</i> 41:2602-2608.	120
Wall, S. M., C. J. A. Bradshaw, C. J. Southwell, N. J. Gales, and M. A. Hindell. 2007. Crabeater seal diving behaviour in eastern Antarctica. <i>Marine Ecology-Progress Series</i> 337:265-277.	121
Wells, J. A., M. G. Gardner, and A. J. Lowe. 2007. Development of eight polymorphic microsatellites for an Australasian rainforest tree species, <i>Cryptocarya mackinnoniana</i> (Lauraceae). <i>Molecular Ecology Notes</i> 7:981-983.	122
Wheatley, K. E., P. D. Nichols, M. A. Hindell, R. G. Harcourt, and C. J. A. Bradshaw. 2007. Temporal variation in the vertical stratification of blubber fatty acids alters diet predictions for lactating Weddell seals. <i>Journal of Experimental Marine Biology and Ecology</i> 352:103-113.	123
Wheaton, L., S. C. Donnellan, M. C. De, M. G. Gardner, and B. M. Gillanders. 2007. Isolation of additional polymorphic tri- and tetranucleotide microsatellite loci for the giant Australian cuttlefish (<i>Sepia apama</i>). <i>Molecular Ecology Notes</i> 7:893-895.	124
Williams, R. E., I. Ernst, C. B. Chambers, and I. D. Whittington. 2007. Efficacy of orally administered praziquantel against <i>Zeuxapta seriolae</i> and <i>Benedenia seriolae</i> (Monogenea) in yellowtail kingfish <i>Seriola lalandi</i> . <i>Diseases of Aquatic Organisms</i> 77:199-205.	125
Ye, W., R. M. Giblin-Davis, K. A. Davies, M. F. Purcell, S. J. Scheffer, G. S. Taylor, T. D. Center, K. Morris, and W. K. Thomas. 2007. Molecular phylogenetics and the evolution of host plant associations in the nematode genus <i>Fergusobia</i> (Tylenchida : Fergusobiinae). <i>Molecular Phylogenetics and Evolution</i> 45:123-141.	126
Yi, Y. J., G. Manandhar, R. J. Oko, W. G. Breed, and P. Sutovsky. 2007. Mechanism of sperm-zona pellucida penetration during mammalian fertilization: 26S proteasome as a candidate egg coat lysine. <i>Society of Reproduction and Fertility Supplement</i> 63:385-408.	127
Yu, F. L., R. S. Hill, S. F. Schaffner, P. C. Sabeti, E. T. Wang, A. A. Mignault, R. J. Ferland, R. K. Moyzis, C. A. Walsh, and D. Reich. 2007. Comment on "Ongoing adaptive evolution of ASPM, a brain size determinant in <i>Homo sapiens</i> ". <i>Science</i> 316.	128

Summary of 2007 publications

ERA Journal Rank	Count
A*	16
A	38
B	34
C	35
NOT RANKED	5
TOTAL	128

Peer-Reviewed Journal Articles – 2008

Citation	#
Allford, A., S. J. B. Cooper, W. F. Humphreys, and A. D. Austin. 2008. Diversity and distribution of groundwater fauna in a calcrete aquifer: does sampling method influence the story? <i>Invertebrate Systematics</i> 22:127-138.	1
Aplin, K., S. C. Donnellan, and J. Dell. 2008. The herpetofauna of Faure Island, Shark Bay, Western Australia. <i>Records of the Western Australian Museum Supplement</i> 75:39-54.	2
Ashton, G. V., M. I. Stevens, M. C. Hart, D. H. Green, M. T. Burrows, E. J. Cook, and K. J. Willis. 2008. Mitochondrial DNA reveals multiple Northern Hemisphere introductions of <i>Caprella mutica</i> (Crustacea, Amphipoda). <i>Molecular Ecology</i> 17:1293-1303.	3
Austin, A. D., S. J. B. Cooper, and W. F. Humphreys. 2008. Preface to Special Issue on Subterranean Connections: biology and evolution in troglobiontic and groundwater ecosystems. <i>Invertebrate Systematics</i> 22:III.	4
Bauer, M., and W. G. Breed. 2008. Testis mass of the spinifex hopping mouse and its impact on fertility potential. <i>Journal of Zoology</i> 274:349-356.	5
Bickford, D., T. M. Lee, L. P. Koh, N. S. Sodhi, A. C. Diesmos, B. Brook, C. H. Sekercioglu, and C. J. A. Bradshaw. 2008. Forgetting habitat loss in amphibian extinctions – missing the forest for the disease. <i>PLoS Biology</i> 6.	6
Blackett, M. J., C. Kemper, and R. Brandle. 2008. Planigales (Marsupialia : Dasyuridae) of eastern Australia's interior: a comparison of morphology, distributions and habitat preferences, with particular emphasis on South Australia. <i>Australian Journal of Zoology</i> 56:195-205.	7
Boon, W. M., O. Robinet, N. J. Rawlence, V. Bretagnolle, J. A. Norman, L. Christidis, and G. K. Chambers. 2008. Morphological, behavioural and genetic differentiation within the Horned Parakeet (<i>Eunymphicus cornutus</i>) and its affinities to <i>Cyanoramphus</i> and <i>Prosopieia</i> . <i>Emu</i> 108:251-260.	8
Bradshaw, C. J. A. 2008. Having your water and drinking it too: resource limitation modifies density regulation. <i>Journal of Animal Ecology</i> 77:1-4.	9
Bradshaw, C. J. A., B. M. Fitzpatrick, C. C. Steinberg, B. W. Brook, and M. G. Meekan. 2008. Decline in whale shark size and abundance at Ningaloo Reef over the past decade: The world's largest fish is getting smaller. <i>Biological Conservation</i> 141:1894-1905.	10
Bradshaw, C. J. A., X. L. Giam, H. T. W. Tan, B. W. Brook, and N. S. Sodhi. 2008. Threat or invasive status in legumes is related to opposite extremes of the same ecological and life-history attributes. <i>Journal of Ecology</i> 96:869-883.	11
Braundmeier, A. G., W. G. Breed, and D. J. Miller. 2008. Spermatozoa from a marsupial, the brushtail possum, contain beta 1,4-galactosyltransferase. <i>Reproduction Fertility and Development</i> 20:402-407.	12
Broadhurst, L. M., A. Lowe, D. J. Coates, S. A. Cunningham, M. McDonald, P. A. Vesk, and C. Yates. 2008. Seed supply for broadscale restoration: maximising evolutionary potential. <i>Evolutionary Applications</i> 1:587-597.	13
Brook, B. 2008. The allure of the few. <i>PLoS Biology</i> 6.	14
Brook, B. W. 2008. Synergies between climate change, extinctions and invasive vertebrates. <i>Wildlife Research</i> 35:249-252.	15
Brook, B. W., N. S. Sodhi, and C. J. A. Bradshaw. 2008. Synergies among extinction drivers under global change. <i>Trends in Ecology & Evolution</i> 23:453-460.	16
Burns, J. M., M. A. Hindell, C. J. A. Bradshaw, and D. P. Costa. 2008. Fine-scale habitat selection of crabeater seals as determined by diving behavior. <i>Deep-Sea Research Part II-Topical Studies in Oceanography</i> 55:500-514.	17
Byrne, M., D. K. Yeates, L. Joseph, M. Kearney, J. Bowler, M. A. J. Williams, S. Cooper, S. C. Donnellan, J. S. Keogh, R. Leys, J. Melville, D. J. Murphy, N. Porch, and K. H. Wyrwoll. 2008. Birth of a biome: insights into the assembly and maintenance of the Australian arid zone biota. <i>Molecular Ecology</i> 17:4398-4417.	18

Cameron, S. L., M. Dowton, L. R. Castro, K. Ruberu, M. F. Whiting, A. D. Austin, K. Diement, and J. Stevens. 2008. Mitochondrial genome organization and phylogeny of two vespidae wasps. <i>Genome</i> 51:800-808.	19
Chapple, D. G., M. N. Hutchinson, B. Maryan, M. Plivelich, J. A. Moore, and J. S. Keogh. 2008. Evolution and maintenance of colour pattern polymorphism in <i>Liopholis</i> (Squamata : Scincidae). <i>Australian Journal of Zoology</i> 56:103-115.	20
Clements, R., P. K. L. Ng, X. X. Lu, S. Ambu, M. Schilthuizen, and C. J. A. Bradshaw. 2008. Using biogeographical patterns of endemic land snails to improve conservation planning for limestone karsts. <i>Biological Conservation</i> 141:2751-2764.	21
Coleman, M. A., G. Dolman, B. P. Kelaher, and P. D. Steinberg. 2008. Characterisation of microsatellite loci in the subtidal habitat-forming alga, <i>Phyllospora comosa</i> (Phaeophyceae, Fucales). <i>Conservation Genetics</i> 9:1015-1017.	22
Conran, J. G. 2008. Aestivation organ structure in <i>Drosera</i> subgen. <i>Ergaleium</i> (Droseraceae): corms or tubers; roots or shoots? <i>Australian Journal of Botany</i> 56:144-152.	23
Conran, J. G., P. I. Forster, and M. Donnon. 2008. <i>Romnaldia ophiopogonoides</i> (Asparagales: Laxmanniaceae), a new and endangered species from the Wet Tropics bioregion of north-east Queensland. <i>Telopea</i> 12:167-178.	24
Convey, P., J. A. E. Gibson, C. D. Hillenbrand, D. A. Hodgson, P. J. A. Pugh, J. L. Smellie, and M. I. Stevens. 2008. Antarctic terrestrial life - challenging the history of the frozen continent? <i>Biological Reviews</i> 83:103-117.	25
Cooper, S. J. B., K. M. Saint, S. Taiti, A. D. Austin, and W. F. Humphreys. 2008. Subterranean archipelago: mitochondrial DNA phylogeography of stygobitic isopods (Oniscidea : Haloniscus) from the Yilgarn region of Western Australia. <i>Invertebrate Systematics</i> 22:195-203.	26
da Silva, J. 2008. Simulation of HIV-1 molecular evolution in response to chemokine coreceptors and antibodies. <i>Immunoinformatics</i> :161-178.	27
del Monte-Luna, P., D. Lluch-Belda, R. Carmona, H. Reyes-Bonilla, J. L. Castro-Aguirre, E. Serviere-Zaragoza, D. Auriol-Gamboa, S. A. G. del Proo, O. Trujillo-Millan, J. F. Elorduy-Garay, and B. W. Brook. 2008. Extinctions in the sea: Myths and realities. <i>Interciencia</i> 33:74-80.	28
Dolman, G. 2008. Evidence for differential assortative female preference in association with refugial isolation of rainbow skinks in Australia's tropical rainforests. <i>PLOSone</i> 3:e3499.	29
Dolman, G., and A. F. Hugall. 2008. Combined mitochondrial and nuclear data enhance resolution of a rapid radiation of Australian rainbow skinks (Scincidae: <i>Carlia</i>). <i>Molecular Phylogenetics and Evolution</i> 49:782-794.	30
Dudaniec, R. Y., M. G. Gardner, and S. Kleindorfer. 2008. Isolation, characterization and multiplex polymerase chain reaction of novel microsatellite loci for the avian parasite <i>Philornis downsi</i> (Diptera : Muscidae). <i>Molecular Ecology Resources</i> 8:142-144.	31
Dudaniec, R. Y., M. G. Gardner, S. Donnellan, and S. Kleindorfer. 2008. Genetic variation in the invasive avian parasite, <i>Philornis downsi</i> (Diptera, Muscidae) on the Galapagos archipelago. <i>BMC Ecology</i> 8:(31 July 2008).	32
Emslie, M. J., A. J. Cheal, H. Sweatman, and S. Delean. 2008. Recovery from disturbance of coral and reef fish communities on the Great Barrier Reef, Australia. <i>Marine Ecology-Progress Series</i> 371:177-190.	33
Fenner, A. L., C. M. Bull, and M. N. Hutchinson. 2008. Injuries to lizards: conservation implications for the endangered pygmy bluetongue lizard (<i>Tiliqua adelaidensis</i>). <i>Wildlife Research</i> 35:158-161.	34
Fordham, D. A., A. Georges, and B. W. Brook. 2008. Indigenous harvest, exotic pig predation and local persistence of a long-lived vertebrate: managing a tropical freshwater turtle for sustainability and conservation. <i>Journal of Applied Ecology</i> 45:52-62.	35
Franklin, D. C., A. M. Petty, G. J. Williamson, B. W. Brook, and D. Bowman. 2008. Monitoring contrasting land management in the savanna landscapes of northern Australia. <i>Environmental Management</i> 41:501-515.	36
Gardner, M. G., A. F. Hugall, S. C. Donnellan, M. N. Hutchinson, and R. Foster. 2008. Molecular systematics of social skinks: phylogeny and taxonomy of the <i>Egernia</i> group (Reptilia: Scincidae). <i>Zoological Journal of the Linnean Society</i> 154:781-794.	37

Gardner, M. G., J. J. Sanchez, R. Y. Dudaniec, L. Rheinberger, A. L. Smith, and K. M. Saint. 2008. <i>Tiliqua rugosa</i> microsatellites: isolation via enrichment and characterisation of loci for multiplex PCR in <i>T. rugosa</i> and the endangered <i>T. adelaidensis</i> . <i>Conservation Genetics</i> 9:233-237.	38
Glennon, V., E. M. Perkins, L. A. Chisholm, and I. D. Whittington. 2008. Comparative phylogeography reveals host generalists, specialists and cryptic diversity: Hexabothriid, microbothriid and monocotylid monogeneans from rhinobatid rays in southern Australia. <i>International Journal for Parasitology</i> 38:1599-1612.	39
Gongora, J., N. J. Rawlence, V. A. Mobegi, H. Jianlin, J. A. Alcalde, J. T. Matus, O. Hanotte, C. Moran, J. J. Austin, S. Ulm, A. J. Anderson, G. Larson, and A. Cooper. 2008. Indo-European and Asian origins for Chilean and Pacific chickens revealed by mtDNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> 105:10308-10313.	40
Gongora, J., N. J. Rawlence, V. A. Mobegi, H. Jianlin, J. A. Alcalde, J. T. Matus, O. Hanotte, C. Moran, J. J. Austin, S. Ulm, A. J. Anderson, G. Larson, and A. Cooper. 2008. Reply to Storey et al.: More DNA and dating studies needed for ancient El Arenal-1 chickens. <i>Proceedings of the National Academy of Sciences of the United States of America</i> 105:E100-E100.	41
Gotch, T. B., M. Adams, N. P. Murphy, and A. D. Austin. 2008. A molecular systematic overview of wolf spiders associated with Great Artesian Basin springs in South Australia: evolutionary affinities and an assessment of metapopulation structure in two species. <i>Invertebrate Systematics</i> 22:151-165.	42
Greenslade, P., B. A. Melbourne, K. F. Davies, and M. I. Stevens. 2008. The status of two exotic terrestrial Crustacea on sub-Antarctic Macquarie Island. <i>Polar Record</i> 44:15-23.	43
Gurgel, C. F. D., S. Fredericq, J. N. Norris, and Y. Yoneshigue-Valentin. 2008. Two new flat species of <i>Gracilaria</i> (Gracilariales, Rhodophyta) from Brazil: <i>G. abyssalis</i> sp nov and <i>G. brasiliensis</i> sp nov. <i>Phycologia</i> 47:249-264.	44
Guzik, M. T., K. M. Abrams, S. J. B. Cooper, W. F. Humphreys, J. L. Cho, and A. D. Austin. 2008. Phylogeography of the ancient Parabathynellidae (Crustacea : Bathynellacea) from the Yilgarn region of western Australia. <i>Invertebrate Systematics</i> 22:205-216.	45
Guzinski, J., K. M. Saint, M. G. Gardner, S. C. Donnellan, and C. M. Bull. 2008. Development of microsatellite markers and analysis of their inheritance in the Australian reptile tick, <i>Bothriocroton hydrosauri</i> . <i>Molecular Ecology Resources</i> 8:443-445.	46
Hamel, M. A., C. R. McMahon, and C. J. A. Bradshaw. 2008. Flexible inter-nesting behaviour of generalist olive ridley turtles in Australia. <i>Journal of Experimental Marine Biology and Ecology</i> 359:47-54.	47
Harris, J. B. C., D. Tirira, P. Álvarez, and V. Mendoza. 2008. Altitudinal range extension for <i>Cebus albifrons</i> (Primates: Cebidae) in southern Ecuador. <i>Neotropical Primates</i> 15:22-24.	48
Harris, J. B. C., R. L. Carpio, M. K. Chambers, and H. F. Greeney. 2008. Altitudinal and geographical range extension for Bicoloured Antvireo <i>Dysithamnus occidentalis punctitectus</i> in south-east Ecuador, with notes on its nesting ecology. <i>Cotinga</i> 30:63-65.	49
Herrando-Perez, S., M. Baratti, and G. Messana. 2008. Subterranean ecological research and multivariate statistics: a review (1945-2006). <i>Journal of Cave and Karst Studies</i> 70:120-128.	50
Hill, R., T. Lewis, R. Carpenter, and S. Whang. 2008. <i>Agathis</i> (Araucariaceae) macrofossils from Cainozoic sediments in south-eastern Australia. <i>Australian Systematic Botany</i> 21:162-177.	51
Hugall, A. F., R. Foster, M. Hutchinson, and M. S. Y. Lee. 2008. Phylogeny of Australasian agamid lizards based on nuclear and mitochondrial genes: implications for morphological evolution and biogeography. <i>Biological Journal of the Linnean Society</i> 93:343-358.	52
Izzo, C., and B. M. Gillanders. 2008. Initial assessment of age, growth and reproductive parameters of the rhinobatid <i>Trygonorrhina fasciata</i> (Muller and Henle 1841) from South Australia. <i>Pan-American Journal of Aquatic Sciences</i> 3:321-327.	53
Jackway, R. J., T. L. Pukala, V. M. Maselli, I. F. Musgrave, J. H. Bowie, Y. Liu, K. H. Surinya-Johnson, S. C. Donnellan, J. R. Doyle, L. E. Llewellyn, and M. J. Tyler. 2008. Disulfide-containing peptides from the glandular skin secretions of froglets of the genus <i>Crinia</i> : Structure, activity and evolutionary trends. <i>Regulatory Peptides</i> 151:80-87.	54
Jordan, G., P. Weston, R. Carpenter, R. Dillon, and T. Brodribb. 2008. The evolutionary relations of sunken, covered, and encrypted stomata to dry habitats in Proteaceae. <i>American Journal of</i>	55

Botany 95:521-530.

Joseph, L., G. Dolman, S. Donnellan, K. M. Saint, M. L. Berg, and A. T. D. Bennett. 2008. Where and when does a ring start and end? Testing the ring-species hypothesis in a species complex of Australian parrots. <i>Proceedings of the Royal Society B-Biological Sciences</i> 275:2431-2440.	56
Kang, M., H. W. Huang, M. X. Jiang, and A. J. Lowe. 2008. Understanding population structure and historical demography in a conservation context: population genetics of an endangered fern. <i>Diversity and Distributions</i> 14:799-807.	57
Kasper, M. L., A. F. Reeson, and A. D. Austin. 2008. Colony characteristics of <i>Vespula germanica</i> (F.) (Hymenoptera, Vespidae) in a Mediterranean climate (southern Australia). <i>Australian Journal of Entomology</i> 47:265-274.	58
Kasper, M. L., A. F. Reeson, D. A. Mackay, and A. D. Austin. 2008. Environmental factors influencing daily foraging activity of <i>Vespula germanica</i> (Hymenoptera, Vespidae) in Mediterranean Australia. <i>Insectes Sociaux</i> 55:288-295.	59
Kellermann, J., and B. L. Rye. 2008. Typification of three species of <i>Cryptandra</i> from Western Australia and a range extension for <i>C-myriantha</i> (Rhamnaceae: Pomaderreae). <i>Journal of the Adelaide Botanic Gardens</i> 22:31-32.	60
Kellermann, J., and F. Udovicic. 2008. Large indels obscure phylogeny in analysis of cpDNA (trnL-F) sequence data: Pomaderreae (Rhamnaceae) revisited. <i>Telopea</i> 12:1-22.	61
Kellermann, J., and K. R. Thiele. 2008. Lectotypifications and nomenclatural notes on Rhamnaceae from northern Australia. <i>Journal of the Adelaide Botanic Gardens</i> 22:33-35.	62
Kellermann, J., B. L. Rye, and K. R. Thiele. 2008. Nomenclatural Notes, Typifications and Name Changes in <i>Trymalium</i> (Rhamnaceae: Pomaderreae). <i>Transactions of the Royal Society of South Australia</i> 132:18-28.	63
Kitalong, A. H., R. A. DeMeo, T. Holm, C. Costion, D. Lorence, and T. Flynn. 2008. Provisional Checklist of Vascular Plants in Palau. <i>Native Trees of Palau</i> :196-226.	64
Koehn, J., S. Nicol, J. McKenzie, J. Lieschke, J. Lyon, and K. Pomorin. 2008. Spatial ecology of an endangered native Australian Percichthyid fish, the trout cod <i>Maccullochella macquariensis</i> . <i>Endangered Species Research</i> 4:219-225.	65
Krause, J., T. Unger, A. Nocon, A.-S. Malaspinas, M. Stiller, S.-O. Kolokotronis, L. Soibelzon, H. Spriggs, P. H. Dear, Adrian W. Briggs, S. C. E. Bray, S. O'Brien, G. Rabeder, Paul Matheus, A. Cooper, M. Slatkin, S. Paabo, and M. Hofreiter. 2008. Mitochondrial genomes reveal an explosive radiation of extinct and extant bears near the Miocene-Pliocene boundary. <i>BMC Evolutionary Biology</i> 8:220.	66
Krogmann, L., M. C. Day, and A. D. Austin. 2008. A new spider wasp from Western Australia, with a description of the first known male of the genus <i>Eremocurgus</i> (Hymenoptera: Pompilidae). <i>Records of the Western Australian Museum</i> 24:437-441.	67
Kupriyanova, E. K., R. Bastida-Zavala, M. N. Halt, M. S. Y. Lee, and G. W. Rouse. 2008. Phylogeny of the <i>Serpula-Crucigera-Hydroides</i> clade (Serpulidae:Annelida) using molecular and morphological data: implications for operculum evolution. <i>Invertebrate Systematics</i> 22:425-437.	68
Lee, M. S. Y., and A. Skinner. 2008. Hierarchy and clade definitions in Phylogenetic taxonomy. <i>Organisms Diversity & Evolution</i> 8:17-20.	69
Li, J., J. G. Conran, D. C. Chrostophel, Z. M. Li, L. Li, and H. W. Li. 2008. Phylogenetic Relationships of the <i>Litsea</i> Complex Core Laureae (Lauraceae) Using Its and Ets Sequences and Morphology. <i>Annals of the Missouri Botanical Garden</i> 95:580-599.	70
Lowrie, A., and J. G. Conran. 2008. A review of <i>Drosera whittakeri</i> s. lat. (Droseraceae) and description of a new species from Kangaroo Island, South Australia. <i>Telopea</i> 12:147-165.	71
Lowrie, A., and J. G. Conran. 2008. <i>Byblis guehoi</i> (Byblidaceae), a new species from the Kimberley, Western Australia. <i>Telopea</i> 12:23-29.	72
Lowrie, A., I. D. Cowie, and J. G. Conran. 2008. A new species and section of <i>Utricularia</i> (Lentibulariaceae) from northern Australia. <i>Telopea</i> 12:31-46.	73
Luja, V. H., S. Herrando-Perez, D. Gonzalez-Solis, and L. Luiselli. 2008. Secondary Rain Forests are not Havens for Reptile Species in Tropical Mexico. <i>Biotropica</i> 40:747-757.	74
Lyon, J., and J. O'Connor. 2008. Smoke on the water: can riverine fish populations recover	75

following a catastrophic fire-related sediment slug? <i>Austral Ecology</i> 33:794-806.	
Lyon, J., T. Ryan, and M. Scroggie. 2008. Effects of temperature on the fast-start swimming performance of an Australian freshwater fish. <i>Ecology of Freshwater Fish</i> 17:184-188.	76
McGaughran, A., I. D. Hogg, and M. I. Stevens. 2008. Patterns of population genetic structure for springtails and mites in southern Victoria Land, Antarctica. <i>Molecular Phylogenetics and Evolution</i> 46:606-618.	77
McLoughlin, S., R. J. Carpenter, G. J. Jordan, and R. S. Hill. 2008. Seed ferns survived the end-cretaceous mass extinction in Tasmania. <i>American Journal of Botany</i> 95:465-471.	78
McMahon, C. R., I. C. Field, C. J. A. Bradshaw, G. C. White, and M. A. Hindell. 2008. Tracking and data-logging devices attached to elephant seals do not affect individual mass gain or survival. <i>Journal of Experimental Marine Biology and Ecology</i> 360:71-77.	79
McMahon, C. R., I. C. Field, M. A. Hindell, S. C. De Little, and C. J. A. Bradshaw. 2008. Guarding against oversimplifying the fundamental drivers of southern elephant seal population dynamics. <i>Journal of Biogeography</i> 35:1738-1740.	80
Mellin, C., J. Ferraris, R. Galzin, M. Harmelin-Vivien, M. Kulbicki, and T. L. de Loma. 2008. Natural and anthropogenic influences on the diversity structure of reef fish communities in the Tuamotu Archipelago (French Polynesia). <i>Ecological Modelling</i> 218:182-187.	81
Michel, C., B. J. Hicks, K. N. Stolting, A. C. Clarke, M. I. Stevens, R. Tana, A. Meyer, and M. R. van den Heuvel. 2008. Distinct migratory and non-migratory ecotypes of an endemic New Zealand eleotrid (<i>Gobiomorphus cotidianus</i>) - implications for incipient speciation in island freshwater fish species. <i>Bmc Evolutionary Biology</i> 8.	82
Minardi, D., G. Paladini, I. Whittington, and M. Fioravanti. 2008. Studio tassonomico di monogenei Capsalidae, parassiti di teleostei ed elasmobranchi in cattività. [= Taxonomic study on Capsalidae (Monogenea), parasites of teleosts and elasmobranchs held in captivity]. <i>Ittiopatologia</i> 5: 171-178.	83
Mooney, A. J., I. Ernst, and I. D. Whittington. 2008. Egg-laying patterns and in vivo egg production in the monogenean parasites <i>Heteraxine heterocerca</i> and <i>Benedenia seriolae</i> from Japanese yellowtail <i>Seriola quinqueradiata</i> . <i>Parasitology</i> 135:1295-1302.	84
Munemasa, M., M. Nikaido, H. Nishihara, S. Donnellan, C. C. Austin, and N. Okada. 2008. Newly discovered young CORE-SINEs in marsupial genomes. <i>Gene</i> 407:176-185.	85
Murphy, N., J. C. Banks, J. B. Whitfield, and A. D. Austin. 2008. Phylogeny of the parasitic microgastroid subfamilies (Hymenoptera : Braconidae) based on sequence data from seven genes, with an improved time estimate of the origin of the lineage. <i>Molecular Phylogenetics and Evolution</i> 47:378-395.	86
Noske, R. A., S. Fischer, and B. W. Brook. 2008. Artificial nest predation rates vary among habitats in the Australian monsoon tropics. <i>Ecological Research</i> 23:519-527.	87
O'Grady, J. J., D. H. Reed, B. W. Brook, and R. Frankham. 2008. Extinction risk scales better to generations than to years. <i>Animal Conservation</i> 11:442-451.	88
Patel, V. S., S. J. B. Cooper, J. E. Deakin, B. Fulton, T. Graves, W. C. Warren, R. K. Wilson, and J. A. M. Graves. 2008. Platypus globin genes and flanking markers suggest a new insertional model for b-globin evolution in birds and mammals. <i>BMC Biology</i> 6:34.	89
Paull, R., and R. S. Hill. 2008. Oligocene <i>Austrocedrus</i> from Tasmania (Australia): Comparisons with <i>Austrocedrus chilensis</i> . <i>International Journal of Plant Sciences</i> 169:315-330.	90
Pestell, A. J. L., S. J. B. Cooper, K. M. Saint, and S. Petit. 2008. Genetic structure of the western pygmy possum, <i>Cercartetus concinnus</i> Gould (Marsupialia: Burramyidae), of southern Australia. <i>Australian Mammalogy</i> 29:191-200.	91
Prentis, P. J., and P. B. Mather. 2008. Fine-scale patterns of genetic variation indicate non-equilibrium gene frequency divergence in the stream lily, <i>Helmholtzia glaberrima</i> . <i>Freshwater Biology</i> 53:973-980.	92
Prentis, P. J., J. R. U. Wilson, E. E. Dormontt, D. M. Richardson, and A. J. Lowe. 2008. Adaptive evolution in invasive species. <i>Trends in Plant Science</i> 13:288-294.	93
Rawlings, L. H., D. L. Rabosky, S. C. Donnellan, and M. N. Hutchinson. 2008. Python phylogenetics: inference from morphology and mitochondrial DNA. <i>Biological Journal of the Linnean Society</i> 93:603-619.	94

Reid, J. L., J. B. C. Harris, L. J. Martin, J. R. Barnett, and R. A. Zahawi. 2008. Distribution and abundance of nearctic-neotropical songbird migrants in a forest restoration site in southern Costa Rica. <i>Journal of Tropical Ecology</i> 24:685-688.	95
Reid, J. L., J. P. Evans, J. K. Hiers, and J. B. C. Harris. 2008. Ten years of forest change in two adjacent communities on the southern Cumberland Plateau, USA. <i>Journal of the Torrey Botanical Society</i> 135:224-235.	96
Repulles-Albelda, A., F. E. Montero, A. S. Holzer, K. Ogawa, K. S. Hutson, and J. A. Raga. 2008. Speciation of the <i>Paradeontacylix</i> spp. (Sanguinicolidae) of <i>Seriola dumerili</i> . Two new species of the genus <i>Paradeontacylix</i> from the Mediterranean. <i>Parasitology International</i> 57:405-414.	97
Runcie, J. W., C. F. D. Gurgel, and K. J. McDermid. 2008. In situ photosynthetic rates of tropical marine macroalgae at their lower depth limit. <i>European Journal of Phycology</i> 43:377-388.	98
Saarela, J. M., P. J. Prentis, H. S. Rai, and S. W. Graham. 2008. Phylogenetic relationships in the monocot order Commelinales, with a focus on Philydraceae. <i>Botany-Botanique</i> 86:719-731.	99
Sanders, K. L., and M. S. Y. Lee. 2008. Molecular evidence for a rapid late-Miocene radiation of Australasian venomous snakes (Elapidae, Colubroidea). <i>Molecular Phylogenetics and Evolution</i> 46:1165-1173.	100
Sanders, K. L., M. S. Y. Lee, R. Leys, R. Foster, and J. S. Keogh. 2008. Molecular phylogeny and divergence dates for Australasian elapids and sea snakes (hydrophiinae): evidence from seven genes for rapid evolutionary radiations. <i>Journal of Evolutionary Biology</i> 21:682-695.	101
Searle, J. B., P. M. Jamieson, I. Gunduz, M. I. Stevens, E. P. Jones, C. E. C. Gemmill, and C. M. King. 2008. The diverse origins of New Zealand house mice. <i>Proceedings of the Royal Society B-Biological Sciences</i> 276:209-217.	102
Shoo, L. P., R. Rose, P. Doughty, J. J. Austin, and J. Melville. 2008. Diversification patterns of pebble-mimic dragons are consistent with historical disruption of important habitat corridors in and Australia. <i>Molecular Phylogenetics and Evolution</i> 48:528-542.	103
Sims, D. W., E. J. Southall, N. E. Humphries, G. C. Hays, C. J. A. Bradshaw, J. W. Pitchford, A. James, M. Z. Ahmed, A. S. Brierley, M. A. Hindell, D. Morritt, M. K. Musyl, D. Righton, E. L. C. Shepard, V. J. Wearmouth, R. P. Wilson, M. J. Witt, and J. D. Metcalfe. 2008. Scaling laws of marine predator search behaviour. <i>Nature</i> 451:1098-U1095.	104
Skinner, A., M. S. Y. Lee, and M. N. Hutchinson. 2008. Rapid and repeated limb loss in a clade of scincid lizards. <i>BMC Evolutionary Biology</i> 8:Article No.: 310.	105
Sodhi, N. S., and B. W. Brook. 2008. Fragile southeast Asian biotas. <i>Biological Conservation</i> 141:883-884.	106
Sodhi, N. S., D. Bickford, A. C. Diesmos, T. M. Lee, L. P. Koh, B. Brook, C. H. Sekercioglu, and C. J. A. Bradshaw. 2008. Measuring the meltdown: drivers of global amphibian extinction and decline. <i>PLoS One</i> 3.	107
Sodhi, N. S., L. P. Koh, K. S. H. Peh, H. T. W. Tan, R. L. Chazdon, R. T. Corlett, T. M. Lee, R. K. Colwell, B. W. Brook, C. H. Sekercioglu, and C. J. A. Bradshaw. 2008. Correlates of extinction proneness in tropical angiosperms. <i>Diversity and Distributions</i> 14:1-10.	108
Stephens, C. J., J. M. Facelli, and A. D. Austin. 2008. The impact of bridal creeper (<i>Asparagus asparagoides</i>) on native ground-cover plant diversity and habitat structure. <i>Plant Protection Quarterly</i> 23:136-143.	109
Taylor, G. S., and K. A. Davies. 2008. New species of gall flies (Diptera: Fergusoninidae) and an associated nematode (Tylenchida: Neotylenchidae) from flower bud galls on <i>Corymbia</i> (Myrtaceae). <i>Australian Journal of Entomology</i> 47:336-349.	110
Taylor, G. S., B. Gollnow, and R. Worrall. 2008. A new species of <i>Cerotrioza</i> Crawford (Hemiptera: Triozidae) damaging Christmas Bush, <i>Ceratopetalum gummiferum</i> Smith in eastern Australia. <i>Australian Journal of Entomology</i> 47:330-335.	111
Thums, M., C. J. A. Bradshaw, and M. A. Hindell. 2008. A validated approach for supervised dive classification in diving vertebrates. <i>Journal of Experimental Marine Biology and Ecology</i> 363:75-83.	112
Thums, M., C. J. A. Bradshaw, and M. A. Hindell. 2008. Tracking changes in relative body composition of southern elephant seals using swim speed data. <i>Marine Ecology-Progress Series</i> 370:249-261.	113

Tovar-Avila, J., C. Izzo, T. I. Walker, J. M. Braccini, and R. W. Day. 2008. Dorsal-fin spine growth model for <i>Heterodontus portusjacksoni</i> : a general model that applies to dorsal-fin spines of chondrichthyans? <i>Canadian Journal of Fisheries and Aquatic Sciences</i> 65:74-82.	114
Wheatley, K. E., C. J. A. Bradshaw, R. G. Harcourt, and M. A. Hindell. 2008. Feast or famine: evidence for mixed capital-income breeding strategies in Weddell seals. <i>Oecologia</i> 155:11-20.	115
Wheatley, K. E., P. D. Nichols, M. A. Hindell, R. G. Harcourt, and C. J. A. Bradshaw. 2008. Differential mobilization of blubber fatty acids in lactating weddell seals: Evidence for selective use. <i>Physiological and Biochemical Zoology</i> 81:651-662.	116
Wheaton, L., S. C. Donnellan, M. G. Gardner, and G. J. HollisO. 2008. Isolation of polymorphic tri- and tetranucleotide microsatellite loci for the highly endangered Baw Baw frog (<i>Philoria frosti</i>). <i>Molecular Ecology Resources</i> 8:593-595.	117
Whittington, I. D., and G. C. Kearns. 2008. <i>Trimusculotrema heronensis</i> sp nov (Monogenea, Capsalidae) from the skin of the pink whipray <i>Himantura fai</i> (Elasmobranchii, Dasyatidae) from Heron Island, Queensland, Australia. <i>Acta Parasitologica</i> 53:251-257.	118
Whittington, I. D., and L. A. Chisholm. 2008. Diseases caused by Monogenea. <i>Journal of Fish Diseases</i> . 2:683-816.	119
Wood, J. R., N. J. Rawlence, G. M. Rogers, J. J. Austin, T. H. Worthy, and A. Cooper. 2008. Coprolite deposits reveal the diet and ecology of the extinct New Zealand megaherbivore moa (Aves, Dinornithiformes). <i>Quaternary Science Reviews</i> 27:2593-2602.	120
Wood, J. R., T. H. Worthy, N. J. Rawlence, S. M. Jones, and S. E. Read. 2008. A deposition mechanism for Holocene miring bone deposits, South Island, New Zealand. <i>Journal of Taphonomy</i> 6:1-20.	121
Worawittayawong, P., C. Leigh, W. Weerachatanukul, S. Manochantr, P. Sobhon, W. G. Breed, and P. Sretarugsa. 2008. Changes in distribution of basic nuclear proteins and chromatin organization during spermiogenesis in the greater bandicoot rat, <i>Bandicota indica</i> . <i>Cell and Tissue Research</i> 334:135-144.	122
Worthy, T. H., and M. S. Y. Lee. 2008. Affinities of Miocene waterfowl (Anatidae: <i>Manuherikia</i> , <i>Dunstanetta</i> and <i>Miotadorna</i>) from the St Bathans Fauna, New Zealand. <i>Palaeontology</i> 51:677-708.	123
Yang, G. J., C. J. A. Bradshaw, P. I. Whelan, and B. W. Brook. 2008. Importance of endogenous feedback controlling the long-term abundance of tropical mosquito species. <i>Population Ecology</i> 50:293-305.	124
Yang, G., B. W. Brook, P. I. Whelan, S. Cleland, and C. J. A. Bradshaw. 2008. Endogenous and exogenous factors controlling temporal abundance patterns of tropical mosquitoes. <i>Ecological Applications</i> 18:2028-2040.	125

Summary of 2008 publications

ERA Journal Rank	Count
A*	11
A	35
B	41
C	26
NOT RANKED	12
TOTAL	125

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ACEBB Funding 2007

ACEBB member principal investigator 2007

Principal Investigator	Project Title	Funding Type	Primary Funding Body	Amount
Austin, Andrew	Systematics of the Australian spider-hunting wasps (Hymenoptera: Pompilidae)	Category 1	Australian Biological Resources Study (ABRS)	\$37,000.00
Austin, Andrew	Comparative phylogeography of mound springs-invertebrates: identifying genetically divergent populations for conservation and management	Category 1	ARC Linkage	\$100,845.00
Austin, Andrew	PBI: diversity and the parasitoid life history strategy - the superfamily Platygastridae (Hymenoptera)	Category 3	National Science Foundation Grant	\$20,903.00
Austin, Andrew	Systematics and coevolution of insect herbivores on casuarinas: testing phylogenetic congruence for selection of plant biocontrol agents	Category 1	ARC Linkage	\$71,628.00
Austin, Andrew	Development of Australian Hymenoptera, Ichneumonidae; Phygadeuontinae and Tryphoninae	Category 1	Australian Biological Resources Study (ABRS)	\$8,500.00
Austin, Jeremy	Extinctions past and present- using ancient DNA to investigate extinctions of Australia's largest marsupial carnivores. ARC, DP0772566	Not Specified	AU Sciences Research Strategic Scheme	\$10,000.00
Azmi, Wahi	Effect of the removal of exotic willows on the invertebrate communities in the River Murray, SA	Category 3	NCSSA	\$500.00
Bradford, Tessa	Evolution 2007 - the joint annual meeting of the Society for the Study of Evolution, the Society of the Systematic Biologist and the American Society of Naturalists; 16-20 June 2007, Christchurch, NZ	Not Specified	ABRS Bursary for Student Travel	\$1,000.00
Brook, Barry	The Sir Hubert Wilkins Chair of Climate Change	Category 2	State Government Initiative	\$250,000.00
Brook, Barry	Plant herbivore interactions: a model two - species system from northern Australia	Category 1	ARC Discovery	\$25,884.00
Carthew, Susan	Conservation genetics and socio-ecology of marsupials in fragmented populations of south-eastern South Australia: towards a regional biodiversity management plan	Category 1	ARC Linkage	\$97,457.00
Conran, John	Ecology and conservation of <i>Tapheocarpa calandrinoides</i> (Commelinaceae): a unique genus of ornamental aquatic macrophyte	Category 3	Sir Mark Mitchell Research Foundation Grant	\$7,896.00
Conran, John	Revegetation patterns of remediated sites within the former nuclear test site at Maralinga, South Australia	Category 3	Lirabenda Endowment Fund	\$3,000.00

Cooper, Steven	Modes of speciation in subterranean diving beetles from calcrete aquifers of central Western Australia	Category 1	ARC Discovery	\$51,982.00
Donnellan, Stephen	Systematic revision of the Australo-Papuan hylid frogs based on a comprehensive molecular genetic framework	Category 1	Australian Biological Resources Study (ABRS)	\$31,000.00
Fuller, Nick	Population genetics and socioecology of Gould's long-eared bat (<i>Nyctophilus gouldi</i>) and the lesser long-eared bat (<i>N.geoffroyi</i>) in fragmented populations of south-eastern SA and western Victoria.	Category 3	ANZ Holsworth Wildlife Research Fund	\$2,497.50
Gurgel, Fred	Marine botanist chair	Category 2	DEH Research Grant	\$75,000.00
Gurgel, Fred	Developing DNA fingerprinting identification tools for South Australia's marine microalgae	Category 2	DEH Research Grant ABRS Bursary for Student	\$25,000.00
Halt, Magdalena	Barcoding of life and the phylogeny of Cirratuliform polychaetes	Not Specified	Travel	\$1,000.00
Hill, Robert	Global differentiation of the conifer flora	Category 1	ARC Discovery	\$122,459.00
Hill, Robert	Discovering the past and present to shape the future: networking environmental sciences for understanding and managing Australian biodiversity	Category 1	ARC Research Networks	\$375,940.00
Hill, Robert	Funding towards appointment of chair of conservation biology	Category 2	DEH Research Grant	\$80,000.00
Hutchinson, Mark	Systematics and evolutionary history of the most successful Australian geckos - <i>Gehyra</i>	Category 1	Australian Biological Resources Study (ABRS)	\$22,000.00
Hutson, Kate	Metazoan parasite survey of selected macro-inshore fish of southeastern Australia, including species of commercial importance	Category 1	FRDC Grant	\$27,151.00
Hutson, Kate	Metazoan parasites of selected macro-inshore fish of southeastern Australia, including species of commercial importance	Category 1	Australian Biological Resources Study (ABRS) Sir Mark Mitchell Research Foundation Grant	\$60,000.00
Izzo, Christopher	Telomeres: a novel and non-lethal chondrichthyan ageing method	Category 3	Sea World R&RF Inc. Rsch	\$4,375.00
Izzo, Christopher	Ageing sharks, rays and fish using non-lethal molecular methods	Not Specified	Grant	\$11,300.00
Izzo, Christopher	Changes in telomere length may provide a non-lethal means of determining the ages of free-living chondrichthyan populations	Not Specified	AAS Award Australian Biological Resources Study (ABRS)	\$3,000.00
Jennings, John	Systematics of the Australian ensign wasps (Hymenoptera: Evaniidae)	Category 1	Resources Study (ABRS)	\$33,000.00
Jennings, John	Databasing WINC collection	Not Specified	APPD	\$20,625.00
Lee, Michael	Major Evolutionary Events in Reptiles (Including Birds)	Category 1	ARC Discovery	\$138,999.00
Lee, Michael	The puzzle of Metazoan life history evolution: are feeding larvae always primitive?	Category 1	ARC Discovery	\$84,917.00
Lee, Michael	Biogeography and evolution of Australia's fossil reptiles: A global	Category 1	ARC Linkage International	\$10,396.00

Principal	ACEBB	Project Title	Funding Type	Primary Funding Body	Amount
		perspective		Awards	
Lee, Michael		The Cambrian Explosion of Arthropods in Australia: Ediacaran origins, evolution and biodiversity	Category 1	ARC Linkage	\$126,822.00
Lowe, Andrew		Genetic dynamics of lowland rainforest trees on islands in the tropical Southwest Pacific	Category 3	APSF Rsch Grant	\$15,000.00
Lowe, Andrew		Genetic delimitation and health assessment of threatened flora	Category 2	DEH Research Grant	\$57,870.00
		Why do only some exotics become invasive? Combining ecological and genomic approaches to address alternative hypotheses in a recent Australian weed.			
Lowe, Andrew		Developing biogeographic know-how: improving species divergence and dispersal estimations to examine geological and climatic evolutionary drivers	Category 1	ARC Discovery	\$172,000.00
Lowe, Andrew		Evolution of the unique fauna of the Great Artesian Basin mound springs: the impact of aridification and climate change.	Category 1	ARC Discovery	\$90,448.00
Murphy, Nicholas		The Genetic Value Of Paddock Trees Vs. Remnant Vegetation For Revegetation/Restoration	Category 1	ARC Discovery	\$75,364.00
Ottewell, Kym		Reproductive biology and phylogeography of rock-wallabies in the Kimberley, WA	Category 2	Native Vegetation Council	\$3,750.00
Potter, Sally		Systematic studies on Thysanotus R. Br. (Laxmanniaceae)	Category 3	ANZ Holsworth Wildlife Research Fund	\$1,875.00
Sirisena, Udani		Systematic studies on Thysanotus R. Br. (Laxmanniaceae)	Category 3	Nature Foundation of South Australia	\$1,000.00
Sirisena, Udani		Systematic studies on Thysanotus R. Br. (Laxmanniaceae)	Category 3	Biology Society of South Australia	\$1,500.00
Trengrove, Karleah		The ecology of the Greater Bilby (<i>Macrotis lagotis</i>): implications for confined populations	Category 3	NFSA Grant	\$666.67
		Phylogeny and radiation of flatworm ectoparasites from marine fish using morphology and genetics, with novel approaches to identify pathogenic species			
Whittington, Ian		Marine flatworm parasites of elasmobranchs: a unique model for experiments exploring invasion strategies, biology and specificity to help understand parasitism	Category 1	ARC Discovery	\$74,303.00
Whittington, Ian		Marine flatworm parasites of elasmobranchs: a unique model for experiments exploring invasion strategies, biology and specificity to help understand parasitism	Category 1	ARC Discovery	\$63,688.00
TOTAL					\$2,499,541.17

ACEBB member not principal investigator 2007

Principal	ACEBB	Project Title	Funding Type	Primary Funding Body	Amount
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Investigator	member				
Facelli, Jose (UofA)	Austin, Andrew; Donnellan, Steve	Population genetics and dynamics of orchids and their pollinators in fragmented landscapes of South Australia.	Category 1	ARC Linkage	\$149,696.00
Paton, David (UofA)	Lowe, Andrew; Hill, Robert	Habitat reconstruction and restoration: securing biodiversity assets in the face of climate change.	Category 1	Working group within ARC Environmental Futures Network	\$19,000.00
Richardson, David (International)	Lowe, Andrew	Research for integrated management of invasive alien species; Using genetic techniques to improve understanding and management of invasive alien plant species in South Africa	International	Working for Water Programme, South African Government	\$216,000.00
Timmis, Jeremy (UofA)	da Silva, Jack	Analysis of interorganellar transposition of DNA	Category 1	ARC Discovery	\$86,290.00
Total					\$470,986.00

Non-University of Adelaide financed grants 2007

ACEBB member	Project Title	Funding Type	Primary Funding Body	Amount
Hill, Robert	Fossil evidence for the evolution of Australia's modern vegetation	Category 1 Funding	ARC Discovery	\$20,000.00
Lee, Michael	Unravelling the last great Gondwanan mystery: the first land vertebrate fauna from the Tertiary of New Zealand	Category 1 Funding	ARC Discovery	\$78,817.00
Stevens, Mark	Introduced invasive terrestrial invertebrates on Macquarie Island: studies on ecology, origins and control	Category 1 Funding	Australian Antarctic Division	\$9,500.00
Stevens, Mark	Molecular studies of the origins and dispersal patterns of invertebrates in the Antarctic and Subantarctic.	Category 1 Funding	Australian Antarctic Division	\$9,500.00
Stevens, Mark	Research Fellowship	International	NZ FRST	\$15,500.00
Stevens, Mark	Sir Robin Irvine scholarship (to assist PhD student research	International	Antarctica New Zealand	\$10,833.33
Stevens, Mark	Understanding, valuing and protecting Antarctica's unique terrestrial ecosystems: Predicting biocomplexity in Dry Valley ecosystems. International Polar Year (IPY)	International	FRST and Antarctica New Zealand	\$202,250.00

Total	\$346,400.33
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Summary of funding 2007

Funding	Amount
ACEBB member principal investigator	\$2,499,541.17
ACEBB member not principal investigator	\$470,986.00
Non-University of Adelaide financed grants	\$346,400.33
2007 Total	\$3,316,927.50

ACEBB Funding 2008

ACEBB member principal investigator 2008

Principal Investigator	Project Title	Funding Type	Primary Funding Body	Amount
Austin, Andrew	Comparative phylogeography of mound springs-invertebrates: identifying genetically divergent populations for conservation and management	Category 1	ARC Linkage Project Grants	\$18,181.00
Austin, Andrew	Systematics and coevolution of insect herbivores on casuarinas: testing phylogenetic congruence for selection of plant biocontrol agents	Category 1	ARC Linkage Project Grants	\$32,500.00
Austin, Andrew	Systematics, biogeography and hosts of Australian scelionid wasps (Hymenoptera: Scelionidae): parasitoids of insects and spider eggs	Category 1	Australian Biological Resources Study (ABRS)	\$9,875.00
Austin, Andrew	The national postgraduate taxonomic workshop	Category 1	Australian Biological Resources Study (ABRS)	\$3,000.00
Austin, Jeremy	Ancient dingo DNA	Category 2	DAFF Project Grant	\$103,591.00
Austin, Jeremy	Bettong genetics	Category 3	Department of Primary Industry and Water	\$20,625.00
Azmi, Wahi	Effect of the removal of exotic willows on the invertebrate communities in the River Murray, SA	Category 3	NCSSA	\$107,100.00
Bradshaw, Corey	Density regulation as a major determinant of population persistence: advancing empirical and theoretical approaches to conserve biodiversity	Category 1	ARC Discovery Project Grants	\$84,834.00
Brook, Barry	Reconstructing past population dynamics to understand human and climatic impacts in prehistory	Category 1	ARC Discovery Project Grants	\$9,435.00
Brook, Barry	The Sir Hubert Wilkins Chair of Climate Change	Category 2	State Government Initiative	\$8,800.00
Conran, John	Population structure of the Albany Pitcher Plant (<i>Cephalotus follicularis</i>) and its associated pitcher-inhabiting wingless fly (<i>Basidis ambulans</i>).	Category 3	Sir Mark Mitchell Research Foundation Grant	\$382,309.00

Cooper, Steven	Development of Australian model systems for speciation research	Category 1	ARC Linkage International Awards	\$500.00
Cooper, Steven	Exploration of a new subterranean terrestrial ecosystem in the arid zone of Australia	Category 3	National Geographic	\$76,871.00
Cooper, Steven	Modes of speciation in subterranean diving beetles from calcrete aquifers of central Western Australia	Category 1	ARC Discovery Project Grants	\$86,666.67
Cooper, Steven	Systematics of chiltoniidae (Amphipoda: Crustacea) in mound springs and calcrete aquifers of Western and South Australia	Category 1	Australian Biological Resources Study (ABRS)	\$12,000.00
Fuller, Nick	Population genetics and socioecology of Gould's long-eared bat (<i>Nyctophilus gouldi</i>) and the lesser long-eared bat (<i>N.geoffroyi</i>) in fragmented populations of south-eastern SA and western Victoria	Category 3	ANZ Holsworth Wildlife Research Fund	\$80,000.00
Fuller, Nick	Population genetics and socioecology of Gould's long-eared bat (<i>Nyctophilus gouldi</i>) and the lesser long-eared bat (<i>N.geoffroyi</i>) in fragmented populations of south-eastern SA and western Victoria.	Category 3	ANZ Holsworth Wildlife Research Fund	\$6,500.00
Gardner, Mike	Development of pelican microsatellites	Category 3	Nature Foundation SA	\$124,907.00
Gardner, Mike	Population genetic structure of Sea Cucumbers (bêche-de-mer) in Northern Australia	Category 2	Seafood CRC	\$1,470.00
Gardner, Mike	Sexing markers for sleepy lizards	Category 3	Sir Mark Mitchell Award (Tower Trust)	\$89,760.00
Gurgel, Fred	Marine botanist chair	Category 2	DEH Research Grant	\$75,000.00
Hill, Robert	Discovering the past and present to shape the future: networking environmental sciences for understanding and managing Australian biodiversity	Category 1	ARC Research Networks	\$27,232.00
Hill, Robert	Funding towards appointment of chair of conservation biology	Category 2	DEH Research Grant	\$60,000.00
Hill, Robert	Global differentiation of the conifer flora	Category 1	ARC Discovery Project Grants	\$53,021.00
Hill, Robert	The role of atmospheric carbon dioxide in fostering hyperdiversity in Australian conifer palaeofloras	Category 1	ARC Discovery Project Grants	\$94,701.00
Hutchinson, Mark	Systematics and evolutionary history of the most successful Australian geckos - Gehyra	Category 1	Australian Biological Resources Study (ABRS)	\$3,750.00
Hutson, Kate	Metazoan parasite survey of selected macro-inshore fish of southeastern Australia, including species of commercial	Category 1	FRDC Grant	\$2,497.50

	importance			
Hutson, Kate	Metazoan parasites of selected macro-inshore fish of southeastern Australia, including species of commercial importance	Category 1	Australian Biological Resources Study (ABRS)	\$13,100.00
Izzo, Chris	Changes in telomere length may provide a non-lethal means of determining the ages of free-living chondrichthyan populations	Category 3	AAS Award	\$2,370.00
Izzo, Chris	Population structure of the Port Jackson shark	Category 3	PADI Project Aware	\$4,000.00
Izzo, Chris	Population structure of the Port Jackson shark	Category 3	Sir Mark Mitchell Research Foundation	\$217,260.00
Jennings, John	Australian Plant Pest Database	Category 3	Plant Health Australia Project Funding	\$1,875.00
Jennings, John	Databasing WINC collection	Category 2	APPD	\$8,200.00
Jennings, John	Systematics of the Australian ensign wasps (Hymenoptera: Evaniidae)	Category 1	Australian Biological Resources Study (ABRS)	\$1,000.00
Lee, Michael	Evolutionary diversification and limb loss in <i>Lerista</i> lizards	Category 1	ARC discovery	\$113,886.00
Lee, Michael	Insights into macroevolution using a model adaptive radiation of lizards (<i>Lerista</i>)	Category 1	ARC Discovery Project Grants	\$22,000.00
Lee, Michael	The Cambrian Explosion of Arthropods in Australia: Ediacaran origins, evolution and biodiversity	Category 1	ARC Linkage Project Grants	\$60,000.00
Lee, Michael	Unravelling the last great Gondwanan mystery: the first land vertebrate fauna from the Tertiary of New Zealand	Category 1	ARC Discovery Project Grants	\$33,000.00
Lowe, Andrew	Developing biogeographic know-how: improving species divergence and dispersal estimations to examine geological and climatic evolutionary drivers	Category 1	ARC Discovery Project Grants	\$34,100.00
Lowe, Andrew	Genetic dynamics of lowland rainforest trees on islands in the tropical Southwest Pacific	Category 3	APSF Rsch Grant	\$128,659.00
Lowe, Andrew	Why do only some exotics become invasive? Combining ecological and genomic approaches to address alternative hypotheses in a recent Australian weed.	Category 1	ARC Discovery Project Grants	\$666.67
Lowther, Andrew	The role of social and genetic factors in shaping alternate foraging strategies in the Australian sea lion	Category 3	ANZ Holsworth Wildlife Research Fund	\$3,750.00
MacGillivray, Fran	Tracking phenological shifts and evolutionary impacts of climate change	Category 3	Australian Orchid Foundation	\$11,000.00
MacGillivray, Fran	Tracking phenological shifts and evolutionary impacts relating to	Category 3	Australian Geographic	\$81,959.00

	climate change		Society	
Murphy, Nicholas	Evolution of the unique fauna of the Great Artesian Basin mound springs: the impact of aridification and climate change.	Category 1	ARC Discovery Project Grants	\$1,850.00
Ottewell, Kym	The Genetic Value Of Paddock Trees Vs. Remnant Vegetation For Revegetation/Restoration	Category 2	Native Vegetation Council	\$250,000.00
Potter, Sally	Reproductive biology and phylogeography of rock-wallabies in the Kimberley, WA	Category 3	ANZ Holsworth Wildlife Research Fund	\$4,230.00
Scoble, Jolene	Identifying historic and contemporary refugia for semi-arid avifauna threatened by climate change across ecotones of intact and relic mallee vegetation in South Australia	Category 3	Australian Geographic Society	\$125.00
Sirisena, Udani	Systematic studies on <i>Thysanotus</i> R. Br. (Laxmanniaceae)	Category 3	NCSSA	\$70,500.00
Trengrove, Karleah	The ecology of the Greater Bilby (<i>Macrotis lagotis</i>): implications for confined populations	Category 3	NFSA Grant	\$182,393.00
TOTAL				\$2,821,049.83

ACEBB member not principal investigator 2008

Principal Investigator	ACEBB member	Project Title	Funding Type	Primary Funding Body	Amount
Carthew, Sue	Cooper, Steven	Conservation genetics of an endangered marsupial, the Southern Brown Bandicoot in fragmented south-eastern South Australia	Category 2	Native Vegetation Council	\$10,789.00
Carthew, Sue	Cooper, Steven	Conservation genetics of an endangered marsupial, the Southern Brown Bandicoot in fragmented south-eastern South Australia	Category 2	Wildlife Conservation Fund and Nature Foundation of SA	\$11,688.00
Carthew, Sue	Cooper, Steven	Conservation genetics and socio-ecology of marsupials in fragmented populations of south-eastern South Australia: towards a regional biodiversity management plan	Category 1	ARC Linkage Project Grants	\$101,928.00
Connell, Sean	Gurgel, Fred	Forecasting change in subtidal habitats: connecting local pollution with global climate in temperate Australia.	Category 1	ARC Linkage Project Grants	\$100,629.00
Paton, David	Lowe, Andrew; Hill, Robert	Habitat reconstruction and restoration: securing biodiversity assets in the face of climate change.	Category 1	Working group within ARC Environmental Futures Network	\$19,000.00
Timmis, Jeremy	da Silva, Jack	Analysis of interorganelar transposition of DNA	Category 1	ARC Discovery Project Grants	\$88,015.00

Venning, Jackie	Brook, Barry	Research Institute for Climate and Sustainability, Executive Advisor	Category 2	PIRSA Grant	\$55,946.00
Total					\$387,995.00

Non-University of Adelaide financed grants 2008

ACEBB member	Project Title	Funding Type	Primary Funding Body	Amount	
Brook, Barry	Applying search theory for eradicating invasive species	Category 1	ARC discovery	\$122,500.00	
Stevens, Mark	Introduced invasive terrestrial invertebrates on Macquarie Island: studies on ecology, origins and control	Not Classified	Australian Antarctic Division	\$9,500.00	
Stevens, Mark	Molecular studies of the origins and dispersal patterns of invertebrates in the Antarctic and Subantarctic.	Not Classified	Australian Antarctic Division	\$9,500.00	
Stevens, Mark	Sir Robin Irvine scholarship (to assist PhD student research	International	Antarctica New Zealand	\$10,833.33	
Stevens, Mark	Research Fellowship	International	NZ FRST	\$15,500.00	
Stevens, Mark	Support collaborative Collembola systematics project	International	CNRS	\$35,000.00	
Stevens, Mark	Understanding, valuing and protecting Antarctica's unique terrestrial ecosystems: Predicting biocomplexity in Dry Valley ecosystems.	International	FRST and Antarctica New Zealand	\$202,250.00	
Brook, Barry; Lowe, Andrew	International Polar Year (IPY) Terrestrial Biodiversity - Adaptation Research Network	Category 1	National Climate Change Adaptation Research Facility	\$266,666.67	
Total					\$671,750.00

Summary of funding 2008

Funding	Amount
ACEBB member principal investigator	\$2,821,049.83
ACEBB member not principal investigator	\$387,995.00
Non-University of Adelaide financed grants	\$671,750.00
2008 Total	\$3,880,794.83