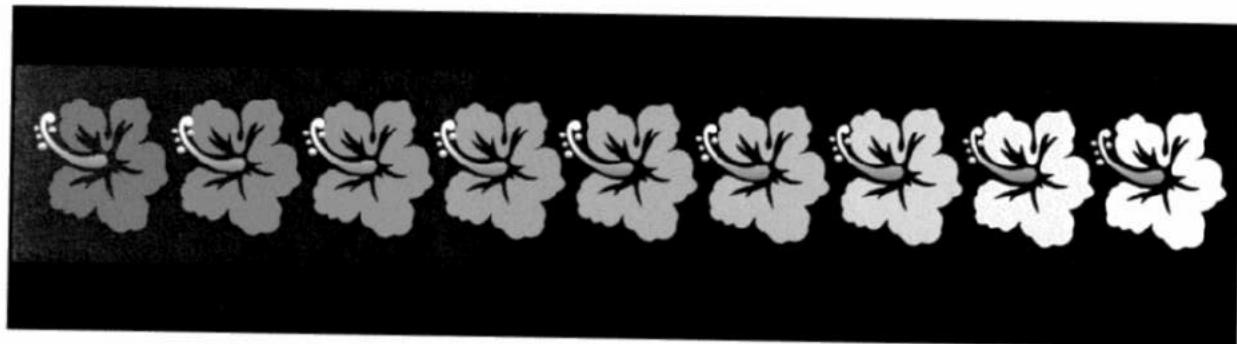


SCIENTIFIC PROGRAMME

evolution 2007



JOINT MEETING

Society for the Study of Evolution

American Society of Naturalists

Society of Systematic Biologists

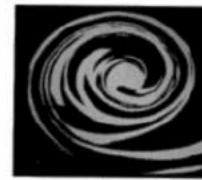
JUNE 16-20 CHRISTCHURCH CONVENTION CENTRE



Massey
University







evolution 2007

PROGRAMME

Annual Meetings
June 16-20, 2007

American Society of Naturalists
Society for the Study of Evolution
Society of Systematic Biologists

Christchurch Convention Centre
Christchurch, New Zealand

Welcome to Evolution 2007

Kia ora – Welcome to New Zealand, Aotearoa and to the Christchurch Convention Centre.

The Allan Wilson Centre for Molecular Ecology and Evolution is delighted that so many of you have been able to join us. The ‘AWC’ is pleased to be able to coordinate this meeting on behalf of the Society for the Study of Evolution, the American Society of Naturalists and the Society of Systematic Biologists. This meeting is not only an important event for the AWC, but also for New Zealand. It is the first time that this important meeting has been held outside the US and Canada. We hope that this will be an interesting and stimulating meeting for all. We have attracted approximately 900 visitors, the majority from overseas, and many of you have traveled very great distances to be here. We appreciate your efforts in doing so.

The AWC was formed in 2002 as part of the New Zealand Government’s initiative to establish centres of research excellence and named in memory of New Zealander Allan Wilson. The AWC comprises investigators from five New Zealand Universities and we currently have 58 postgraduate students and 38 postdoctoral fellows. The AWC is located at six sites around the country and comprises biologists and mathematicians. Our goal is to develop world-class research programmes in molecular ecology and evolution and to attract international visitors to New Zealand. You are a vital part of this latter goal.

Not surprisingly, the conference will comprise many talks from researchers in New Zealand and Australia. We hope that our Northern Hemisphere colleagues will find these interesting. The work of the late David Lloyd, a New Zealander based at University of Canterbury, here in Christchurch, will be featured in an SSE symposium on plant reproductive strategies.

We hope that you will have an enjoyable and productive time here in Christchurch.

David Lambert and Craig Millar

On Behalf of the Organising Committee and the Allan Wilson Centre for Molecular Ecology and Evolution

Acknowledgements

It would not have been possible to organize this meeting without the efforts of many people. Most notably Ian Anderson took on the role of conference secretary at an early stage. He has worked tirelessly to make sure that the conference is well organised and runs smoothly. He has spent many hours gathering information, contributing to the website, consulting with the conference venue staff and corresponding with many of you in relation to a myriad of problems and issues. It has been a pleasure working with him and we cannot thank him enough.

Vivian Ward from the School of Biological Sciences at the University of Auckland created the conference logo and the conference posters. The web graphics were designed and implemented by Rob Anderson and we thank Conference Online for assistance with registration software and data capture. Andrew Clarke was responsible for the production of the conference programme and assisted with timetabling. We thank him for his efforts. Hamish Spencer and Mike Steel also provided advice with regards to the timetabling of talks and sessions.

In anticipation, we thank the session chairs for their help with the smooth running of the programme. Massey University's printery provided all the copies of posters and copies of the conference programme. We thank them for their help. On your behalf we also thank the staff of the convention centre, for their help in the planning stages and over the five days of the meeting.

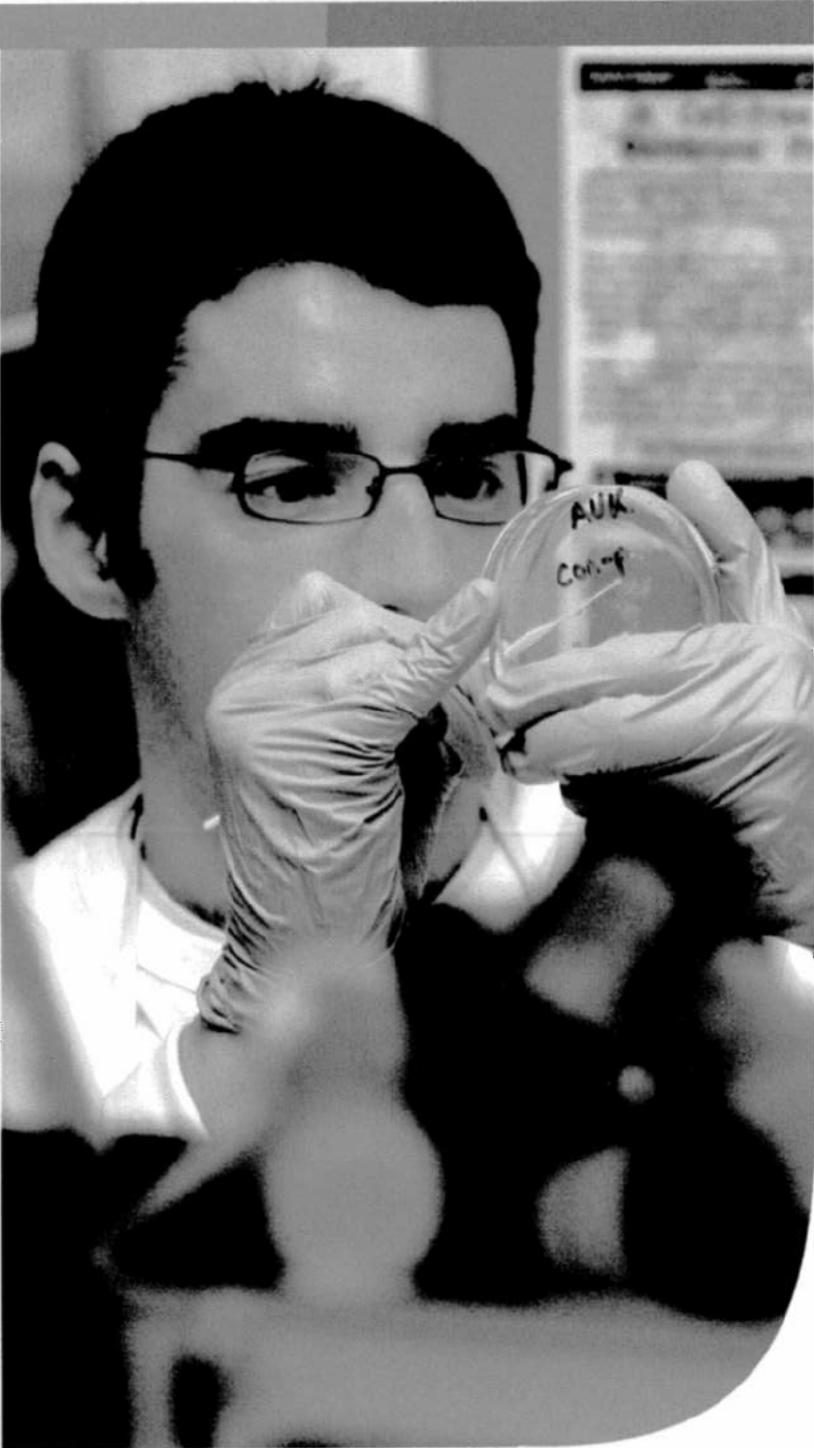
Many companies, both national and international, have kindly sponsored the programme. We have 30+ sponsors and exhibitors. We thank them for their financial assistance and for their participation in the conference. We also thank Mike Hendy and the staff of the AWC, notably Susan Adams, Karen Sinclair and Joy Wood for help with conference administration. We appreciate the assistance of the 20 graduate student volunteers, mostly from Canterbury University, for their help. You will see them about the conference centre. They are there to help you, please feel free to talk with them if you need assistance.

We thank the officers of all three societies for their advice and help during the build up to this event. From SSE we are particularly grateful to Jessica Gurevitch, Don Waller and Dale Clayton. We are also grateful for help received from Lynda Delph. From ASN we have appreciated helpful comments from Trevor Price and from SSB, George Weiblen and Chris Simon were of great assistance to us. We wish to thank also the symposium organizers who recruited speakers and coordinated the presentations. The AWC and the societies are thanked for providing travel grants for students. Thanks too, to Mike Steel and Neil Gemmell for the T-shirt initiative.

This conference would not have been possible without the support of the New Zealand Government's Centres of Research Excellence Fund, via its support for the AWC. The Royal Society of New Zealand also helped with a major grant to the organizing committee, as did the Canterbury Events Fund. The very supportive team at the Christchurch Convention Bureau, Annette Pendergast, Metka Conlan and Debbie Roxby provided invaluable advice, assistance and encouragement that has enabled us to stage this event in Christchurch. We thank them all.

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Registration and General Information

Registration and Information

Registration and general help will be available in the ground floor foyer area of the convention centre at the following times:

Saturday, 16 June	12.00 midday to 6.30pm
Sunday, 17 June	8.00am to 5.00pm
Monday, 18 June	8.00am to 5.00pm
Tuesday, 19 June	8.00am to 5.00pm
Wednesday, 20 June	8.00am to 5.00pm

Volunteer student helpers and conference administrative staff will be identifiable by their distinctive bone coloured conference T-shirts with BROWN motifs. Please feel free to seek advice and assistance from this team at any time.

To ensure admission to all scientific sessions, coffee/tea breaks and lunches, please ensure you wear your lanyard and name tag — your name tag is your “admission ticket” to all conference sessions

Message Board

A message board is located near the **Registration/Information** desk in the convention centre foyer.

Presentations

Oral presentations are limited to 30 minutes for invited symposia speakers, and 15 minutes for concurrent session speakers. We suggest that invited speakers talk for 25 minutes, with 5 minutes for questions. All other presentations should be 12 minutes, with 3 minutes for questions (15 minutes, total). Please consult the program ahead of time to confirm the time and location of your talk and make yourself known to the session chair well before the session starts. In other than symposia and special sessions, **unless otherwise noted, the session chair will be the first speaker listed for that session.**

There will be a PC and data projector available for presentations in each room. A student helper or a technician from the audio-visual (AV) service provider will be present at each scientific session to assist Chairs of sessions and speakers and to liaise with the AV control centre. All talks MUST be loaded onto a central server in the AV control centre which will be networked to the PCs in each of the presentation rooms. All speakers must deliver their talks on a CD or USB flash drive to the AV control centre at least one session before they are due to be presented. **Speakers** scheduled for the **first morning sessions** (8.30–10.00am) **MUST** deliver their talks to the AV control centre on the previous afternoon between 1.00 and 5.00pm. Speakers scheduled for the **first afternoon sessions** (1.30–3.00pm) **MUST** deliver their talks to the AV Control Centre before lunchtime the day of their presentation.

DO NOT TAKE YOUR TALKS TO THE ROOM IN WHICH YOU ARE PRESENTING.

ALL TALKS MUST BE PRE LOADED ONTO THE CENTRAL SERVER IN THE AV CONTROL CENTRE.

YOU WILL NOT BE ABLE TO USE YOUR OWN LAPTOP TO PRESENT YOUR TALK.

The AV control centre room will be open 8.00am–5.00pm each day where there will be 4 computers available for speakers to check their presentations and check software compatibility. Please be sure to do this before you deliver your talk to one of the AV control centre technicians. Apple (Macintosh) users should verify that their files are compatible with PowerPoint or Adobe Acrobat for PC Windows. Both PCs and Macs will be available in the AV control centre, but only PCs will be available in each room.

Session Chairs

If you are chairing a session, please arrive approximately 10 minutes early to ensure that all presentations are ready, and that all presenters are accounted for. The Chair should alert speakers when 3 minutes remain, and, if necessary, when 1 minute remains. If time runs out, the speaker will be asked to leave the podium without taking questions. If a speaker finishes early or there is a cancellation, the Chair should not introduce the next speaker until their designated time to speak.

Internet Access during the Conference

An internet café comprising 8 PCs with high speed broadband internet access is located in the upper foyer area of the conference centre adjacent to the meeting break out rooms. This facility is designed for delegates to quickly check emails — it is not designed or suitable for lengthy internet browsing and the downloading of large files. Those delegates who have brought their own wireless enabled laptops will be able to connect to the Internet from a number of wireless hubs throughout the conference centre and Town Hall complex. Details on this wireless access are provided in your registration pack.

Transportation

There is no local transport organized specifically for this meeting – hotel accommodation has been selected within reasonably easy walking distance from the conference venue. Some hotels are right on (Millennium, Quest, Base Backpackers) or within a few minutes walk (Oaks, Stonehurst) of the route of a free shuttle bus service operated by the Christchurch City Council – the routes for this “Free Yellow Shuttle” bus are clearly marked in the foldout map of the Christchurch CBD included in your conference pack. This service operates as follows:

Saturday	every 10 minutes, 8.00am to 10.30pm
Sunday	every 10 minutes, 10.00am to 5.00pm
	every 15 minutes, 5.00pm to 8.00pm
Monday to Thursday	every 10 minutes, 7.30am to 7.00pm
	every 15 minutes, 7.00pm to 10.30pm
Friday	every 10 minutes, 7.30am to 10.30pm

Delegates in the Oaks on Cashel and Stonehurst wanting to catch this bus can do so by walking down Cashel St to Colombo St — cross Colombo St and use the closest clearly marked **Yellow Bus** stop. Make sure the bus you catch to get to the Convention Centre is heading towards Cathedral Square.

The stops for the Convention Centre are the corner of Colombo and Kilmore St and in Peterborough St. within close proximity to the rear Peterborough St entrance to the Convention Centre.

For delegates staying at the Holiday Inn on Avon, the hotel will operate its free shuttle bus to the Convention Centre each morning. If the weather is unsettled and walking is not a pleasant prospect, there may be too many delegates for the limited capacity of the hotel shuttle bus – we recommend mini van taxis be shared by delegates at a very low cost per person. All taxis can be ordered through the hotel concierge desk.

No transportation has been arranged for delegates returning from the conference centre to their hotels.

**When walking, please remember vehicles in New Zealand travel on the left hand side of the road – and in Christchurch there are several one way streets including Kilmore Street
BE VERY CAUTIOUS WHEN CROSSING STREETS
where possible cross at traffic lights**

Refreshment Breaks

Morning and afternoon refreshment breaks will be available each day Sunday, 17 June through Wednesday, 20 June. Morning breaks will be 10.00–10.30am and afternoon breaks 3.00–3.30pm. All delegates are entitled to lunch as part of their registration, each day Sunday through Wednesday. Lunch breaks will be 12.00–1.30pm.

All refreshments and lunches will be served in Halls A and B and in the ground floor foyer area in the Conference Centre.

Scientific Sessions

Scientific sessions will be held in break-out rooms 1-7 located on the upper level of the Conference Centre and in the James Hay Theatre, Limes Room, Cambridge Room, and Conference Rooms 1 & 2 located in the Town Hall complex located immediately across Kilmore Street from the Conference Centre. There is a connecting airbridge between the upper level of the Conference Centre and the Town Hall complex.

For your safety, please use the airbridge when crossing between the Town Hall and the Conference Centre.

Poster Display

The single organised poster session is scheduled for 8.30–11.30pm on Sunday, 17 June and will be held in Halls A, B and C in the Conference Centre (see map in your Conference Program). Each poster display panel is 1200 mm wide x 2300mm high. Panels for displaying posters are velcro hook receptive. Posters may be attached to the panels using velcro hook spots or by pins. A limited supply of velcro hook spots and pins will be available at the registration desk.

Posters can be displayed from 8.00am Sunday, 17 June and will remain on display for the duration of the conference. Please check the number assigned to your poster in the conference programme, and display it in the appropriately numbered display panel. Posters will need to be removed before 1.00pm on Wednesday, 20 June.

During the poster session, the presenting author should be standing by his/her poster

Coat Check Service

A coat check service provided by the venue will operate throughout the conference. Please ask at the registration/information desk for directions to this service.

Social Functions

All registered delegates plus spouse/partner/family members that have purchased tickets are entitled to attend the opening reception and ceremony. This will take place Saturday, 16 June in the ground floor foyer and Halls A and B in the Conference Centre commencing at 6.30pm. We encourage all to attend this important function which will feature a Maori challenge and welcome. Finger food plus a selection of New Zealand wines, beers and non-alcoholic beverages will be served. The function will close at 9.30pm. Dress: smart casual

The opening function has been generously co-sponsored by Blackwell Publishing (US) and Taylor & Francis Group. Their contributions are gratefully acknowledged.

On Monday evening a carvery/salad meal is available to all registered delegates and spouse/partner/family members that have purchased tickets. This meal will be served at 7.00pm in Halls A and B in the conference centre. A cash bar will operate from 6.00pm and throughout the evening. Light musical entertainment will be provided at this informal get together. Dress: casual

The awards banquet is to be held in Halls A, B and C of the Conference Centre on Wednesday evening June 20 commencing 6.30pm for 7.30pm. This function is limited to those that have purchased tickets at the time of their registration. A limited number of additional tickets for this event will be available at the registration desk for those wishing to attend (and who have not previously purchased tickets). These additional tickets will be issued on a first come basis and will only be available until midday on Monday. This event is planned to be one of the highlights of this conference and will include a cocktail period, the awards ceremony, a seated banquet and light musical and other entertainment. Dress: smart casual

Dining and Nightlife

There are no formal arrangements for breakfasts at this conference. Breakfast is NOT included in the hotel tariffs – there are numerous early opening coffee shops in the CBD that offer light breakfasts for delegates not wanting to use hotel dining services.

Lunches are provided each day for all delegates (see above).

A comprehensive list of restaurants in the CBD is available at the registration desk and also listed in the free visitor guide to Christchurch and Canterbury included in your satchel. We have deliberately scheduled Tuesday evening “free” to enable delegates to experience some of New Zealand’s finest eating establishments – please do so!!

Christchurch has a very active night life – there are many clubs and bars catering for all age groups and tastes scattered throughout the central city area – with a concentration of these along the Avon river in Oxford Street, known locally as “The Strip”.

Banking

There is an automated teller machine located on the ground floor in the Town Hall complex and other ATMs are scattered throughout the CBD usually located as part of a major bank. Banks in the CBD are open 9.00am to 4.30pm each week days. There is a bank open at the international airport for all international arrivals and departures. Currency exchange is available 7 days a week at the Christchurch i-SITE visitor centre in Cathedral Square which opens at 8.30am each day.

Medical Services and Emergency Numbers

The closest emergency medical service to the Convention Centre open 24/7 is The 24 Hour Medical Centre located on the corner of Colombo Street and Bealey Avenue – contact details are available at the Registration/Information desk. There are numerous pharmacies located throughout the CBD – again ask at the registration desk for details. Hotels can also advise on the closest pharmacies and emergency medical services.

For Police, Fire and Ambulance dial **111** and ask for the service

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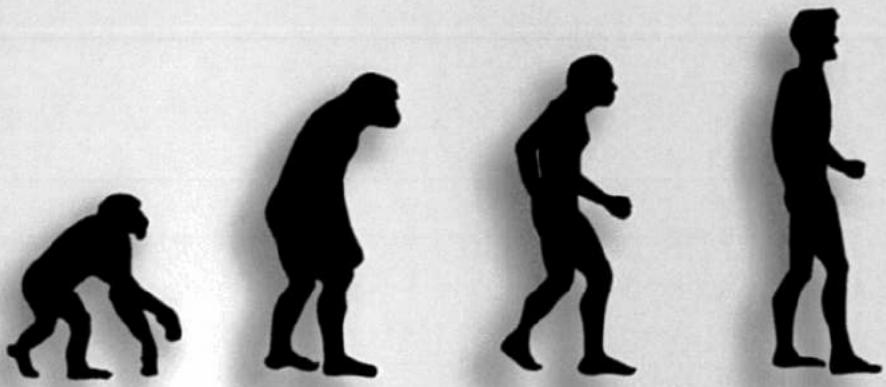
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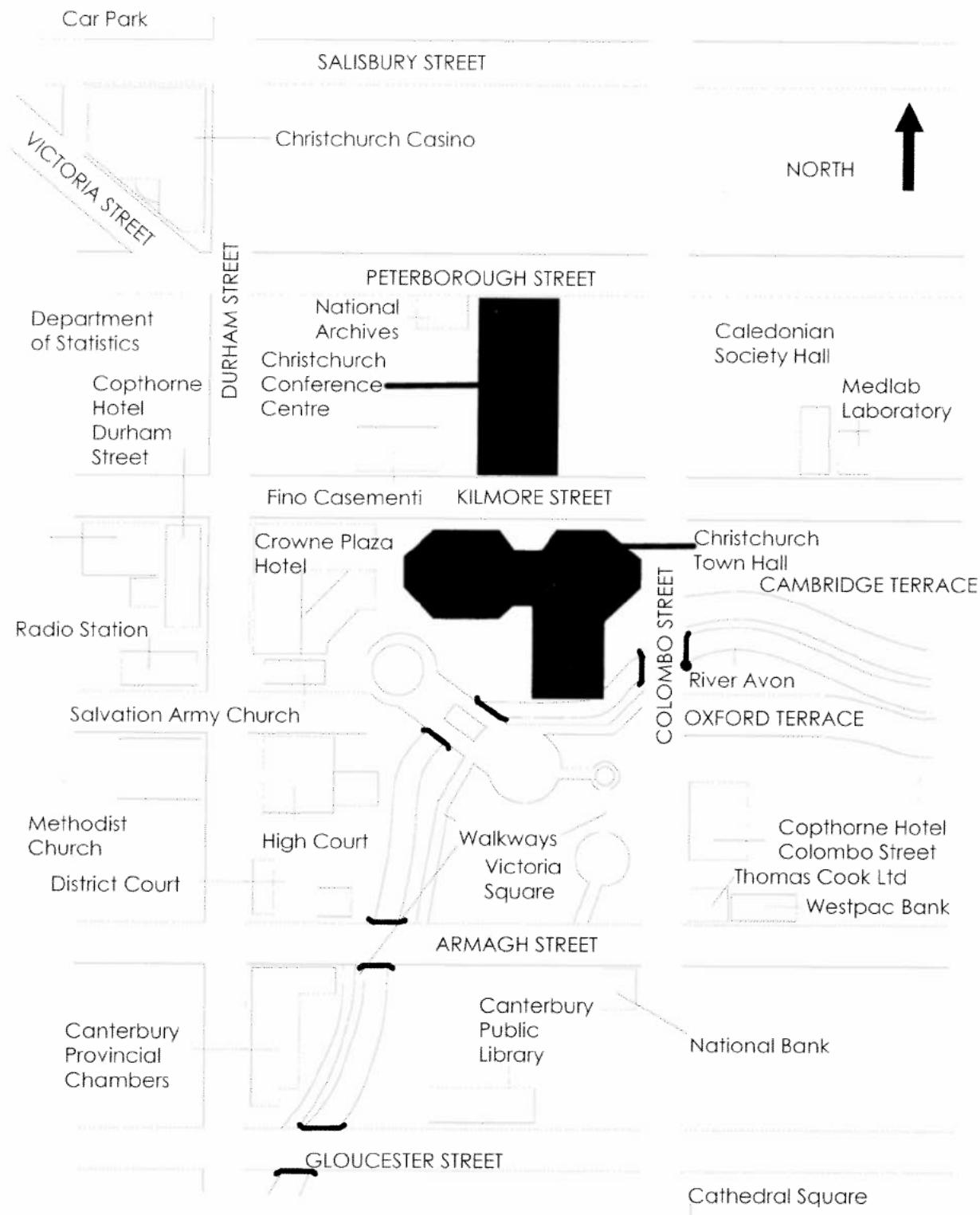
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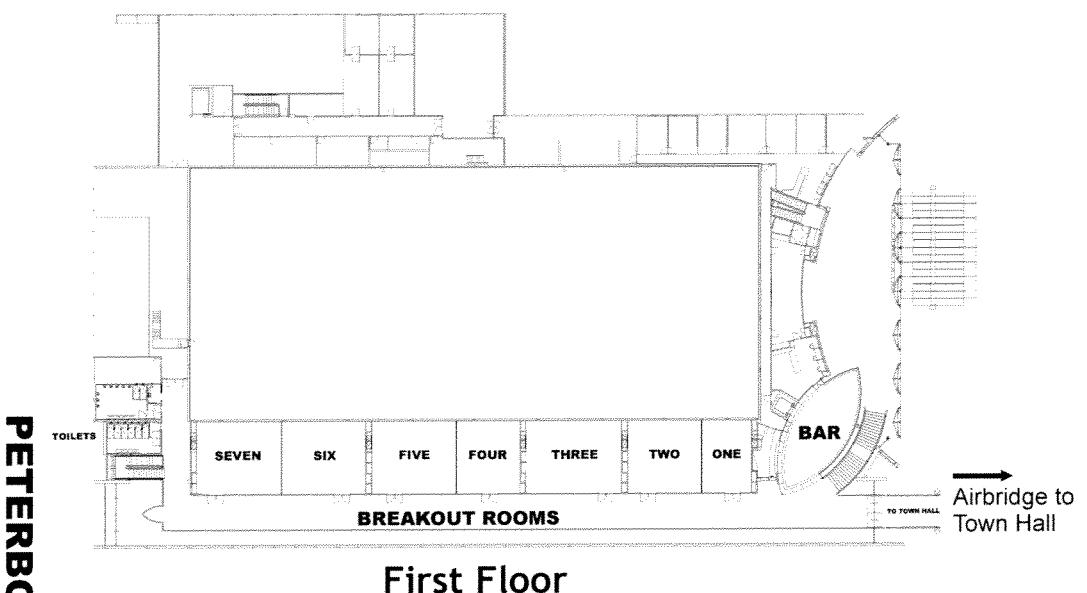
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Christchurch Convention Centre Precinct Plan

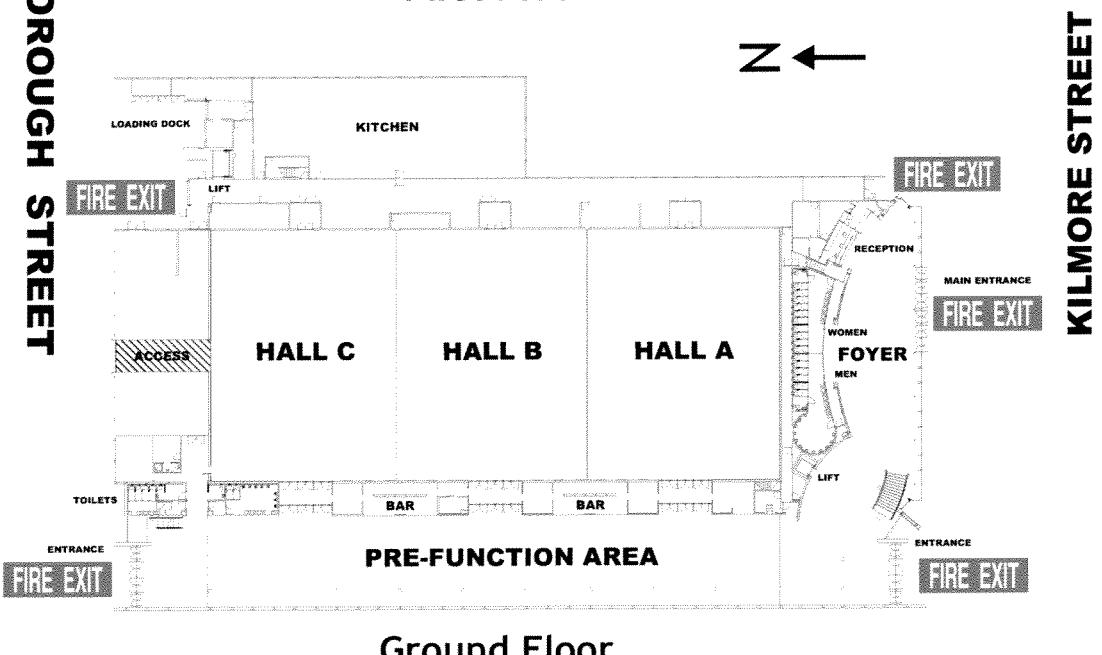


Christchurch Convention Centre Floor Plan

Conference Centre



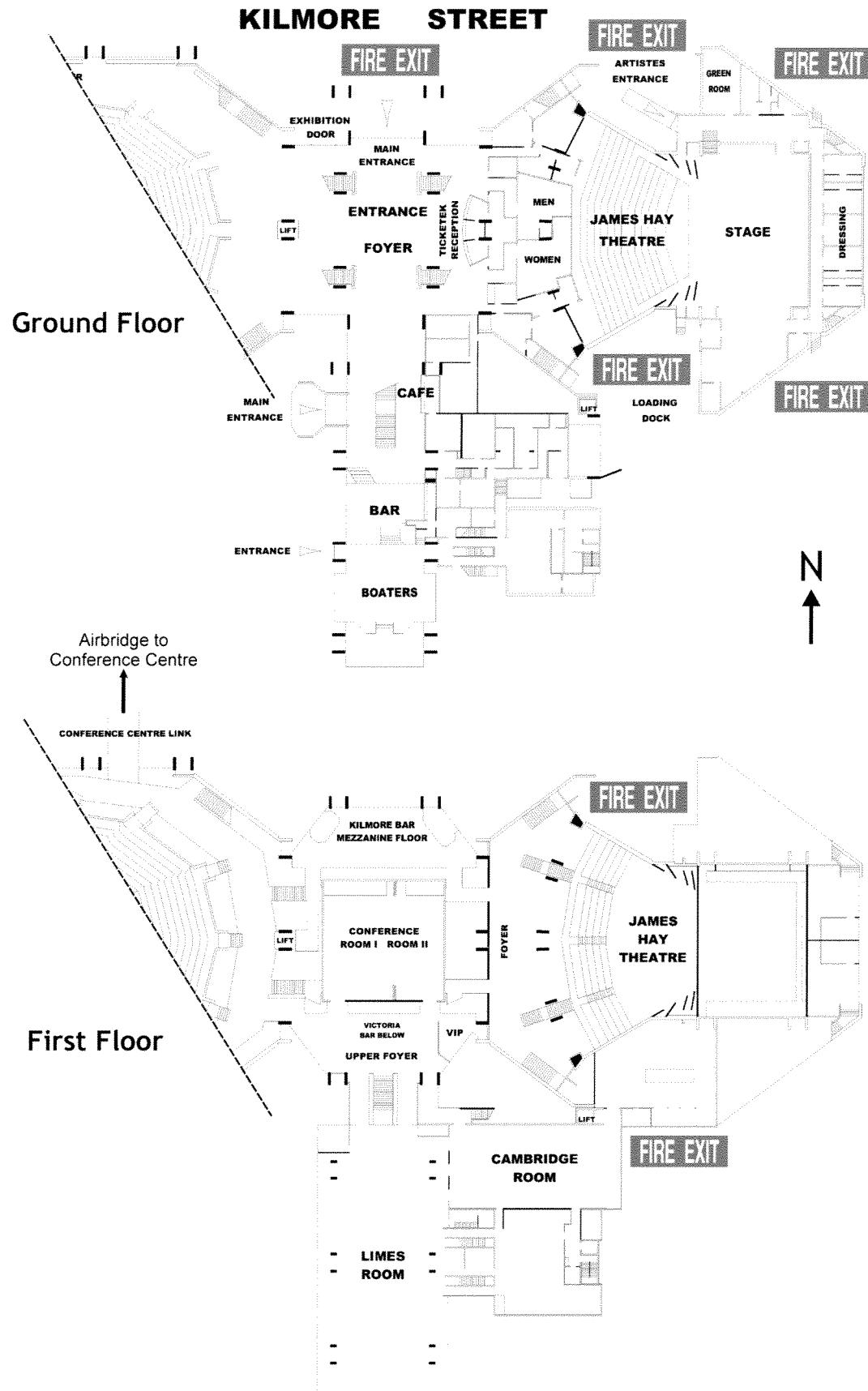
First Floor



Ground Floor

Christchurch Convention Centre Floor Plan

Town Hall



Sponsors, Exhibitors and Publishers

The organising committee is extremely grateful to the following sponsors and exhibitors that have supported Evolution 2007. Delegates are urged to take time to visit the exhibition booths and discuss with the company representatives, the range of products and services available from these exhibitors.

Saturday	5.00pm – 9.30pm
Sunday	8.30am – 5.00pm, 8.30 – 10.30pm
Monday	8.30am – 5.00pm
Tuesday	8.30am – 5.00pm
Wednesday	8.30am – 12.30pm

Major Sponsors

**Canterbury
Events Fund**



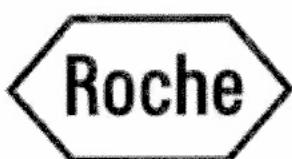
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Booth 8

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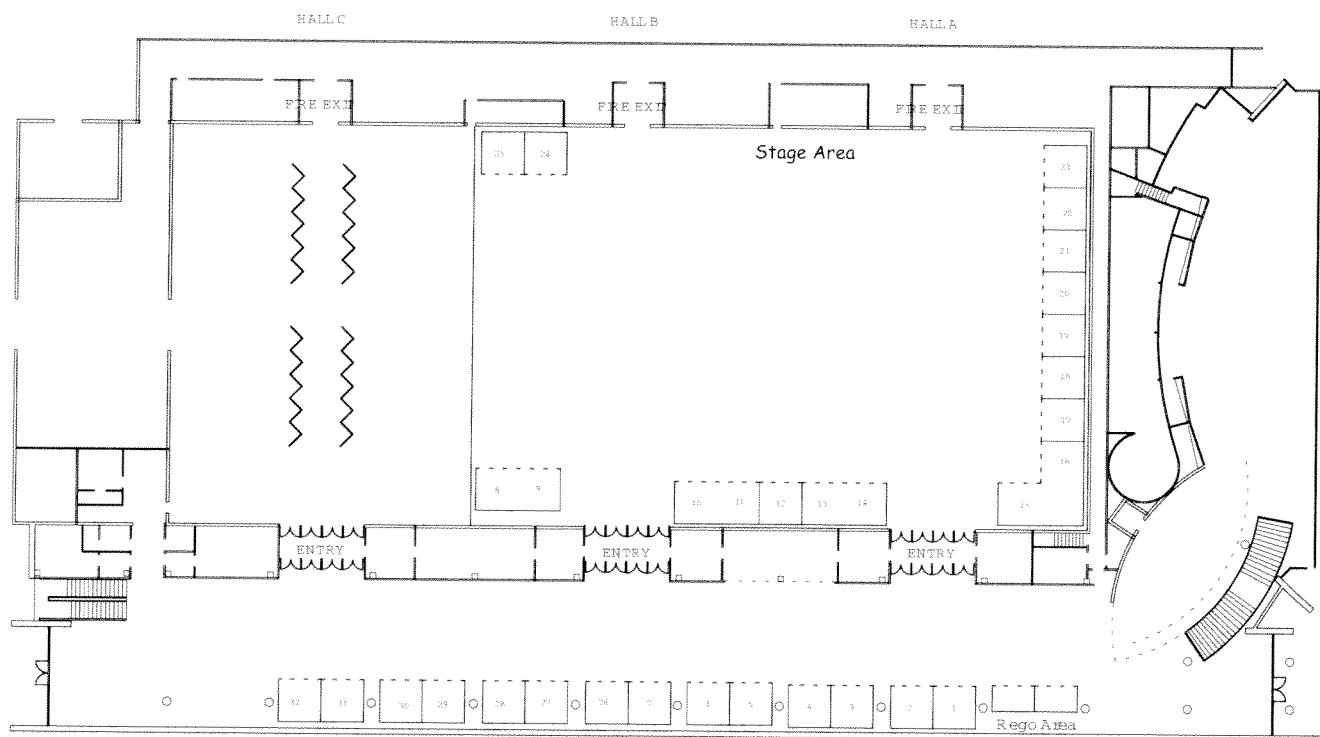
Exhibitors

Booth #	Exhibitor
27	Airpro Scientific Ltd
24	Applied Biosystems
19	Biolab Ltd
20	Biomatters Ltd
17	Bio-Strategy
12	Cambridge University Press
3	CSIRO Publishing
26	DKSH New Zealand Ltd
9	Gene Works Pty Ltd
30	Global Science & Technology Ltd
4	LandCare Research
29	Medica Pacifica Ltd
5	National Evolutionary Synthesis Center (NESCENT)

Booth #	Exhibitor
22	Ngaio Diagnostics Ltd
31	NZ Scientific Ltd
23	Pacific Laboratory Products
28	Princeton University Press
1	Roberts and Company Publishing
21	Royal Society Publications
28	Springer
7	Taylor and Francis Publishers
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28	University of California Press
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Christchurch Convention Centre Floor Plan

Halls A, B and C





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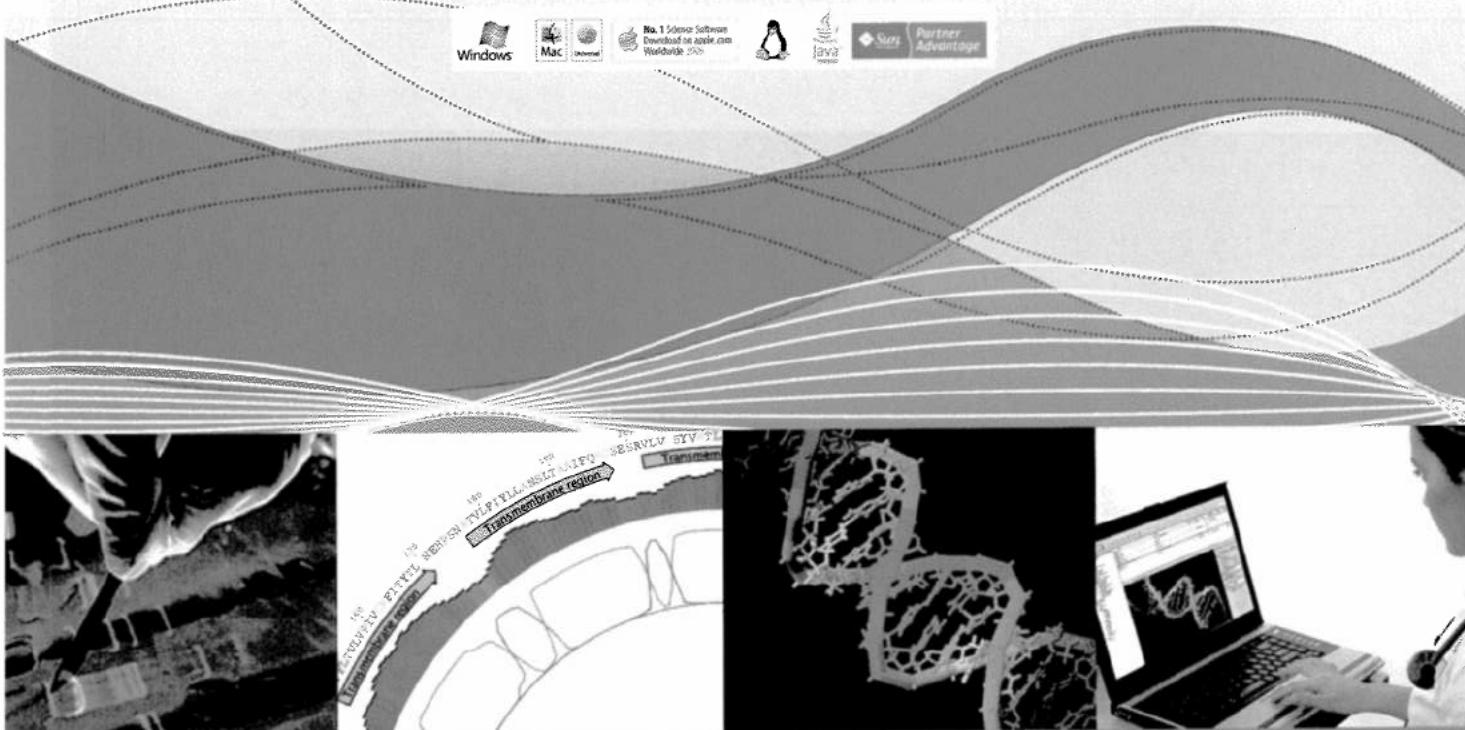
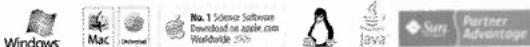
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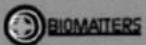
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Algae of Australia: Introduction

ABRS

This introductory volume includes essays on the history of research on Australian algae, their classification, fossil record, systematic relationships, ecology, biogeography and economic significance. Keys to the identification of the orders of algae are accompanied by an extensive bibliography and 29 synoptic chapters.

2007 - CSIRO PUBLISHING/ABRS - 744 pages
Hardback - 9780643093775 - \$180.00

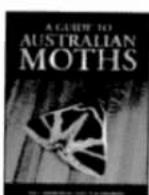


A Guide to Australian Moths

Paul Zborowski & Ted Edwards

With striking colour photographs of live moths in their natural habitat, this guide illustrates all the major moth families in Australia, including some rarely seen species. *A Guide to Australian Moths* highlights the environmental role of moths, their relationships with other animals and plants, and their importance to humans.

May 2007 - CSIRO PUBLISHING - 224 pages
Paperback - 9780643091597 - \$39.95

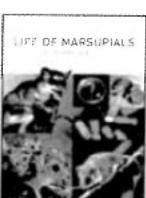


Life of Marsupials

Hugh Tyndale-Biscoe

Over the past 50 years research has revealed that marsupials have adaptations for particular ways of life quite equal to their placental counterparts. In *Life of Marsupials*, one of the world's leading experts explores the biology and evolution of this unusual group – with their extraordinary diversity of forms – in Australia, New Guinea and South America.

2005 - CSIRO PUBLISHING - 464 pages
Hardback - 0643062572 - \$99.95



Shorebirds of Australia

Andrew Geering, Lindsay Agnew & Sandra Harding

Shorebirds of Australia brings together the latest information about the evolution, ecology and behaviour of shorebirds and how they are distributed in Australia. Complete with colour photographs and up-to-date distribution maps, it provides descriptions and tips to assist with the identification of all species of shorebird in Australia, which comprise about 10 per cent of Australia's total avifauna.

June 2007 - CSIRO PUBLISHING - 256 pages
Paperback - 9780643092266 - \$49.95



Why Does the World Stay Green?

Nutrition and Survival of Plant-eaters

TCR White

The concept explored in this book contends that animals are not controlled through predation but because plants have outwitted them, they cannot obtain enough of the food they must have to reproduce and grow. It is fascinating and easy-reading for anyone interested in natural history.

2005 - CSIRO PUBLISHING - 128 pages
Paperback - 0643091580 - \$29.95



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Volume 55, 2007 - 6 issues
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Australian Systematic Botany publishes papers of high-quality original research, including critical reviews. The journal aims to advance systematic botany and related aspects of biogeography and evolution of all plant groups, including fossils.

Volume 20, 2007 - 6 issues
ISSN: 1030-1887 - Impact Factor: 1.162
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Emu – Austral Ornithology

Publication of the Royal Australian Ornithologists Union

Emu – Austral Ornithology is a major journal for the publication of research articles and reviews in all branches of ornithology in the Southern Hemisphere.

Volume 107, 2007 - 4 issues
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Invertebrate Systematics

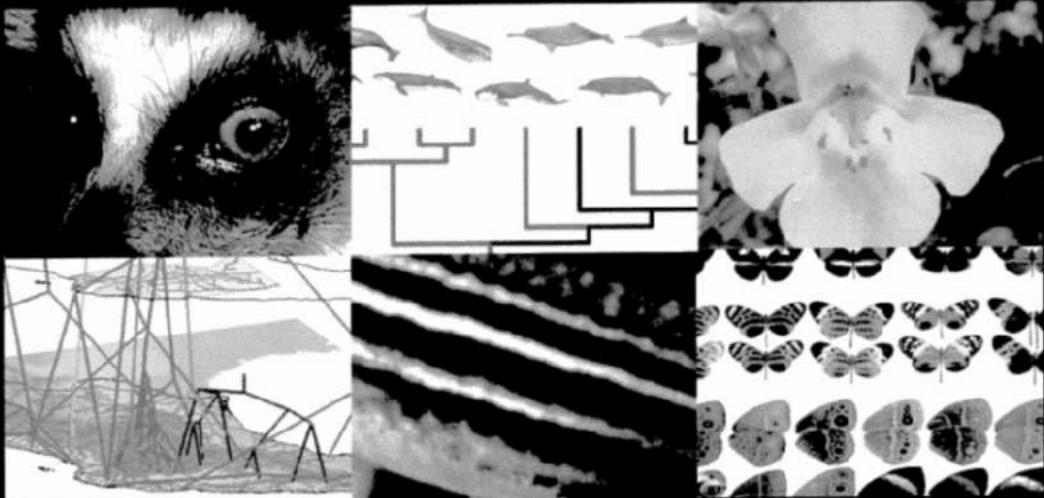
Systematics and phylogeny of invertebrate faunas

Invertebrate Systematics is an international journal publishing significant contributions and reviews on the systematics and phylogeny of invertebrate faunas worldwide. The focus is on multidisciplinary and comprehensive papers that include phylogenetic and biogeographic analyses.

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NESCent

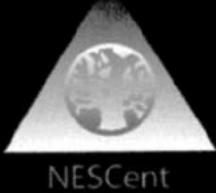


National Evolutionary Synthesis Center

NESCent sponsors activities leading to cross-disciplinary synthesis in evolutionary biology. Our major programs include:

- Support of in-house postdoctoral fellowships and faculty sabbaticals.
- Informatics programs that provide hands-on support for scientists seeking to develop or use databases and software for evolutionary synthesis and analysis. The center also works to develop and disseminate the next generation of tools for data sharing and software integration in evolutionary biology.
- Sponsorship of a variety of meetings that address major questions in evolutionary biology. Working groups collaborate to construct and analyze databases or synthesize models. Cross-disciplinary catalysis meetings bring together scientists for synthesis across fields.
- Education and outreach activities that promote the teaching, learning, and research of evolution by working with the education and scientific communities, as well as the general public.

www.nescent.org
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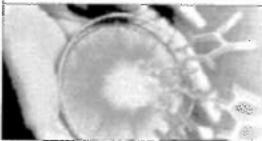
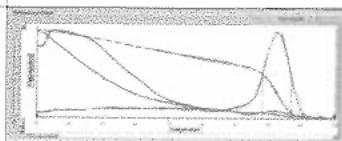
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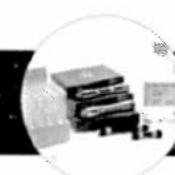
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Programme Overview

Saturday, 16 June

Pre-conference tours will run all day. Exhibitor pack-in/set up is from 12.00–5.30pm.

Administration	Society Meetings	Special Events	Symposia	Concurrent Sessions
8.00am				
8.30am				
9.00am				
9.30am				
10.00am				
10.30am				
11.00am		JOINT COUNCIL MEETING (Breakout Room 1)		
11.30am				
12.00pm	REGISTRATION (Convention Centre, Ground Floor Foyer)			
12.30pm				
1.00pm				
1.30pm				
2.00pm		SSE COUNCIL MEETING (Breakout Room 1)		
2.30pm				
3.00pm		ASN COUNCIL MEETING (Breakout Room 2)		
3.30pm				
4.00pm		SSB COUNCIL MEETING (Breakout Room 3)		
4.30pm				
5.00pm				
5.30pm				
6.00pm				
6.30pm		OPENING RECEPTION (Halls A, B and C, then James Hay Theatre) <i>Co-sponsored by Blackwell Publishing (US) and Taylor & Francis Group</i>		
7.00pm				
7.30pm				
8.00pm				
8.30pm				
9.00pm				

Sunday, 17 June

	Administration	Society Meetings	Special Events	Symposia	Concurrent Sessions				
8.00am									
8.30am									
9.00am									
9.30am									
10.00am									
10.30am									
11.00am									
11.30am									
12.00pm	REGISTRATION AND INFORMATION (Convention Centre, Ground Floor Foyer)	MEETING FOR SYSTEMATIC BIOLOGY ASSOCIATE EDITORS (Board Room)	WORKSHOP "HOW TO GET AN ACADEMIC JOB IN BIOLOGY FOR POSTDOCS AND GRADUATE STUDENTS" (Limes Room)	<u>SSB SYMPOSIUM: CULTURAL PHYLOGENETICS</u> (James Hay Theatre)	See p. 45				
12.30pm									
1.00pm									
1.30pm									
2.00pm									
2.30pm									
3.00pm									
3.30pm									
4.00pm									
4.30pm									
5.00pm									
5.30pm									
6.00pm									
6.30pm	SSB BUSINESS MEETING (James Hay Theatre)								
7.00pm									
7.30pm									
8.00pm									
8.30pm									
9.00pm			POSTER SESSION (Halls A, B and C)						
9.30pm									
10.00pm									
10.30pm									

Monday, 18 June

Administration	Society Meetings	Special Events	Symposia	Concurrent Sessions
8.00am	REGISTRATION AND INFORMATION (Convention Centre, Ground Floor Foyer)			
8.30am			<u>SSE SYMPOSIUM:</u> ECOLOGICAL GENOMICS (James Hay Theatre)	See p. 45
9.00am				
9.30am				
10.00am				Coffee Break
10.30am				
11.00am				
11.30am				
12.00pm				
12.30pm		AMERICAN NATURALIST EDITORIAL BOARD MEETING (Board Room)	NSF FUNDING OPPORTUNITIES SEMINAR (Limes Room)	
1.00pm				
1.30pm			<u>SSE SYMPOSIUM:</u> ECOLOGICAL GENOMICS (James Hay Theatre)	See p. 45
2.00pm				
2.30pm				
3.00pm				Coffee Break
3.30pm				
4.00pm				
4.30pm			FISHER PRIZE LECTURE (JHT)	
5.00pm			ASN PRESIDENTIAL ADDRESS (James Hay Theatre)	
5.30pm				
6.00pm		ASN BUSINESS MEETING (James Hay Theatre)		
6.30pm				
7.00pm				
7.30pm				
8.00pm			CARVERY AND SALADS; INFORMAL GATHERING (Halls A, B and C)	
8.30pm				
9.00pm				
9.30pm				
10.00pm				
10.30pm				

Tuesday, 19 June

Administration	Society Meetings	Special Events	Symposia	Concurrent Sessions
8.00am	REGISTRATION AND INFORMATION (Convention Centre, Ground Floor Foyer)	<i>EVOLUTION</i> EDITORIAL BOARD MEETING (Board Room)	<u>ASN VP</u> <u>SYMPORIUM:</u> GENETICS OF COLONIZING SPECIES (James Hay Theatre)	<i>Coffee Break</i> <i>See p. 46</i>
8.30am				
9.00am			<u>ASN VP</u> <u>SYMPORIUM:</u> GENETICS OF COLONIZING SPECIES (James Hay Theatre)	<i>Lunch</i> <i>See p. 46</i>
9.30am				
10.00am			<u>SSE EDUCATION</u> <u>SYMPORIUM:</u> TEACHING EVOLUTION (James Hay Theatre)	<i>Coffee Break</i> <i>See p. 46</i>
10.30am				
11.00am			<u>SSE EDUCATION</u> <u>SYMPORIUM:</u> TEACHING EVOLUTION (James Hay Theatre)	<i>Coffee Break</i> <i>See p. 46</i>
11.30am				
12.00pm			<u>SSE PUBLIC</u> <u>OUTREACH LECTURE</u> (James Hay Theatre)	
12.30pm				
1.00pm			<u>SSE PRESIDENTIAL</u> <u>ADDRESS</u> (James Hay Theatre)	
1.30pm				
2.00pm			<u>SSE BUSINESS</u> <u>MEETING</u> (James Hay Theatre)	
2.30pm				
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Wednesday, 20 June

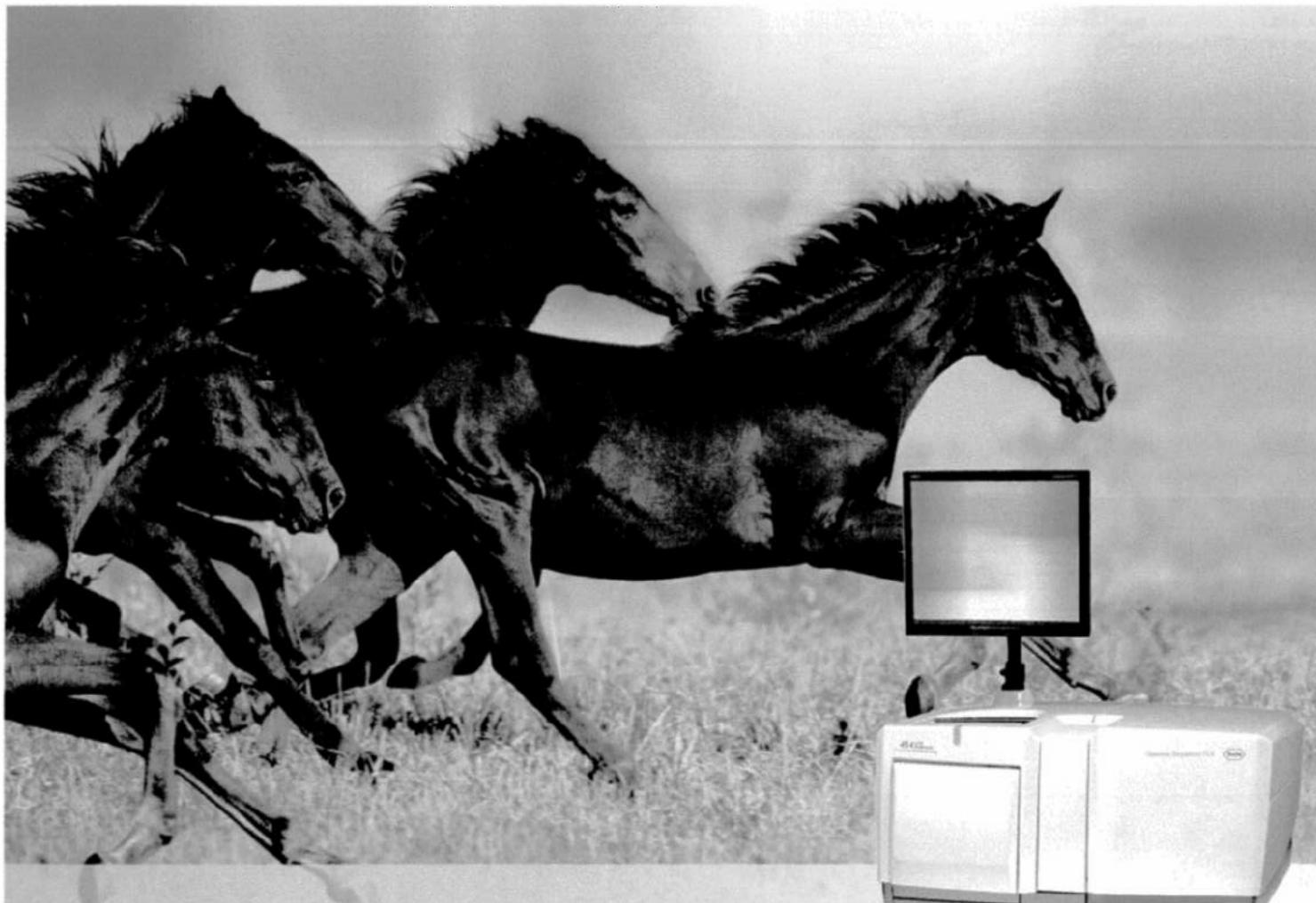
Administration	Society Meetings	Special Events	Symposia	Concurrent Sessions
8.00am				
8.30am				
9.00am				
9.30am				
10.00am				
10.30am				
11.00am				
11.30am				
12.00pm	REGISTRATION AND INFORMATION (Convention Centre, Ground Floor Foyer)	JOINT COUNCIL MEETING — EXIT MEETING (Board Room)		Coffee Break
12.30pm				
1.00pm				
1.30pm			DOBZHANSKY PRIZE WINNER LECTURE (James Hay Theatre)	
2.00pm				
2.30pm				YOUNG INVESTIGATORS (JHT)
3.00pm				
3.30pm				Coffee Break
4.00pm				
4.30pm				ASN SYMPOSIUM: YOUNG INVESTIGATORS (James Hay Theatre)
5.00pm	SSE COUNCIL MEETING*; ASN COUNCIL MEETING*; SSB COUNCIL MEETING*	CONFERENCE BANQUET AND AWARDS PRESENTATION (Halls A, B and C)	ALLAN WILSON DVD (JHT)	
5.30pm				
6.00pm				
6.30pm				
7.00pm				
7.30pm				
8.00pm				
8.30pm				
9.00pm				
9.30pm				
10.00pm				
10.30pm				
11.00pm				

*The SSE Council Meeting will be in the Board Room. The venues for the ASN and SSB Council Meetings will be advised.

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Special Events

Sunday, 17 June

- 12.00-1.30pm **HOW TO GET AN ACADEMIC JOB IN BIOLOGY FOR POSTDOCS AND GRADUATE STUDENTS**
Venue: Limes Room

Coordinators: *Lorne Wolfe, Georgia Southern University*
Daniel Promislow, University of Georgia

- 5.00-6.00pm **SSB PRESIDENTIAL ADDRESS**
Venue: James Hay Theatre
- Phylogenomics: what is the contribution of the SSB?
SCOTT V. EDWARDS
Harvard University

Monday, 18 June

- 12.30-1.30pm **NSF FUNDING OPPORTUNITIES**
Venue: Limes Room

Samuel M. Scheiner

- 4.30-5.00pm **FISHER PRIZE LECTURE**
Venue: James Hay Theatre
- Predicting long term adaptation in model organisms
GUILLAUME MARTIN AND THOMAS LENORMAND
CNRS, France

- 5.00-6.00pm **ASN PRESIDENTIAL ADDRESS**
Venue: James Hay Theatre
- Reflections on the unification of ecology and evolution: new dances on an old dance floor
ROBERT D. HOLT
University of Florida

Tuesday, 19 June

5.00-6.00pm

SSE PUBLIC OUTREACH LECTURE

Venue: James Hay Theatre

*Coordinators: Thomas R. Meagher, University of St Andrews
Robert T. Pennock, Michigan State University*

Evolution, natural history and the web

CHARLES GODFRAY

University of Oxford

At the heart of evolutionary biology lies the description of biodiversity and the working out of the relationships between living organisms. The way we classify plants, animals and other living things dates back to Linnaeus, whose 300th birthday we celebrate this year. This is a good time to take stock of the field, especially as the need to study and understand biodiversity is greater now than ever before. I will explore how molecular biology and modern information technology (such as the web) can help this endeavour. I will also argue that the study of biodiversity needs to recruit many more non-professional biologists, and that the web offers a way of empowering these "citizen scientists".

6.00-7.00pm

SSE PRESIDENTIAL ADDRESS

Venue: James Hay Theatre

Trading twigs on the Tree of Life

DONALD M. WALLER

University of Wisconsin

Wednesday, 20 June

1.30-2.30pm

DOBZHANSKY PRIZE WINNER LECTURE

Venue: James Hay Theatre

Somatic evolution of cancer

FRANZISKA MICHOR

Harvard University

5.00-5.30pm

DOCUMENTARY PREVIEW: ALLAN WILSON: INNOVATOR OF SCIENCE

Venue: James Hay Theatre

Producer: George Andrews

The Allan Wilson Centre is proud to present a preview of the documentary now nearing completion on the career and extraordinary contribution to molecular evolution of the late Allan Wilson, which has been commissioned by the University of California, Berkeley. David Penny of the Allan Wilson Centre will introduce this work-in-progress, which features tributes from Vince Sarich, Mary-Clare King, Rebecca Cann, and Svante Pääbo, among other former students and colleagues of Allan.

ASN, SSB and SSE Meetings

Saturday, 16 June

11.00am-2.00pm JOINT COUNCIL MEETING

Venue: Breakout Room 1

2.00-5.30pm SSE COUNCIL MEETING

Venue: Breakout Room 1

2.00-5.30pm ASN COUNCIL MEETING

Venue: Breakout Room 2

2.00-5.30pm SSB COUNCIL MEETING

Venue: Breakout Room 3

Sunday, 17 June

12.00-1.30pm MEETING FOR SYSTEMATIC BIOLOGY ASSOCIATE EDITORS

Venue: Board Room

6.00-7.00pm SSB BUSINESS MEETING

Venue: James Hay Theatre

Monday, 18 June

12.00-1.30pm MEETING FOR AMERICAN NATURALIST EDITORIAL BOARD

Venue: Board Room

6.00-7.00pm ASN BUSINESS MEETING

Venue: James Hay Theatre

Tuesday, 19 June

12.00-1.30pm **MEETING FOR *EVOLUTION* EDITORIAL BOARD**
Venue: Board Room

7.00-8.00pm **SSE BUSINESS MEETING**
Venue: James Hay Theatre

Wednesday, 20 June

12.00-1.30pm **JOINT COUNCIL MEETING — EXIT MEETING**
Venue: Board Room

5.00-6.00pm **SSE COUNCIL MEETING**
Venue: Board Room

5.00-6.00pm **ASN COUNCIL MEETING**
Venue: TBA

5.00-6.00pm **SSB COUNCIL MEETING**
Venue: TBA

Symposia

Please refer to the detailed programme (pp. 48–76) for individual speaking times.

Sunday, 17 June

SSB SYMPOSIUM

CULTURAL PHYLOGENETICS: DISPATCHES FROM THE FRONTIER

Venue: *James Hay Theatre*
Time: *8.30–10.00am and 10.30am–12.00pm*

Coordinators: *Russell D. Gray, University of Auckland*
Fiona Jordan, University College London

Introduction: Cultural phylogenetics

FIONA JORDAN
University College London

Spoken word frequency predicts rates of lexical evolution throughout Indo-European language history

MARK PAGEL
University of Reading

Tongues and trees: phylogenetic tests of agricultural dispersals in the Americas

RUSSELL D. GRAY, QUENTIN D. ATKINSON AND LYLE CAMPBELL
University of Auckland

Pacific settlement and the evolution of Austronesian languages

SIMON J. GREENHILL
University of Auckland

Coevolution of structural features of language

MICHAEL DUNN
Max Planck Institut Psycholinguistics, Nijmegen

Matriliney and male absence: natural selection or nice story?

FIONA JORDAN AND RUTH MACE
University College London

The mode and tempo of linguistic evolution

QUENTIN D. ATKINSON AND MARK PAGEL
University of Reading

Sunday, 17 June

SSE SYMPOSIUM

TRIBUTE TO DAVID LLOYD'S RESEARCH ON REPRODUCTIVE STRATEGIES: HIS INSIGHTS AND THEIR ONGOING IMPACT

Venue: *James Hay Theatre*
Time: *1.30–3.00pm and 3.30–5.00pm*

Coordinators: *Lynda F. Delph, Indiana University*
Curtis M. Lively, Indiana University

Introduction: Tribute to David Lloyd's research on reproductive strategies

LYNDA F. DELPH
Indiana University

A Lloydian perspective on the evolution and function of heterostylous sexual systems

SPENCER C.H. BARRETT AND KATHRYN A. HODGINS
University of Toronto

David Lloyd and the ecological context of breeding-system evolution

MAIA F. BAILEY
Indiana University

Biological enemies, variation strategies, and the cost and persistence of sex

CURTIS M. LIVELY
Indiana University

Special features of the New Zealand flora

ALASTAIR W. ROBERTSON
Massey University

David Lloyd and mating-system evolution in Leavenworthia

DANIEL SCHOEN AND JEREMIAH W. BUSCH
McGill University

Quantitative plant gender — the insight of David Lloyd

GLEND A. VAUGHTON AND MIKE RAMSEY
University of New England

Monday, 18 June

SSE SYMPOSIUM

ECOLOGICAL GENOMICS OF MODEL EUKARYOTES

Venue: James Hay Theatre

Time: 8.30–10.00am, 10.30am–12.00pm and 1.30–3.00pm

Coordinators: John McKay, Colorado State University

John R. Stinchcombe, University of Toronto

Ecological genetics of drought adaptation in *Arabidopsis thaliana*

JOHN MCKAY

Colorado State University

A genomic view of the evolution of host specialization and its consequences

CORBIN D. JONES

University of North Carolina

Wild *C. elegans*: complex genetics in simple worms

MATT W. ROCKMAN

Princeton University

Evolutionary genomics in an emerging model system: speciation and adaptation in *Mimulus*

LILA FISHMAN

University of Montana

Ecological genomics in natural populations of mice

HOPI HOEKSTRA

Harvard University

Evolutionary genetics of *Daphnia*

BRIAN EADS

Indiana University

Evolutionary analysis of genes underlying human variation

MATT HAHN

Indiana University

The genetic architecture of thermotolerance in *Drosophila*

THEODORE J. MORGAN, MARY ANNA CARBONE, JULIEN AYROLES AND TRUDY F.C. MACKAY

Kansas State University

Ecological genetics of photoperiod sensitivity in *Arabidopsis thaliana*

JOHN R. STINCHCOMBE

University of Toronto

Tuesday, 19 June

ASN VICE-PRESIDENTIAL SYMPOSIUM **THE GENETICS OF COLONIZING SPECIES**

Venue: James Hay Theatre
Time: 8.30–10.00am and 10.30am–12.00pm

Coordinator: Trevor Price, University of Chicago

Evolution of behavioral integration and colonization of a novel environment

RENEE DUCKWORTH

University of Edinburgh

The role of rapid adaptive evolution and plasticity during plant invasions:
common garden experiments using St. John's Wort, *Hypericum perforatum*

JOHN MARON AND MONTSERRAT VILA

University of Montana

The evolution of dispersal during range-expansion: cane toads and the conquest
of northern Australia

BEN PHILLIPS

University of Sydney

The role of phenotypic plasticity and natural selection in the successful
establishment of a population in a novel environment

TREVOR PRICE

University of Chicago

Does a big brain matter when invading novel environments?

DANIEL SOL

Ctr. Ecological Research & Appl. Forestries, Spain

Behavioral mechanisms of invasion success in social species

ANDREW V. SUAREZ, DAVID HOLWAY AND NEIL TSUTSUI

University of Illinois at Urbana

Tuesday, 19 June

SSE EDUCATION SYMPOSIUM

AN INTERNATIONAL PERSPECTIVE ON TEACHING EVOLUTION

Venue: James Hay Theatre

Time: 1.30–3.00pm and 3.30–5.00pm

Coordinator: Thomas R. Meagher, University of St Andrews

Recent international surveys have shown that public acceptance of evolution varies dramatically across national boundaries, with potential impacts on how evolution is taught in different countries. This session will explore undergraduate teaching of evolution in different national contexts, concluding with an open panel discussion in which the audience can contribute to the comparative discussion.

Extreme evolution: contrasting the US and the UK

THOMAS R. MEAGHER

University of St Andrews

What really happens in class - a survey of the US and Canada

ELIZABETH ELLE

Simon Fraser University

Comparative perspectives on teaching evolution

PAUL B. RAINY

University of Auckland

How students are prepared for college: a comparative analysis of secondary teaching of evolution

LOUISE S. MEAD

National Center for Science Education, USA

Teaching first-year biology: an evolutionary approach

SPENCER C. H. BARRETT

University of Toronto

Panel discussion

Chair: **LOUISE MEAD**

National Center for Science Education, USA

Wednesday, 20 June

SSB SYMPOSIUM

PHYLOGENETIC DIVERSITY: TOWARDS A SYNTHESIS OF CONCEPTS AND APPLICATIONS FOR BIODIVERSITY CONSERVATION

Venue: James Hay Theatre
Time: 8.30–10.00am and 10.30am–12.00pm

Coordinators: Dan Faith, Australian Museum
Arne Mooers, Simon Fraser University

Phylogenetic diversity and conservation: problems and prospects

DAN FAITH
Australian Museum

Links between phylogenetic diversity and evolutionary distinctiveness

ARNE O. MOOERS, DAVID W. REDDING, KLAAS HARTMANN, MIKE STEEL, WAYNE P. MADDISON
Simon Fraser University

Measuring phylogenetic diversity and originality with quadratic entropy

SANDRINE PAVOINE
Museum National d'Histoire Naturelle, Paris

Phylogenetic diversity theory and computational challenges

MIKE STEEL
Allan Wilson Centre, Biomathematics Research Centre, University of Canterbury

Towards practical phylogenetic diversity analyses for conservation biologists

DAN F. ROSAUE AND SHAWN W. LAFFAN
University of New South Wales

Phylogenetic diversity at the mesoscale in South Africa

VINCENT SAVOLAINEN, FELIX FOREST AND RICH GRENYER
Jodrell Laboratory, Kew Gardens

Conservation prioritization and climate change impacts on the phylogenetic diversity of endemic rainforest flora and fauna

SUSAN E. CAMERON
University of California, Davis

Phylogenetic diversity at the community level: some results and prospects

MICHAEL J. DONOGHUE
Peabody Museum, Yale University

Wednesday, 20 June

ASN SYMPOSIUM **YOUNG INVESTIGATORS**

Venue: James Hay Theatre
Time: 2.30–3.00pm and 3.30–5.00pm

Coordinator: Robert D. Holt, University of Florida

The evolution of spite

ANDY GARDNER
University of Edinburgh

Investigating the selective value of sex and recombination

MAURINE NEIMAN
University of St. Thomas

Speciation by one allele, one ovule, and one environment

DANIEL ORTIZ-BARRIENTOS
University of British Columbia

Turnover of sex chromosomes induced by sexual conflict

G. SANDER VAN DOORN AND MARK KIRKPATRICK
Santa Fe Institute

Undergraduate Diversity at SSE/SSB

For the past five years, a grant from the US National Science Foundation has supported the travel of undergraduates from diverse backgrounds to the annual Evolution meetings. From 2002-2006, 15-20 US undergraduates experienced for the first time the thrill of presenting their data in posters at a national meeting, and being mentored by graduate students, postdocs and faculty in the nuances of evolutionary biology. These students also attended a undergraduate-wide 'peptalk' designed to expose them to the diversity of careers available to them with graduate training in evolutionary biology, as well as advice on how to navigate the myriad challenges and opportunities of graduate schools.

This year's program continues this tradition albeit on a much smaller scale, both because the grant period was winding down and because of the travel costs associated with attending the New Zealand meetings. The remaining funds on the grant allowed us to make awards to three undergraduates, although only two were able to accept. Their names are (* indicates attendance at this year's meeting): **Marjorie Linares*** (University of New Orleans), **Nancy Chen*** (Harvard University) and **Princess Gilbert** (University of California Los Angeles). The application consisted of an abstract of their poster to be presented, a statement of their reasons for wanting to attend the meetings, and a letter of recommendation from their advisors. We congratulate these three students and are excited to be promoting increased diversity at the undergraduate level at the annual Evolution meetings. Take a moment to seek out Marjorie and Nancy at the poster session!

Because of the small number of students in this year's program, we will not hold a formal Diversity Social Event (often a highlight of the meetings) or a Peptalk, nor have a mentoring program. Nonetheless Richard Kliman (Cedar Crest College) and I plan to apply for renewal of our grant that will continue bringing a talented and diverse pool of undergraduates to the meetings next year in Minnesota and beyond. In addition we plan to coordinate undergraduate recruitment and outreach efforts with the National Evolutionary Synthesis Center (NESCent) through Associate Director for Education and Outreach Greg Gibson. Keep an eye out for the program in upcoming years and please let us know if you would like to get involved as a mentor. This and other programs are a great way to sustain the field, diversify tomorrow's faculty and scientific workforce and encourage a diverse cohort of students to consider evolutionary biology in their careers.

Scott V. Edwards

Harvard University

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The image is a composite of several elements. At the top is a map of Australia and New Zealand with a network of lines and dots representing connectivity. Below this is a woman wearing a lab coat and safety glasses, looking directly at the camera while holding a small test tube. To the left of the woman is a computer monitor displaying the GeneWorks website. The website has a navigation bar with links like 'Home', 'About', 'Help', etc., and a main section titled 'Products & Services' with categories like 'Sample Preparation', 'Expression & Genetic Analysis', 'Sample Handling and Storage', and 'Services'. A sidebar on the right of the website shows 'Upcoming Events' and 'Exhibited with ordering for GeneWorks Co.' Below the monitor, the word 'TAGTA' is partially visible in large letters.

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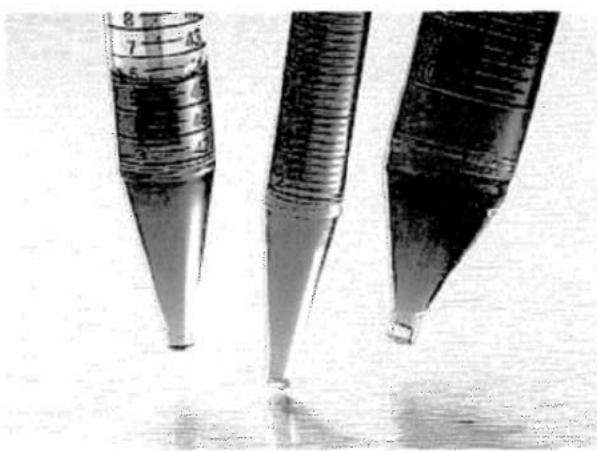
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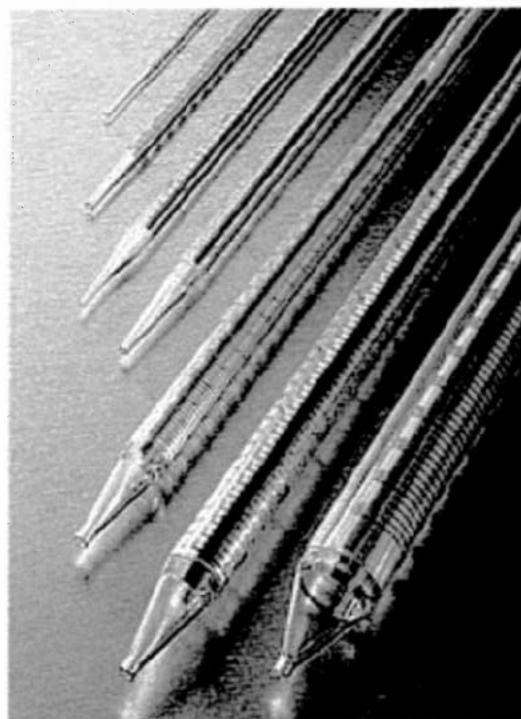
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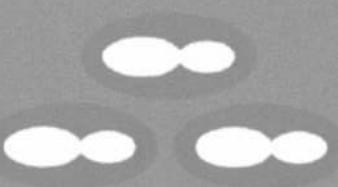
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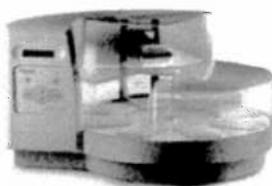
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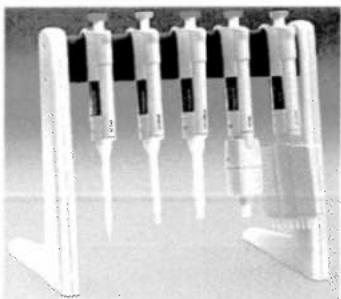
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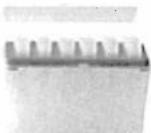
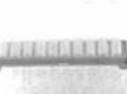
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Overview of Concurrent Sessions

Each 1.5 hour time block contains six 15-minute presentations.

Sunday, 17 June

Limes Room	Cambridge Room	Conference Rooms 1 & 2	Breakout Rooms 6 & 7	Breakout Rooms 4 & 5	Breakout Rooms 1 & 2	Breakout Room 3
8.30-10.00am Phylogeography	Molecular Evolution	Speciation	Ecological Genetics	Ecology and Evolution of Disease	Animal Mating/Breeding Systems	Quantitative Genetics
10.30am-12.00pm Phylogeography	Molecular Evolution	Speciation	Ecological Genetics	Ecology and Evolution of Disease	Animal Mating/Breeding Systems	Experimental Evolution
1.30-3.00pm Phylogeography	Systematics	Speciation	Bioinformatics/Phylogenetics	Ecological Genetics	Invasive Species	Life History Evolution
3.30-5.00pm Phylogeography	Systematics	Speciation	Ecological Genetics	Bioinformatics/Phylogenetics	Invasive Species	Life History Evolution

Monday, 18 June

Limes Room	Cambridge Room	Conference Rooms 1 & 2	Breakout Rooms 6 & 7	Breakout Rooms 4 & 5	Breakout Rooms 1 & 2	Breakout Room 3
8.30-10.00am Phylogeography	Molecular Evolution	Phylogenetic Theory and Methods	Sexual Selection	Empirical Population Genetics	Species Interactions	Plant Mating Systems
10.30am-12.00pm Phylogeography	Molecular Evolution	Phylogenetic Theory and Methods	Sexual Selection	Empirical Population Genetics	Species Interactions	Plant Mating Systems
1.30-3.00pm Ernst Mayr Award Competition	Systematics	Conservation Biology	Biogeography	Inbreeding	Behaviour/Social Evolution	Plant Mating Systems
3.30-5.00pm Ernst Mayr Award Competition	Systematics	Conservation Biology	Biogeography	Hybridisation	Behaviour/Social Evolution (3); Genomics/Proteomics (3)	Natural Selection and Contemporary Evolution

Tuesday, 19 June

Limes Room	Cambridge Room	Conference Rooms 1 & 2	Breakout Rooms 6 & 7	Breakout Rooms 4 & 5	Breakout Rooms 1 & 2	Breakout Room 3
8.30-10.00am Phylogeography	Systematics	Conservation Biology	Sexual Selection	Hybridisation	Genomics/ Proteomics	Evolution of Sex
10.30am-12.00pm Phylogeography	Systematics	Conservation Biology	Sexual Selection	Hybridisation (4); Education (2)	Theoretical Population Genetics	Evolution of Sex (1); Population Ecology (5)
1.30-3.00pm Molecular Evolution	Conservation Biology	Phylogenetic Theory and Methods	Biogeography	Phenotypic Plasticity	Theoretical Population Genetics (3); Macroevolution (3)	Coevolution
3.30-5.00pm Molecular Evolution	Speciation	Phylogenetic Theory and Methods	Biogeography	Adaptation	Macroevolution	Comparative Biology (5); Development and Evolution (1)

Wednesday, 20 June

Limes Room	Cambridge Room	Conference Rooms 1 & 2	Breakout Rooms 6 & 7	Breakout Rooms 4 & 5	Breakout Rooms 1 & 2	Breakout Room 3
8.30-10.00am Molecular Evolution	Speciation	Systematics	Biogeography	Adaptation	Evolution of Ecological Communities	Development and Evolution
10.30am-12.00pm Molecular Evolution	Speciation	Evolutionary Theory	Molecular Anthropology	Adaptation	Evolution of Ecological Communities	Evolutionary Theory

Programme of Symposia and Concurrent Session Presentations

The following pages contain the complete timetables for concurrent session and symposium talks. Each pair of facing pages contains all talks for a 1.5 hour time block, with times arranged horizontally and session topics/rooms arranged vertically.

Please refer to the floor plans on pp. 14–15 for room locations.

Presenting authors are displayed in **bold and underline**.

Author affiliations and e-mail addresses for all authors can be found in the index (p. 93).

Many special events will be running during the lunch breaks and from 5pm each day (e.g., workshops, presidential addresses, society meetings). For details of these events please refer to the programme overview on pp. 22–26, the list of special events on pp. 28–29, and the list of ASN, SSE and SSE meetings on pp. 30–31.

Sunday, 17 June – 8.30-10.00am

		SSB Symposium Cultural Phylogenetics: Dispatches from the Frontier <i>Coordinators: Russell D. Gray & Fiona Jordan</i>	Phylogeography	Molecular Evolution
		JAMES HAY THEATRE	LIMES ROOM	CAMBRIDGE ROOM
8.30am	Introduction: Cultural phylogenetics FIONA JORDAN		Comparative phylogeography of the New Zealand skink fauna: a synthesis DAVID G. CHAPPLE , CHARLES H. DAUGHERTY AND PETER A. RITCHIE	The RNA infrastructure of the eukaryotic cell LESLEY J. COLLINS AND DAVID PENNY
	Spoken word frequency predicts rates of lexical evolution throughout Indo-European language history MARK PAGEL University of Reading		Variation in gene expression profiles among bacterial symbionts from Thailand squids of the families Loliginidae and Sepiolidae (Mollusca: Cephalopoda) RICARDO GUERRERO-FERREIRA AND MICHELE K. NISHIGUCHI	Inheritance of mtDNA in New Zealand chinook salmon: a closer look JONCI WOLFF
9.00am	Tongues and trees: phylogenetic tests of agricultural dispersals in the Americas		East African <i>Hyperolius</i> frogs in a mosaic landscape LUCINDA LAWSON	C4 photosynthesis evolution in the grass family (Poaceae) PASCAL-ANTOINE CHRISTIN , NICOLAS SALAMIN AND GUILLAUME BESNARD
9.15am	RUSSELL D. GRAY , QUENTIN D. ATKINSON AND LYLE CAMPBELL University of Auckland		Phylogeography of invertebrate taxa across the sub-Antarctic Marion Island BETTINE J. VAN VUUREN , ELIZABETH MORTIMER AND STEVEN L. CHOWN	Mitochondrial recombination: an assessment of the effectiveness of current indirect analyses DANIEL J. WHITE , MELANIE J. PIERNON AND NEIL J. GEMMELL
9.30am	Pacific settlement and the evolution of Austronesian languages		Advances in comparative phylogeography: issues and a case study PAUL SUNNUCKS , RYAN C. GARRICK AND DAVID M. ROWELL	Adaptive evolution and computational modeling of neurotoxin-resistant sodium channels MANDA CLAIR JOST , HAROLD ZAKON, CHANDRARIJ BAJAJ AND DAVID M. HILLIS
9.45am	SIMON J. GREENHILL University of Auckland		Fire and ice: volcanic and glacial impacts on the phylogeography of the New Zealand forest fern <i>Asplenium hookerianum</i> LEON R. PERRIE , LARA D. SHEPHERD AND PATRICK J. BROWNSEY	The evolution of SINEs in lizards and snakes uncover a lateral transfer event of a SINE from a highly poisonous snake to a smallpox-related virus OLIVER PISKUREK AND NORIHIRO OKADA

Speciation	Ecological Genetics	Ecology and Evolution of Disease	Animal Mating/Breeding Systems	Quantitative Genetics
CONF. ROOMS 1 & 2	BREAKOUT ROOMS 6 & 7	BREAKOUT ROOMS 4 & 5	BREAKOUT ROOMS 1 & 2	BREAKOUT ROOM 3
Speciation in sticklebacks: investigation of reproductive isolating barriers <u>FELICITY C. JONES</u>	Barcoding the birds of New Zealand <u>JOHN WAUGH</u>	Molecular analysis of sex ratio modulation in rodent malaria <u>DAMIEN R. DREW</u> , SARAH REECE AND ANDREW READ	Mitochondrial mutations influence key male fertility parameters <u>NEIL J. GEMMELL</u> , PATRICE C. ROSENGRAVE, VICTORIA J. METCALF, FELICITY C. JONES, KATHERINE P. MCBRIDE, FRED W. ALLENDORF AND ROBERT MONTGOMERIE	Interacting nestmates and the genetic basis of honey bee phenotypes <u>TIMOTHY A. LINKSVAYER</u>
Niche dimensionality and ecological speciation <u>PATRIK NOSIL</u> AND LUKE HARMON	Ecological genetics of adaptation from standing variation in threespine stickleback <u>ROWAN D. H. BARRETT</u> , SEAN M. ROGERS AND DOLPH SCHLUTER	The role of microbial pathogens in the evolution of sociality <u>ANDREW J. BEATTIE</u> , ADAM STOW, DAVID BRISCOE, MICHAEL GILLINGS, SHANNON SMITH, MARITA HOLLEY, TISH SILBERBAUER, CHRISTINE TURNBULL AND REMKO LEYS	Does personality drive the evolution of individual mating strategies? A study in the great tit <u>SAMANTHA C. PATRICK</u> , JOHN QUINN AND BEN C. SHELDON	Signaling and indirect genetic effects in <i>Drosophila serrata</i> <u>DONNA PETFIELD</u>
Karyotype evolution of cichlid fishes in East African lakes <u>KOUTA YOSHIDA</u> , ASATO KUROIWA, NAOKI KOBAYASHI AND NORIHIRO OKADA	Heterozygosity-fitness correlations in the great tit: analyses at different levels <u>JOANNE R. CHAPMAN</u> AND BEN C. SHELDON	The coupled response of aphids and their symbionts to bacterial invaders <u>NICOLE M. GERARDO</u> AND NANCY A. MORAN	Multiple paternity in an ancient reptile, the tuatara <u>JENNIFER A. MOORE</u> , NICOLA J. NELSON AND CHARLES H. DAUGHERTY	Standing genetic variance reflects mutational variance for fitness in two species of <i>Caenorhabditis</i> <u>MATTHEW P. SALOMON</u> , DEJERIANNE G. OSTROW, DUSTIN BLANTON, WHITNEY BOUR, MYRNELLE DAMAS, NAOMI PHILIPS, JEFF ROSENBLUM AND CHARLES F. BAER
Mismatch between ecological and genetic factors promotes sympatric speciation <u>NICLAS T. NORSTRÖM</u> , NOËL M. A. HOLMGREN AND WAYNE M. GETZ	Phylogeography and population genetic structure of native and invasive fireweed (<i>Senecio madagascariensis</i> Poir.) populations <u>JOHANNES J. LE ROUX</u> AND ANIA M. WIECZOREK	Some properties of negative frequency-dependent selection at MHC loci <u>RICK J. STOFFELS</u> AND HAMISH G. SPENCER	Polyandry facilitates post-copulatory inbreeding avoidance in house mice <u>RENEE C. FIRMAN</u> AND LEIGH W. SIMMONS	Bringing phylogenetic comparative approaches to the study of quantitative genetic constraint <u>LIAM J. REVELL</u>
Ecological speciation in mosquitofish <u>R. BRIAN LANGERHANS</u> , MATTHEW E. GIFFORD AND EVERTON O. JOSEPH	Island population differentiation associated with a host shift in a purposefully introduced biological control agent (<i>Diachasmimorpha tryoni</i>) <u>ADAM E. VORSINO</u> , ANNA M. WEICZOREK, MARK G. WRIGHT AND RUSSL H. MESSING	Major histocompatibility complex based susceptibility and resistance to a bacterial pathogen in African clawed frog tadpoles (<i>Xenopus laevis</i>) <u>SETH M. BARRIBEAU</u> , JANDOUWE VILLINGER AND BRUCE WALDMAN	Detection of female sexual promiscuity using cuticular pheromones <u>MELISSA L. THOMAS</u> AND LEIGH W. SIMMONS	Evolutionary consequences of bottlenecks in a restricted <i>Drosophila</i> species <u>BELINDA VAN HEERWAARDEN</u> , TORSTEN N. KRISTENSEN, YVONNE WILLI AND ARY A. HOFFMANN
Screening for the species' specific loci in cichlid genome <u>NAOKI KOBAYASHI</u> , MASAKATSU WATANABE, JUN-ICHI ASAKAWA AND NORIHIRO OKADA	Patterns of pollen dispersal amongst paddock trees with insect vs bird pollination <u>KYM M. OTTEWELL</u> , STEVE C. DONNELLAN AND DAVID C. PATON	Avian blood parasites in European hosts: patterns of diversity and prevalence in a malaria-related group <u>TANIA JENKINS</u> AND IAN P. F. OWENS	Examination of pheromone use in a praying mantid, <i>Stagmomantis limbata</i> <u>KATHERINE L. BARRY</u> AND MICHAEL MAXWELL	Evolutionary potential in restricted <i>Drosophila</i> <u>VANESSA M. KELLERMANN</u> , CARLA M. SGRO AND ARY A. HOFFMANN

Sunday, 17 June – 10.30am-12.00pm

		SSB Symposium Cultural Phylogenetics: Dispatches from the Frontier <i>Coordinators: Russell D. Gray & Fiona Jordan</i>	Phylogeography	Molecular Evolution
		JAMES HAY THEATRE	LIMES ROOM	CAMBRIDGE ROOM
10.30am		Coevolution of structural features of language MICHAEL DUNN Max Planck Institut Psycholinguistics, Nijmegen	Pleistocene glacial cycles result in contrasting, superimposed phylogeographic patterns in the New Zealand speckled skink, <i>Oligosoma infrapunctatum</i> STEPHANIE N. J. GREAVES , DAVID G. CHAPPLE, DIANNE M. GLEESON, CHARLES H. DAUGHERTY AND PETER A. RITCHIE	Evidence a negative correlation between human polymorphism and flanking sequence G+C% is not unique to mutations affecting CpGs GAVIN HUTTLEY , HELEN LINDSAY AND PETER MAXWELL
10.45am			The phylogeography of the <i>Niveaphasma</i> species complex SHAY B. O'NEILL , THOMAS R. BUCKLEY, TONY JEWELL AND PETER A. RITCHIE	Frequency of gene conversions between human paralogues YUICHIRO HARA , KANAKO O. KOYANAGI AND HIDEMI WATANABE
11.00am		Matriliney and male absence: natural selection or nice story? FIONA JORDAN AND RUTH MACE University College London	Cryptic speciation in the tropical savannahs of northern Australia: phylogeography of the agamid lizards, <i>Diporiphora bilineata</i> and <i>D. magna</i> KATIE L. SMITH , DANIELLE L. EDWARDS, LUKE P. SHOO, JANE E. MELVILLE AND ROSS A. SADLER	Evolution of segmented mitochondrial genomes in the lice of humans and other primates RENFU SHAO , EWEN F. KIRKNESS AND STEPHEN C. BARKER
11.15am			Postglacial colonization of the Sierra Nevada alpine zone SEAN D. SCHOVILLE AND GEORGE K. RODERICK	Microsatellite diversity is reduced on a marsupial chromosome ANNA J. MACDONALD
11.30am		The mode and tempo of linguistic evolution QUENTIN D. ATKINSON AND MARK PAGE University of Reading	Lineage diversification in web-toed salamanders: a multilocus and morphological perspective SEAN M. ROVITO	Molecular evolution of V1R-type odorant receptor of cichlid fishes from east African great lakes MASATO NIKAIDO AND NORIHIRO OKADA
11.45am			Differential gene flow of mitochondrial and nuclear DNA among hybridising chromosomal races of Australian morabine grasshoppers (<i>Vandiemenella</i> , <i>viatica</i> species group) on Kangaroo Island TAKESHI KAWAKAMI , ROGER K. BUTLIN, MARK ADAMS AND STEVEN J. B. COOPER	Estimating the mutation rate in mitochondrial genome of Tuatara (<i>Sphenodon punctatus</i>) ELMIRA MOHANDESAN , DAVID LAMBERT AND CRAIG MILLAR

Speciation	Ecological Genetics	Ecology and Evolution of Disease	Animal Mating/Breeding Systems	Experimental Evolution
CONF. ROOMS 1 & 2	BREAKOUT ROOMS 6 & 7	BREAKOUT ROOMS 4 & 5	BREAKOUT ROOMS 1 & 2	BREAKOUT ROOM 3
Proximate signal perception can maintain a stable hybrid zone ANDERS BRODIN AND FREDRIK HAAS	Increased weapon size and reduced visual displays: evidence for a glacial ecotype of sockeye salmon KRISTINA M. RAMSTAD, CAROL A. WOODY AND FRED W. ALLENDORF	Incorporating cellular immune responses into models of viral life-history evolution MICHAEL A. GILCHRIST AND DAN COOMBS	Measuring sexual selection: a comparison of competing indices with mating system data from a terrestrially breeding salamander DEAN A. CROSHAW	Evolving the setpoint of prophage induction DOMINIK REFARDT AND PAUL B. RAINY
Premating isolation in relation to genetic divergence and body size JOSEPH BERNARDO, LUKE O'STEEN AND MARTH YOKE	Patterns of gene flow in two species of estuarine perchlets (<i>Ambassis marianus</i> and <i>Ambassis jacksoniensis</i>) in eastern Australia COURTENAY E. MILLS, WADE HADWEN AND JANE M. HUGHES	Why are all pathogens not molecular mimics? AMY L. HURFORD, TROY DAY AND PETER TAYLOR	Vigilance may drive mating system variation and morph fluctuations in a polymorphic lizard MO HEALEY	The rate of song evolution in New Zealand saddlebacks LOUIS M. J. RANJARD, KEVIN PARKER, DIANNE H. BRUNTON AND HOWARD A. ROSS
Parallel evolution, sexual isolation and phenotype-dependent dispersal in a freshwater isopod FABRICE EROUKHMANOFF AND ERIK I. SVENSSON	Aquatic islands in an arid sea: population dynamics of an endangered mound spring snail in central Australia JESSICA M. WORTHINGTON WILMER, CHE ELKIN AND CHRIS WILCOX	<i>Wolbachia</i> effects on host activity ELIZABETH McGRAW	Ovarian fluid as a potential mechanism for cryptic female choice in New Zealand chinook salmon (<i>Oncorhynchus tshawytscha</i>)? PATRICE C. ROSENGRAVE, NEIL GEMMELL AND VICTORIA METCALF	Genetic architecture of <i>Pseudomonas fluorescens</i> facilitates repeated re-evolution of a complex phenotype CHRISTIAN KOST, HUBERTUS J. E. BEAUMONT AND PAUL B. RAINY
Adaptation of opsins causes the species diversity of Lake Victoria cichlid fishes YOHEY TERAI, SHINJI MIZOIRI, MITSUTO AIBARA AND NORIHIRO OKADA	Genetic diversity in New Zealand rhodolith beds JUDY E. BROOM, DARREN R. HART, WENDY A. NELSON, TRACY J. FARR AND KATE NEILL	Source-sink dynamics shape the evolution of antibiotic resistance and its pleiotropic fitness cost GABRIEL G. PERRON, ANDREW GONZALEZ AND ANGUS BUCKLING	Algal blooms alter reproductive behavior in the sand goby MARJA H. JÄRVENPÄÄ AND KAI B. LINDSTRÖM	Epistatic and pleiotropic effects of adaptive mutations TIM F. COOPER AND DOMINIQUE SCHNEIDER
The diversity of opsins in sympatric Lake Victoria cichlid species RYUTARO MIYAGI, YOHEY TERAI, MITSUTO AIBARA AND NORIHIRO OKADA	Is sea snake population genetic structure dictated by habitat fragmentation? AMANDA M. LANE AND RICHARD SHINE	Full genome comparisons of mycobacteria: insights into the origin of tuberculosis MICHAEL S. ROSENBERG, LUZ-ANDREA PFISTER AND ANNE C. STONE	Careless mothers and parental fathers: genetic parentage of North Island brown kiwi KAREN J. NUTT	The role of pathogens in adaptive radiations REBECCA BENMAYOR, MIKE BONSALL, ANGUS BUCKLING, DAVID J. HODGSON AND MICHAEL BROCKHURST
Intra-island differentiation in anole lizards: a test of the allopatric speciation model YANN SURGET-GROBA, HELENA JOHANSSON AND ROGER S. THORPE	Genetic discrimination among seasonal migratory runs: does CLOCK make chinook salmon tick? KATHLEEN G. O'MALLEY AND MICHAEL A. BANKS	Understanding tuberculosis transmission by using molecular epidemiological data MARK M. TANAKA, ANDREW R. FRANCIS, FABIO LUCIANI AND SCOTT A. SISSON	Comparative study of multiple paternity rates in sharks TOBY S. DALY-ENGEL, R. DEAN GRUBBS, BRIAN W. BOWEN AND ROBERT J. TOONEN	Transcription divergence and the loss of plasticity in <i>Bacillus subtilis</i> HEATHER MAUGHAN, C. WILLIAM BIRKY, JR., WAYNE L. NICHOLSON AND JOANNA MASEL

Sunday, 17 June – 1.30-3.00pm

		SSE Symposium Tribute to David Lloyd's Research on Reproductive Strategies: His insights and their Ongoing Impact Coordinators: Lynda F. Delph & Curtis M. Lively	Phylogeography	Systematics
		JAMES HAY THEATRE	LIMES ROOM	CAMBRIDGE ROOM
1.30pm		Introduction: Tribute to David Lloyd's research on reproductive strategies <u>LYNDA F. DELPH</u>	Speciation in Australian wet tropics skinks: perspectives from multiple nuclear loci and mate choice trials <u>GAYNOR DOLMAN</u>	Evolution and systematic significance of plant secondary metabolites <u>RILKA M. TASKOVA</u>
		A Lloydian perspective on the evolution and function of heterostylous sexual systems <u>SPENCER C. H. BARRETT AND KATHRYN A. HODGINS</u> University of Toronto	Phylogeography of the little penguin, <i>Eudyptula minor</i> <u>AMANDA J. PEUCKER</u> , PETER DANN AND CHRISTOPHER P. BURRIDGE	Molecular phylogenetics of a freshwater crayfish genus in southeastern Australia <u>MARK B. SCHULTZ</u> , SARAH A. SMITH AND CHRISTOPHER M. AUSTIN
2.00pm	David Lloyd and the ecological context of breeding-system evolution		Molecular systematics and the historical biogeography of the African <i>Platyleurin</i> cicadas (Hemiptera: Cicadidae) <u>BENJAMIN W. PRICE</u> , NIGEL P. BARKER AND MARTIN H. VILLET	A multilocus nuclear perspective on the systematics of North American fence lizards <u>ADAM D. LEACHE</u>
2.15pm	<u>MAIA F. BAILEY</u> Indiana University		The origins of tropical diversity: phylogeography of leafcutter ants (<i>Atta</i> spp.) <u>SCOTT E. SOLOMON</u> , MAURICIO BACCI, JR AND ULRICH G. MUELLER	A subtidal to intertidal radiation of Sculpins (Family: Cottidae) of the Northeastern Pacific <u>MATTHEW L. KNOPE</u> AND MARINA L. RAMON
2.30pm	Biological enemies, variation strategies, and the cost and persistence of sex		Comparative phylogeography of New Zealand terrestrial invertebrates <u>THOMAS R. BUCKLEY</u> , RICHARD A. B. LESCHEN, CHRIS SIMON, KATHARINE MARSKE, KATHRYN GANNON, DAVID MARSHALL, KATHY HILL AND COLLEEN CHAMBERS	Diversification of the Palau diplommatinid land snails <u>REBECCA J. RUNDELL</u>
2.45pm	<u>CURTIS M. LIVELY</u> Indiana University		The evolution and genetic diversity of the extinct Tremarctine Bears <u>SARAH C. BRAY</u> , JEREMY J. AUSTIN AND <u>ALAN COOPER</u>	DNA sequencing and SINE insertions support <i>Laonastes</i> as a "living fossil" <u>DOROTHEE HUCHON</u> , PASCALE CHEVRET, URSULA JORDAN, C. WILLIAM KILPATRICK, VINCENT RANWEZ, JUERGEN BROSIUS AND JUERGEN SCHMITZ

Speciation	Bioinformatics/ Phyloinformatics	Ecological Genetics	Invasive Species	Life History Evolution
CONF. ROOMS 1 & 2	BREAKOUT ROOMS 6 & 7	BREAKOUT ROOMS 4 & 5	BREAKOUT ROOMS 1 & 2	BREAKOUT ROOM 3
Regulating speciation: desaturase genes control sex pheromone specificity in New Zealand tortricid moths TAMARA M. SIREY , DAVID R. GREENWOOD AND RICHARD D. NEWCOMB	Glimpses into the strange world of phylogenetic mixtures FREDERICK A. MATSEN AND MIKE STEEL	Island Model Test v2: accounting for inheritance mode when comparing genetic population structure among loci ADAM H. PORTER	A trans-continental experimental analysis of life history evolution in <i>Silene latifolia</i> , an invasive plant LORNE M. WOLFE , DEXTER R. SOWELL, MAURINE B. NEIMAN AND DOUGLAS R. TAYLOR	Nutrient- and gender-specific effects of dietary restriction on lifespan and reproductive performance in a cricket ALEXEI A. MAKLAKOV , JOSEPHINE DESSMANN, FIONA CLISSOLD, DAVID RAUBENHEIMER, STEPHEN J. SIMPSON AND ROBERT BROOKS
A re-examination of the reinforcement hypothesis in sea urchins LAURA B. GEYER , KIRK ZIGLER AND HARILAOS LESSIOS	Testing the reliability of genetic methods of species identification HOWARD A. ROSS	Genetic variation of MHC Class IIB and mate choice in the red-billed gull NICOLA L. CHONG , JAMES A. MILLS AND ALLAN J. BAKER	Biological invasions: do genetic bottlenecks matter? DAVID M. ROSENTHAL AND MITCHELL B. CRUZAN	Phenotypic plasticity and genetic variability of life history traits in <i>Saccharomyces cerevisiae</i> AYMÉ SPOR , SHAOXIAO WANG, CHRISTINE DILLMANN, DOMINIQUE DE VIENNE AND DELPHINE SICARD
Microsatellite markers reveal a genetic sieve to the multiple origins of <i>Tragopogon</i> allopolyploids V. VAUGHAN SYMONDS , DOUGLAS E. SOLTIS AND PAMELA S. SOLTIS	Biodiversity Synthesis Center: a new venue for accelerating the pace of discovery in biodiversity informatics MARK W. WESTNEAT	An experimental and genetic assessment of the frequency of occurrence of hybridization between yellowfin and black bream DAVID G. ROBERTS , DAVID J. AYRE, RON WEST AND CHARLES GRAY	Differential admixture shapes morphological and genetic differences among invasive populations of the brown anole, <i>Anolis sagrei</i> JASON J. KOLBE	The variation in seed dormancy among <i>Beta vulgaris</i> subsp. <i>maritima</i> populations along a latitudinal gradient: impact of environmental factors KRISTEN WAGMANN , NINA HAUTEKEETE, YVES PIQUOT AND HENK VAN DIJK
Limitation of Dobzhansky-Muller incompatibility by variational constraint in gene networks MICHAEL E. PALMER AND MARCUS W. FELDMAN	A novel method of gene process involvement identification using profiles of evolution WAI LOK SIBON LI AND ALEXEI J. DRUMMOND	Survival under the ozone hole: Antarctic moss shows no evidence of UV-induced mutation LAURENCE J. CLARKE , DAVID J. AYRE AND SHARON A. ROBINSON	Weeds: the headache, not the brain tumour ANGELA T. MOLES	Are feeding larvae always primitive? What calcareous tube worm phylogeny can tell us about invertebrate life history evolution ELENA K. KUPIRIANOVA AND GREG W. ROUSE
Genetic differentiation at a small geographic scale in the perch (<i>Perca fluviatilis</i>) SARA M. BERGEK	YAPR — yet another phyloinformatics rant RODERIC D. M. PAGE	Genetic basis of susceptibility to a keystone herbivore, <i>Pemphigus betae</i> , in a foundation tree species (<i>Populus angustifolia</i>) MATTHEW S. ZINKGRAF , SCOTT A. WOOLBRIGHT, THOMAS G. WHITHAM AND GERY J. ALLAN	Separating stochastic events from adaptive evolution during the process of species invasion STEPHEN R. KELLER AND DOUGLAS R. TAYLOR	What microsatellites can tell us about the evolutionary genetics of wild populations: a cautionary tale ERIK POSTMA AND CHRISTA MATEMAN
Sympatric speciation in subdivided populations VINCENT CALCAGNO AND FRANCOIS ROUSSET	The evolution of the antenna of the photosystems YINAN ZHANG	Plant population structure after repeated wildfires: the effects of pollen and seed dispersal DAVID J. AYRE , SIEGY L. KRAUSS, KYM M. OTTEWELL AND ROBERT J. WHELAN III	Invasive melastome dispersal and recruitment in tropical Queensland BRITTA D. HARDESTY AND HELEN T. MURPHY	The comparative context of clutch size manipulation studies: variation along the slow-fast continuum CAMERON K. GHALAMBOR, MERIBETH HUIZINGA, HELEN R. SOFAER, JONGMIN YOON AND JULIAN TORRES DOWDALL

Sunday, 17 June – 3.30-5.00pm

		SSE Symposium Tribute to David Lloyd's Research on Reproductive Strategies: His insights and their Ongoing Impact Coordinators: Lynda F. Delph & Curtis M. Lively	Phylogeography	Systematics
		JAMES HAY THEATRE	LIMES ROOM	CAMBRIDGE ROOM
3.30pm		Special features of the New Zealand flora	Comparative phylogeographic patterns of Australian <i>Eustacus</i> crayfish and their turbellarian ectosymbionts in Queensland mesic rainforest GIOVANELLA CARINI , MARK PONNIAH, DANIEL J. SCHMIDT AND JANE M. HUGHES	Do extreme environments promote morphological convergence? The case study of groundwater crustaceans CHRISTOPHE J. DOUADY , FLORIAN MALARD AND JANINE GIBERT
3.45pm		ALASTAIR W. ROBERTSON Massey University	Past patterns of connectivity between populations of freshwater fauna from the Lake Eyre and Gulf of Carpentaria basins, Australia KATE D. MASCI , MARK PONNIAH AND JANE M. HUGHES	Climbing the tree of frogs DAVID C. CANNATELLA
4.00pm		David Lloyd and mating-system evolution in <i>Leavenworthia</i>	Discordance between phylogeography and development mode in a poecilogenous Caribbean sea slug, <i>Costasiella ocellifera</i> (Opisthobranchia: Sacoglossa) RYAN A. ELLINGSON AND PATRICK J. KRUG	The evolution of the mitochondrial genomes of 5 <i>Rattus</i> species JUDITH H. ROBINS , PATRICIA A. MCLENACHAN, LAUREN CRAIG, ÉLIZABETH MATISOO SMITH AND MATTHEW J. PHILLIPS
4.15pm		DANIEL J. SCHOEN AND JEREMIAH W. BUSCH McGill University	Landforms predict phylogeographic structure on one of the world's most ancient surfaces MITZY PEPPER , PAUL E. DOUGHTY AND J. SCOTT KEOGH	Molecular insights indicate that the bathybenthic genus <i>Pachycara</i> (Perciformes: Zoarcidae) is represented by a single species in the North Atlantic hydrothermal vent fields SÉRGIO STEFANNI , FILIPE M. PORTEIRO, RAUL BETTENCOURT, PAULO J. GAVAIA AND RICARDO S. SANTOS
4.30pm		Quantitative plant gender — the insight of David Lloyd	Do mussels move? Freshwater mussel connectivity within and between drainage basins in Northern Australia JAMES H. FAWCETT , ANDREW M. BAKER AND JANE H. HUGHES	Morphological convergence in two groups of cormorants MARTYN KENNEDY
4.45pm		GLENDIA VAUGHTON AND MIKE RAMSEY University of New England	The impact of hydrology, riverine architecture, and organismal biology upon connectivity in northern Australian freshwater fish JOEL A. HUEY , ANDREW M. BAKER AND JANE M. HUGHES	The importance of color pattern in determining species boundaries in marine fishes MATTHEW T. CRAIG

Speciation	Ecological Genetics	Bioinformatics/Phyloinformatics	Invasive Species	Life History Evolution
CONF. ROOMS 1 & 2	BREAKOUT ROOMS 6 & 7	BREAKOUT ROOMS 4 & 5	BREAKOUT ROOMS 1 & 2	BREAKOUT ROOM 3
Species delimitation in a New Zealand plant species radiation CARLOS A. LEHNEBACH, SIMON JOLY, DAVID HAVELL, PHIL GARNOCK-JONES AND PETER J. LOCKHART	Conservation genetics of the world's rarest seabird: Whakapapa o te Taiko; Hokopapa o tch Tchaik HAYLEY A. LAWRENCE, GRAEME A. TAYLOR, CRAIG D. MILLAR AND DAVID M. LAMBERT	Mapping microbial diversity ROB KNIGHT	Global connectivity of the invasive sea squirt <i>Styela clava</i> SHARYN J. GOLDSTIEN, L. DUPONT, F. VIARD, N. J. GEMMELL, D. SCHIEL AND J. D. D. BISHOP	Linking changes in life history parameters to fitness: translating new tools from population ecology DAVE HODGSON AND STUART TOWNLEY
Diversification of a tree lineage (Cunoniaceae) in New Caledonia YOHAN PILLON, JEROME MUNZINGER, HAMID AMIR, HELEN C. F. HOPKINS AND MARK W. CHASE	Is mitochondrial DNA diversity and indicator of population size in Adélie penguins? GABRIELLE A. BEANS AND DAVID M. LAMBERT	Orthomam: a database of candidate coding markers for mammalian phylogenomics VINCENT RANWEZ, FRÉDÉRIC DELSUC, MARIE-KA TILAK, SYLVIE RANWEZ AND EMMANUEL J. P. DOUZERY	A test of Darwin's 'naturalization hypothesis' using invasive insects in the Hawaii archipelago MARK G. WRIGHT, LEYLA V. KAUFMAN AND ADAM E. VORSINO	Alternative life history strategies in parasites: the role of environmental perception CLÉMENT LAGRUE AND ROBERT POULIN
New islands, new species? A case study of <i>Plantago</i> (Plantaginaceae) in the Hawaiian Islands STEPHANIE F. DUNBAR, ANIA M. WIECZOREK AND CLIFFORD W. MORDEN	Association between behavioural traits and immune genes of the wet tropics avifauna of North Queensland, Australia ITZEL ZAMORA-VILCHIS, ROSS H. CROZIER, JOHN A. ENDLER AND CHRISTOPHER JOHNSON	Mind the gap: the informativity of indels for phylogenetics VINCENT DAUBIN, BASTIEN BOUSSAU AND YVES CLÉMENT	Genetic diversity of differentially invading <i>Miconia calvescens</i> throughout its introduced Pacific range ANIA M. WIECZOREK AND JOHANNES J. L. ROUX	A general model for the scaling of offspring size and adult size DANIEL STEIN, FALSTER, ANGELA TINA MOLES AND MARK WESTOBY
Endemic radiation of <i>Paramysis</i> (Crustacea: Mysida) in the Ponto-Caspian region: ancient lakes as evolutionary reservoirs or diversification hotspots? ASTA AUDZIJONYTE, MIKHAIL DANELIYA, NIKOLAI MUGUE AND RISTO VÄINÖLÄ	Landscape coalescent ABC of the cane toad bioinvasion ARNAUD ESTOUP AND STUART J. E. BAIRD	No talk currently scheduled in this time slot. Please check addendum.	Estimating the propagule size of a recent fruit fly outbreak EMILIE C. CAMERON, STUART GILCHRIST AND JOHN SVED	Environmental effects on ageing: extreme differences between wild and captive flies NORIYOSHI KAWASAKI, RUSSELL BONDURIANSKY, CHAD BRASSIL AND ROBERT BROOKS
Did one of the lineages of the <i>Pediculus</i> (lice) of humans evolve on <i>Homo neanderthalensis</i> ? Are the head lice and body lice of humans the same or different species? NATALIE P. LEO, KAGEYAMA, TAKASHI AND STEPHEN C. BARKER	No talk currently scheduled in this time slot. Please check addendum.	No talk currently scheduled in this time slot. Please check addendum.	Forecast: weeds. Local, regional, and national outlooks for the plant invasion of New Zealand JON J. SULLIVAN, HAZEL A. W. GATEHOUSE AND RICHARD P. DUNCAN	Predation by bears drives senescence in natural populations of salmon STEPHANIE M. CARLSON, RAY HILBORN, ANDREW P. HENDRY AND THOMAS P. QUINN
Quantifying cis- and trans-regulation of transcription in <i>Drosophila</i> HURNG-YI WANG	No talk currently scheduled in this time slot. Please check addendum.	No talk currently scheduled in this time slot. Please check addendum.	No talk currently scheduled in this time slot. Please check addendum.	Social inhibition of egg production in a harem reef fish: implications for lifetime fecundity & sex-change models STEFAN P. W. WALKER AND MARK I. MCCORMICK

Monday, 18 June – 8.30-10.00am

		SSE Symposium Ecological Genomics of Model Eukaryotes <i>Coordinators: John McKay & John R. Stinchcombe</i>	Phylogeography	Molecular Evolution
		JAMES HAY THEATRE	LIMES ROOM	CAMBRIDGE ROOM
8.30am		Ecological genetics of drought adaptation in <i>Arabidopsis thaliana</i>	Reconstructing species radiations in the New Zealand alpine flora HEIDI M. MEUDT , PETER J. LOCKHART AND PHIL GARNOCK-JONES	Was Kimura correct — are rates of neutral mutation and evolution equal? CRAIG D. MILLAR, ANDREW DODD, JENNIFER ANDERSON, GILLIAN C. GIBB, PETER A. RITCHIE, CARLO BARONI, MICHAEL D. WOODHAMS, MICHAEL D. HENDY AND DAVID M. LAMBERT
8.45am		JOHN MCKAY Colorado State University	Biogeographic patterns in Southern Hemisphere <i>Plantago</i> (Plantaginaceae) MEI LIN TAY	Geological dates and molecular rates: rapid divergence of rivers and their biotas JONATHAN M. WATERS , CHRISTOPHER P. BURRIDGE, DAVE CRAW, DIANE L. ROWE, GRAHAM P. WALLIS, SITA APTE, TANIA M. KING, LEIGH ANDERSON AND RICHARD J. NORRIS
9.00am		A genomic view of the evolution of host specialization and its consequences	Phylogeographic population structure of three Southern African endemic elephant-shrews (Afrotheria, Macroscelidea) HANNELINE A. SMIT , TERRY J. ROBINSON AND BETTINE J. VAN VUUREN	Visualising variation in <i>Mycobacterium tuberculosis</i> by modelling the evolution of spoligotype patterns JOSEPHINE F. REYES , ANDREW R. FRANCIS AND MARK M. TANAKA
9.15am		CORBIN D. JONES University of North Carolina	Witness to the sinking ark or victims of the Pacific flypaper? Phylogenetic relationships of Anostostomatid crickets RENAE C. PRATT , MARY MORGAN-RICHARDS AND STEVE TREWICK	Is the adaptiveness of the genetic code a by-product of evolutionary constraints? LEV Y. YAMPOLSKY
9.30am		Wild <i>C. elegans</i> : complex genetics in simple worms	Isthmus of Kra; a Bayesian phylogeographic approach GUINEVERE O. U. WOGAN	River evolution reveals dynamic molecular rates CHRISTOPHER P. BURRIDGE , DAVE CRAW AND JONATHAN M. WATERS
9.45am		MATTHEW ROCKMAN Princeton University	Molecular phylogenetic discord between mitochondrial DNA and Amplified Fragment Length Polymorphisms in New Caledonian insular gecko species (Reptilia: Diplodactylidae) ANTHONY J. GENEVA , AARON M. BAUER AND TODD JACKMAN	Frequency of gene conversions between human paralogues YUICHIRO HARA , KANAKO O. KOYANAGI AND HIDEMI WATANABE

Phylogenetic Theory and Methods	Sexual Selection	Empirical Population Genetics	Species Interactions	Plant Mating Systems
CONF. ROOMS 1 & 2	BREAKOUT ROOMS 6 & 7	BREAKOUT ROOMS 4 & 5	BREAKOUT ROOMS 1 & 2	BREAKOUT ROOM 3
Parsimonay and likelihood under a range of models and datatypes <u>DAVID PENNY</u>	Evolution of sexual dichromatism through convergent losses of elaborate female coloration in New World orioles <u>CHRISTOPHER M. HOFMANN</u> , THOMAS W. CRONIN AND KEVIN E. OMLAND	The evolution of species' borders: patterns of gene flow and genetic diversities on range margins <u>LINE K. BAY</u> , Ross H. CROZIER AND M JULIAN CALEY	Effects of plant ploidy variation on herbivorous insect attack and herbivore community structure <u>STEPHEN B. HEARD</u> , KRISTY HALVERSON, JOHN D. NASON AND JOHN O. STIREMAN III	The evolution of ovule number: a phylogenetic test of the bet-hedging hypothesis <u>MARTIN BURD</u> , TIA-LYNN ASHMAN, DIANE R. CAMPBELL, MICHELE R. DUDASH, MARK O. JOHNSTON, TIFFANY M. KNIGHT, SUSAN J. MAZER, RANDALL J. MITCHELL, JANETTE A. STEETS AND JANA C. VAMOSI
Extracting and visualizing recurrent signals from incongruent gene trees using filtered supernetworks <u>JAMES B. WHITFIELD</u> , DANIEL H. HUSON AND MIKE A. STEEL	Ecological causation of intersexual mimicry in Hawaiian damselflies <u>IDELLE A. COOPER</u>	Sex specific gene flow in frillneck lizards (<i>Chlamydosaurus kingii</i>) <u>BEATA UJVARI</u> , MARK DOWTON AND THOMAS MADSEN	Genetic correlations in a phytophagous insect, and the problem of host shifts <u>MATTHEW FORISTER</u> , ADAM EHMER AND <u>DOUGLAS J. FUTUYAMA</u>	When beauty is the beast: orchids induce pollinator ejaculation <u>ANNE C. GASKETT</u> AND MARIE E. HERBERSTEIN
Identifiability of phylogenetic models <u>ELIZABETH S. ALLMAN</u> , CECILE ANE AND <u>JOHN A. RHODES</u>	The diversification of mate preferences by natural and sexual selection <u>HOWARD RUNDLE</u> , STEVE CHENOWETH AND MARK BLOWS	The genetic structure of a collared pika (<i>Ochotona collaris</i>) population from the southwest Yukon revealed using eighteen microsatellite markers <u>JESSIE M. ZGURSKI</u> AND DAVID S. HIK	Trophic cascades alter patterns of natural selection on <i>Mimulus guttatus</i> plants <u>JON R. HALOIN</u>	Gametic disequilibrium among organellar genes reflects consequences of paternal leakage in <i>Silene vulgaris</i> <u>JENNIFER R. ELLIS</u> AND DAVID E. McCUALEY
A Markov-modulated Markov model of RNA secondary structure evolution <u>STEVEN H. WU</u> , STEPHANE GUINDON AND ALLEN G. RODRIGO	Gametic isolation in stalk-eyed flies <u>EMILY G. AMITIN</u> AND GERALD S. WILKINSON	Geographic variation in the within-host genetic diversity of a coastal trematode and its evolutionary implications <u>DEVON B. KEENEY</u> AND ROBERT POULIN	Interspecific competition drives generalization in a genus of host specific lice (Phthiraptera: Ischnocera: Columbicola) <u>JAE L. MALENKE</u> , KEVIN P. JOHNSON AND DALE H. CLAYTON	Is seed set in <i>Stylium armeria</i> at the Haig and Westoby equilibrium? A test of simultaneous resource and pollen limitation <u>ROWAN H. BROOKES</u> , LINLEY K. JESSON AND MARTIN BURD
Testing a new discrete mathematical method for phylogenetic reconstruction <u>ESZTER ARI</u> AND EENA JAKO	Fitness consequences of genetic incompatibility in an Australian frog <u>MARTIN A. DZIMINSKI</u> , J. DALE ROBERTS AND LEIGH W. SIMMONS	Fine-scale genetic structure and dispersal distance in the harvester ant <i>Pogonomyrmex barbatus</i> <u>SEVAN S. SUNI</u> AND DEBORAH M. GORDON	Generalists are not generalists: host relatedness constrains parasite specificity <u>MARC J. LAJEUNESSE</u>	The evolution and maintenance of combined and separate sexes in moss gametophytes <u>LINLEY K. JESSON</u> , PHIL GARNOCK-JONES AND MONIQUE CRAWFORD
Accommodating fossil record hiatuses into molecular estimates of rodent divergence times <u>DIANE L. ROWE</u> , KATHERINE A. DUNN, RODNEY L. HONEYCUTT AND CHRISTOPHER P. BURRIDGE	Seminal fluids modulate female remating behaviour in the Queensland fruit fly, <i>Bactrocera tryoni</i> <u>PREETHI RADHAKRISHNAN</u> AND PHILLIP W. TAYLOR	Understanding and predicting population connectivity in the sea: a multispecies comparative study <u>LUCIANO B. BEHEREGARAY</u> , SAM BANKS, LUCIANA M. MOLLER, MAXINE PIGGOTT, NEIL HOLBROOK AND JOANNA WISZNIEWSKI	Infiltration behavior and fitness impacts: a one-year study of the social parasite <i>Megalomyrmex symmetochus</i> and its fungus-growing ant host <u>RACHELLE M. M. ADAMS</u>	Estimating the frequency and distribution of <i>S</i> alleles in Australia in the self-incompatible annual weed <i>Raphanus raphanistrum</i> <u>SUSAN E. HOEBEE</u> , PIP GRIFFIN, JOSHUA KOH, EDWARD J. NEWBIGGIN, FREDDIE LOYMAN AND ANDREW G. YOUNG

Monday, 18 June – 10.30am-12.00pm

		SSE Symposium Ecological Genomics of Model Eukaryotes <i>Coordinators: John McKay & John R. Stinchcombe</i>	Phylogeography	Molecular Evolution
		JAMES HAY THEATRE	LIMES ROOM	CAMBRIDGE ROOM
10.30am		Evolutionary genomics in an emerging model system: speciation and adaptation in <i>Mimulus</i>	Phylogeography of common eiders SARAH A. SONSTHAGEN , SANDY L. TALBOT, RICHARD B. LANCOT, KIM T. SCRIBNER AND KEVIN G. McCACKEN	Evolution makes scents RICHARD NEWCOMB
10.45am		LILA FISHMAN University of Montana	Multi-locus phylogeography of the red-backed fairy-wren JUNE Y. LEE AND SCOTT V. EDWARDS	The influence of body size and net diversification rate on molecular evolution during the radiation of animal phyla ERIC FONTANILLAS
11.00am		Ecological genomics in natural populations of mice	Comparison of feather lice and host population structure reveals incongruent phylogeographic patterns ALICIA TOON , PETER B. MATHER AND JANE M. HUGHES	Tar1 is a suppressor of mitochondrial genetic conflict in <i>Saccharomyces</i> yeasts: a hypothesis ANT POOLE, TAKEHIKO KOBAYASHI AND AUSTEN R. D. GANLEY
11.15am		HOPI E. HOEKSTRA Harvard University	How do atoll stepping stones affect gene flow in Neritid snails? ERIC D. CRANDALL , JON TAFFEL, ERIC A. TREML AND PAUL H. BARBER	Explaining the time dependency of molecular rate estimates JACK DA SILVA AND ALAN COOPER
11.30am		Evolutionary genetics of <i>Daphnia</i>	Historical climate modeling informs patterns of endemism and phylogeography in the Brazilian Atlantic rainforest ANA CAROLINA Q. CARNIVAL AND CRAIG MORITZ	Molecular evolution of odourant receptors in moths COLM CARRAHER , RICHARD NEWCOMB AND ASTRID AUTHIER
11.45am		BRIAN D. EADS , JOHN K. COLBOURNE, JUSTEN ANDREWS AND MICHAEL LYNCH Indiana University	A likelihood framework for estimating phylogeographic history using geographically continuous genetic data ALAN R. LEMMON AND EMILY C. MORIARTY LEMMON	Regulation of the expression of antimicrobial peptide genes by Relish in the western honey bee HELGE SCHLÜNS AND ROSS H. CROZIER

Phylogenetic Theory and Methods	Sexual Selection	Empirical Population Genetics	Species Interactions	Plant Mating Systems
CONF. ROOMS 1 & 2	BREAKOUT ROOMS 6 & 7	BREAKOUT ROOMS 4 & 5	BREAKOUT ROOMS 1 & 2	BREAKOUT ROOM 3
Bayesian phylogenetic inference using random local molecular clocks ALEXEI J. DRUMMOND AND MARC A. SUCHARD	The peacock's train is an honest signal of genetic quality at the Major Histocompatibility Complex MARIE L. HALE , MARIJE H. VERDUIJN, KIRSTEN WOLFF AND MARION PETRIE	Polymorphism, recombination and divergence in wild zebra finch populations CHRISTOPHER N. BALAKRISHNAN AND SCOTT V. EDWARDS	Does microhabitat flexibility predict host specificity: experiments with feather lice SARAH E. BUSH	Synchronous protandry and the avoidance of inbreeding depression in <i>Trachymene incisa</i> (Apiaceae) YVONNE C. DAVILA AND GLENDA M. WARDLE
Efficient computation of gene tree probabilities under incomplete lineage sorting DAVID J. BRYANT AND NOAH A. ROSENBERG	Experimental evidence that sexual conflict influences the opportunity, form and intensity of sexual selection MATTHEW D. HALL , LUC F. BUSSIÈRE, JOHN HUNT AND ROBERT BROOKS	Temporal instability of weak genetic population structure in the endangered and endemic Hawaiian monk (<i>Monachus schauinslandi</i>) JENNIFER K. SCHULTZ , JASON BAKER, ROBERT J. TOONEN AND BRIAN W. BOWEN	Measuring the strength and nonlinear nature of species interactions in New Zealand's intertidal food webs MARK NOVAK	Does selfing provide reproductive assurance in the rock lily <i>Bulbine vagans</i> (Asphodelaceae)? MIKE RAMSEY AND GLENDA VAUGHTON
New approaches to maximum likelihood phylogenetic tree estimation SIMON WHELAN	Assortative pairing and divergent evolution in Darwin's small tree finch, <i>Camarhynchus parvulus</i> REBEKAH A. CHRISTENSEN AND SONIA M. KLEINDORFER	A wormy rendezvous: distribution of parasite genotypes across spatial scales TOMMY L. F. LEUNG , ROBERT POULIN AND DEVON B. KEENY	Using optimality models for analyzing the pollinator-prey conflict in carnivorous plants ANDREAS JÜRGENS , ASHRAF EL-SAYED, LINDA NEWSTROM-LLOYD AND DAVID MAX SUCKLING	Sex allocation in a metapopulation JOHN R. PANNELL
Missing data and gaps can positively mislead Bayesian and maximum likelihood phylogeny inference JEREMY M. BROWN , ALAN R. LEMMON, EMILY MORIARTY LEMMON AND KATHRIN STANGER-HALL	Bright ultraviolet signals and sexual selection in butterflies DARRELL J. KEMP	Genomics and population genetics of cis-regulatory regions of house finch (<i>Carpodacus mexicanus</i>) immune system genes during an epizootic NANCY CHEN AND SCOTT V. EDWARDS	Is selfing more advantageous than sex in <i>Drosera</i> due to the pollinator-prey conflict? AMBER R. SCILIGO , JON J. SULLIVAN, LINLEY K. JESSON, ANDREAS JÜRGENS, TAINA WITT, RODDY J. HALE AND LINDA NEWSTROM	<i>Amborella</i> , <i>Austrobaileya</i> and the water lilies — basal angiosperms and the devo-evo of pollen-carpel interactions JOSEPH H. WILLIAMS
Factors contributing to systematic biases in phylogenetic tree shape TRACY A. HEATH AND DAVID M. HILLIS	Back to the bush: sexual selection in wild zebra finches SIMON C. GRIFFITH , ALISON N. RUTSTEIN AND BARBARA TSCHIRREN	Clear genetic boundaries observed between Atlantic salmon (<i>Salmo salar</i>) populations in northern Europe ANNI TONTERI , JAAKKO LUMME, CRAIG R. PRIMMER, ALEXEI VESELOV AND SERGEY TITOV	No talk currently scheduled in this time slot. Please check addendum.	Combined vs separate sexes in the land plant clade PHIL. J. GARNOCK-JONES AND LINLEY K. JESSON
Phylogenetic applications of mixture models and networks KLAUS P. SCHLIEP , BARBARA R. HOLLAND, MIKE HENDY AND DAVID PENNY	Dissecting geographical divergence in multiple sexually-selected characters STEVE CHENOWETH , HOWARD RUNDLE AND MARK BLOWS	"Oh mother, when art thou?" Low mitochondrial DNA diversity in long-finned pilot whales ALANA M. ALEXANDER , C. SCOTT BAKER, SHANE D. LAVERY, HOWARD A. ROSS AND MARC OREMUS	No talk currently scheduled in this time slot. Please check addendum.	The influence of local adaptation on mating system evolution in plants CRISPIN Y. JORDAN AND SARAH P. OTTO

Monday, 18 June – 1.30-3.00pm

SSE Symposium Ecological Genomics of Model Eukaryotes <i>Coordinators: John McKay & John R. Stinchcombe</i>		Ernst Mayr Award Competition	Systematics
JAMES HAY THEATRE		LIMES ROOM	CAMBRIDGE ROOM
1.30pm	Evolutionary analysis of genes underlying human variation MATTHEW HAHN Indiana University	Applications of phylogenetics in ancient DNA analysis SIMON Y. W. HO University of Oxford	Radiation of Australian Rattus: molecular systematics and pheromone receptors KEVIN C. ROWE , CRAIG MORITZ AND PETER R. BAVERSTOCK
1.45pm		Geological and climatic forces driving speciation in the continental distributed trilling chorus frogs (<i>Pseudacris</i>) EMILY C. MORIARTY LEMMON , ALAN R. LEMMON AND DAVID C. CANNATELLA University of Texas at Austin	Revisiting the logical basis for the use of continuous characters MATT A. M. RENNER , ELIZABETH A. BROWN AND GLENDA M. WARDLE
2.00pm	The genetic architecture of thermotolerance in <i>Drosophila</i> THEODORE J. MORGAN , MARY ANNA CARBONE, JULIEN AYROLES AND TRUDY F. C. MACKAY Kansas State University	Parallel evolution of flightlessness in rails (Aves: Rallidae) from Oceania: systematics of <i>Gallirallus</i> JEREMY J. KIRCHMAN New York State Museum	Loss of parasitism in dermanyssoid mites ROBERT H. CRUICKSHANK , MATTHEW D. SHAW AND ADRIAN M. PATERSON
2.15pm		The origin and evolution of the treponematoses: a phylogenetic approach KRISTIN N. HARPER , HSI LIU, BRETT M. STEINER, ROBERT W. GEORGE, MICHAEL S. SILVERMAN, SHELLY BOLOTIN, ALLAN PILLAY, NIGEL J. SAUNDERS, PAOLO S. OCAMPO AND GEORGE J. ARMELAGOS Emory University	Molecular phylogeny and evolution of river dolphins: integration of mitochondrial DNA and SINE flanking sequences YING CAO , HIDETOSHI SHIMODAIRA, DING WANG AND MASAMI HASEGAWA
2.30pm	Ecological genetics of photoperiod sensitivity in <i>Arabidopsis thaliana</i> JOHN R. STINCHCOMBE University of Toronto	Is the Pleistocene all there is... untangling the effects of past climate and current environment on the phylogeography of a funnel web spider AMBER S. BEAVIS , PAUL SUNNUCKS AND DAVE M. ROWELL The Australian National University	Resolving sciurognath rodent relationships with multiple nuclear genes CONRAD A. MATTHEE AND CLAUDINE MONTGELARD
2.45pm		Microevolution of the common skink species complex (<i>Oligosoma nigriplantare</i>) in relation to the New Zealand landscape LIBBY LIGGINS , DAVID G. CHAPPLE, CHARLES H. DAUGHERTY AND PETER A. RITCHIE Victoria University of Wellington	Taming the African shrews: concordance among independent data sets SANDI WILLOWS-MUNRO AND CONRAD MATTHEE

Conservation Biology	Biogeography	Inbreeding	Behaviour/ Social Evolution	Plant Mating Systems
CONF. ROOMS 1 & 2	BREAKOUT ROOMS 6 & 7	BREAKOUT ROOMS 4 & 5	BREAKOUT ROOMS 1 & 2	BREAKOUT ROOM 3
Innate variation in eye-parasite resistance and anti-predation behavior in juvenile Arctic charr RAINE KORTET, TIINA LAUTALA, JOUNI TASKINEN, HEIKKI HIRVONEN AND DEREK ROFF	Downunder in Downunder: what do inundated islands tell us about long distance dispersal? ADRIAN M. PATERSON, KAREN ARMSTONG, STEPHEN TREWICK AND HAMISH CAMPBELL	Purging vs fixation of the genetic load in <i>Brassica rapa</i> DONALD M. WALLER AND ANDREW BERSCH	Bayesian approaches to complex systems: the evolution and loss of nest-weaving behaviour in ants SIMON K. ROBSON, ANDY T. BECKENBACH, RUDY J. KOHOUT, MICHAEL T. HENSHAW AND ROSS H. CROZIER	Mast flowering in prairie grasses and forbs MARK J. MCKONE AND ALEX J. FORDE
Estimating population densities of the endemic sand dune lizard (<i>Sceloporus arenicolus</i>) NICOLE SMOLENSKY AND LEE A. FITZGERALD	Splendid isolation: the great American biotic interchange in birds JASON T. WEIR AND DOLPH SCHLUTER	Reproduction and inbreeding in the red flour beetle (<i>Tribolium castaneum</i>) LUKASZ K. MICHALCZYK, MATT GAGE, BRENT EMERSON AND OLIVER MARTIN	Dynamics of Machiavellian intelligence SERGEY GAVRILETS	Why does New Zealand have so many dioecious plant species? A new hypothesis for the global distribution of dioecy SUMMER A. SCOBELL AND THEODORE H. FLEMING
Major histocompatibility complex (MHC) patterns in salmonids: a phylogenetic and functional analysis WADE D. WILSON AND THOMAS F. TURNER	Historical and contemporary population structure of the southern Australian intertidal barnacle <i>Catomerus polymerus</i> KATHERINE L. YORK AND BELINDA R. APPLETON	No evidence of inbreeding avoidance in reintroduced island populations of New Zealand robins and saddlebacks IAN G. JAMIESON, LISA TRACY AND SABRINA S. TAYLOR	Song evolution in Darwin's finches SARAH K. HUBER AND JEFFREY PODOS	Correlated evolution of mating system in mosses MONIQUE A. CRAWFORD, LINLEY K. JESSON AND PHIL J. GARNOCK-JONES
Multilocus MHC and parasite diversity in an endangered non-model cyprinid MEGAN J. OSBORNE AND THOMAS F. TURNER	Maximum-likelihood inference of geographic range evolution RICHARD REE AND STEPHEN SMITH	The relationships between inbreeding, fitness and multilocus heterozygosity in a pedigree population of the endangered takahē CATHERINE E. GRUEBER AND IAN G. JAMIESON	Fitness related consequences of behavioural phenotypes in a social lizard, <i>Egernia whitii</i> GEOFFREY M. WHILE, DAVID L. SINN AND ERIK WAPSTRA	Baker's law in metapopulation or when does selfing provide reproductive assurance ANTOINE DORNIER, FRANÇOIS MUÑOZ AND PIERRE-OLIVIER CHEPTOU
Identifying ESUs from multiple genetic markers: a case study using Whitaker's skink KIMBERLY A. MILLER, DAVID G. CHAPPLE AND PETER A. RITCHIE	The biogeography of agamid lizards in Central Asian deserts: a phylogenetic approach to testing hypotheses of diversification in association with aridification JOSHUA M. HALE, JANE MELVILLE, GEORGIA MANTZIOU, NATALIA ANANJEEVA AND NICHOLAS CLEMENN	Influence of genetic load on dynamics of dominance and frequency of self-incompatibility alleles: models and application to <i>Arabidopsis thaliana</i> VIOLAINNE C. LLARENDS, SYLVAIN BILLIARD, VINCENT CASTRIC AND XAVIER VEKEMANS	Kin recognition by MHC genotype matching in frog tadpoles JANDOUWE VILLINGER AND BRUCE WALDMAN	<i>No talk currently scheduled in this time slot. Please check addendum.</i>
The SLOSS of the penguin: do yellow-eyed penguins exhibit single large or several small populations? SANNE BOESSENKOOL, JONATHAN M. WATERS AND PHILIP J. SEDDON	A temporal and spatial history of the gekkotan lizards of the world AARON M. BAUER, TODD R. JACKMAN, ELI GREENBAUM AND TONY GAMBLE	MUP not MHC genotype determines inbreeding avoidance in wild-derived mice in semi-natural populations AMY L. SHERBORNE, MICHAEL D. THOM, STEVE PATERSON, JANE L. HURST, FRANCINE JURY, WILLIAM E. R. OLLIER, PAULA STOCKLEY AND ROBERT J. BEYNON	Multigene phylogeny reveals eusociality evolved twice in vespid wasps SYDNEY A. CAMERON, JAMES H. HUNT, TIMOTHY K. O'CONNOR, HEATHER M. HINES AND JOSEPH J. GILLESPIE	<i>No talk currently scheduled in this time slot. Please check addendum.</i>

Monday, 18 June – 3.30-5.00pm

	JAMES HAY THEATRE	LIMES ROOM	Ernst Mayr Award Competition Systematics
3.30pm		<p>Bayesian molecular dating using multi-locus data sets: problems and solutions</p> <p>MATTHEW C. BRANDLEY University of California, Berkeley</p>	<p>Improving phylogenetic resolution in AFLP fingerprinting studies by tuning automated scoring parameters</p> <p>BARBARA R. HOLLAND, ANDREW C. CLARKE AND HEIDI M. MEUDT</p>
3.45pm		<p>Hybridization and genotype of a foundation tree drive hierarchical population structure in the poplar bud gall mite, <i>Aceria parapopuli</i></p> <p>LUKE M. EVANS, GERARD J. ALLAN, SCOTT A. WOOLBRIGHT AND THOMAS G. WHITHAM Northern Arizona University</p>	<p>Molecular phylogeny of Antarctic ameronothroids</p> <p>ELIZABETH MORTIMER, BETTINE JANSEN VAN VUUREN, SAVEL R. DANIELS, DAVID MARSHALL, PETER CONVEY AND STEVEN CHOWN</p>
4.00pm	No talks scheduled	<p>Ancient DNA from sediments: potential and pitfalls</p> <p>JAMES S. HAILE Oxford University</p>	<p>Phylogenetic analysis of sphenisciform birds based on retroposon insertion patterns</p> <p>MAIKO WATANABE, MASATO NAIKIDO, TOMI T. TSUDA, DAVID P. MINDELL, KOICHI MURATA AND NORIHIRO OKADA</p>
4.15pm		<p>Genetic evidence of song learning in the three-wattled bellbird <i>Procnias tricarunculata</i> (Cotingidae): an independent evolutionary origin of vocal learning in the suboscine passerines</p> <p>VINODKUMAR SARANATHAN, DEBORAH HAMILTON, GEORGE V. N. POWELL, DON E. KROODSMA AND RICHARD O. PRUM Yale University</p>	<p>From Africa to Papua New Guinea: geographic structure of the poison tree, <i>Antiaris toxicaria</i> (Moraceae), based on ITS sequence data</p> <p>WENDY CLEMENT AND GEORGE WEIBLEN</p>
4.30pm	Fisher Prize Lecture		<p>A species flock of <i>Eophreatoicus</i> (Crustacea; Isopoda) from Kakadu (Australia)</p> <p>GEORGE D. F. WILSON, CHRISTOPHER L. HUMPHREY, KAREN GRAY, DONALD COLGAN AND REBECCA JOHNSON</p>
4.45pm	Predicting long term adaptation in model organisms GUILLAUME MARTIN AND THOMAS LENORMAND CNRS, France	No talks scheduled	<p>Genetic variation in the hymenopteran parasitoid <i>Microctonus aethiopoides</i> concurs with weevil host rather than geography</p> <p>CRAIG B. PHILLIPS AND COR J. VINK</p>

Conservation Biology	Biogeography	Hybridisation	Behaviour/ Social Evolution	Natural Selection and Contemporary Evolution
CONF. ROOMS 1 & 2	BREAKOUT ROOMS 6 & 7	BREAKOUT ROOMS 4 & 5	BREAKOUT ROOMS 1 & 2	BREAKOUT ROOM 3
Phylogenetic diversity on split networks MINH Q. BUI, STEFFEN KLAERE AND ARNDT VON HAESELER	Age and origin of enigmatic megaherbs from the subantarctic islands STEVEN J. WAGSTAFF, ILSE BREITWIESER, CHRIS QUINN AND MOTOMI ITO	Hybridisation in the New Zealand <i>Pseudopanax</i> trees LARA D. SHEPHERD AND LEON R. PERRIE	A socio genomic study of unselfish worker sterility GRAHAM J. THOMPSON, ROBERT KUCHARSKI, RYSZARD MALESZKA AND BENJAMIN P. OLDROYD	Integrated selection in variable environments CAROL C. HORVITZ, TIM COULSON, SHRIPAD TULJAPURKAR AND DOUGLAS W. SCHEMSKE
Sex allocation theory aids species conservation BRUCE C. ROBERTSON, GRAEME P. ELLIOTT, DARYL K. EASON, MICK N. CLOUT AND NEIL J. GEMMELL	The genic and genomic basis of range in North American angiosperms SARA L. MARTIN AND BRIAN C. HUSBAND	High levels of gene flow but low levels of hybrid progeny in genetically divergent taxa of the <i>Acacia saligna</i> species complex of southwestern Australia MELISSA A. MILLAR AND MARGARET BYRNE	Nest site selection and social interactions in wild zebra finch MYLENE MARIETTE AND SIMON C. GRIFFITH	Anthropogenic habitat alteration affects the strength and form of natural selection in the brown anole (<i>Anolis sagrei</i>) ERIN MARNOCHA, RYAN CALSBEEK AND THOMAS B. SMITH
DNA registers for monitoring trade of turtles ERIKA A. ALACS, ARTHUR GEORGES AND NANCY FITZSIMMONS	Biogeography and radiation of the southern African-Australian disjunct subtribe Arctotidinae (Asteraceae) ROBERT J. MCKENZIE AND NIGEL P. BARKER	The next generation: fitness of <i>Ipomopsis</i> (Polemoniaceae) hybrids in the wild DIANE R. CAMPBELL, NICKOLAS M. WASER, GEORGE ALDRIDGE AND CARRIE A. WU	Social inhibition of egg production and rates of change in a harem reef fish: implications for social stability- & sex allocation-theory STEFAN P. W. WALKER, MARK. I. MCCORMICK AND ASHLEY FRISCH	Natural selection on display coloration in chameleons DEVI STUART-Fox, ADNAN MOUSSALLI AND MARTIN J. WHITING
Effect of S allele diversity on the population viability of the rare forb <i>R. leptorrhynchos</i> ANDREW G. YOUNG, PETER H. THRALL, SUSAN E. HOEBEE AND MELINDA PICKUP	Rates of body size evolution in <i>Anolis</i> lizards GAVIN H. THOMAS	When the honeymoon ends: the fate of duplicated genes in allotetraploid <i>Tragopogon miscellus</i> (Asteraceae) JENNIFER A. TATE, ALEXANDRA R. BIGGER, KERRY A. SOLTIS, PAMELA S. SOLTIS AND DOUGLAS E. SOLTIS	Genomics/ Proteomics What can we learn from monkeys about human evolution? PHILIPP KHAI TOVICH, JANET KELSO, MEHMET SOMEL AND SVANTE PAABO	Silent night: adaptive disappearance of calling in a parasitized cricket population MARLENE ZUK AND ROBIN M. TINGHITELLA
Intraspecific hybridization, outbreeding depression and population differentiation in fragmented populations of <i>Rutidosis leptorrhynchos</i> (Asteraceae) MELINDA PICKUP, ANDREW YOUNG AND DAVID ROWELL	Out of Australia: dating the origin and diversification of the worldwide cicada tribe Cicadettini and its connection to the aridification of the Southern Hemisphere DAN VANDERPOOL, DAVID C. MARSHALL, KATHY B. R. HILL, MAX MOULDS AND CHRIS SIMON	Distinguishing hybridisation and lineage sorting SIMON JOLY AND PETER LOCKHART	Origins of spliceosomal introns DOUGLAS G. SCOFIELD AND MICHAEL LYNCH	Correlated variation of floral and physiological traits along a natural moisture availability gradient SUSAN C. LAMBRECHT
Is bigger better? Frugivores and the future of Afromontane forest fragments IHUMA JEROME, HAZEL CHAPMAN AND CALLISTRUS AKOSIM	Improving spatial prediction of phylogeographic and phenotypic diversity with surrogates of current environment and habitat history JASON B. MACKENZIE, SUSAN CAMERON, SIMON FERRIER, GLENN MANION, STEPHEN WILLIAMS AND CRAIG MORITZ	Hybrid vigor in tiger salamanders BENJAMIN M. FITZPATRICK	Complete plastid genome sequence of the Cryptomonad HAMEED KHAN, NATALIE PARKS, CATHERINE KOZERA, BRUCE A. CURTIS, SHAREN BOWMAN AND JOHN M. ARCHIBALD	Evolution is based on improvements in features of organisms but overall capabilities / fitness remains within limits PANKAJ VALLABH

Tuesday, 19 June – 8.30-10.00am

		ASN Vice-Presidential Symposium The Genetics of Colonizing Species Coordinator: Trevor Price	Phylogeography	Systematics
		JAMES HAY THEATRE	LIMES ROOM	CAMBRIDGE ROOM
8.30am		Evolution of behavioral integration and colonization of a novel environment	Fast mtDNA rates inferred from intra-species data: possible causes and consequences for phylogeographic studies ASTA AUDZIJONYTE , PHILLIP R. ENGLAND AND RISTO VÄINÖLÄ	Phylogenetic analyses of retroposed elements and sequence data further resolve the evolutionary history of Xenarthran mammals FREDERIC DELSUC , MAREN KRULL, GENNADY CHURAKOV, MARIELLA SUPERINA, JUERGEN BROSIUS, JUERGEN SCHMITZ AND EMMANUEL J. P. DOUZERY
8.45am		RENEE A. DUCKWORTH University of Edinburgh	Population structure and historical biogeography of the relictual marsupial <i>Dromiciops gliroides</i> ("monito del monte") in southern South America's temperate rainforest CHRISTOPHER M. T. HIMES AND G. J. KENAGY	An Anomuran tale continued: a phylogeny based on 18S rRNA KAREEN E. SCHNABEL , SHANE T. AHYONG, ELS W. MAAS AND PETER J. SMITH
9.00am		The role of rapid adaptive evolution and plasticity during plant invasions: common garden experiments using St. John's Wort, <i>Hypericum perforatum</i>	Biogeographic history of the rare and relictual sunset frog DANIELLE EDWARDS AND DALE ROBERTS	Phylogeny and biogeography of the holarctic bee genus <i>Andrena</i> LEAH L. LARKIN , SEBASTIEN PATINY AND JOHN ASCHER
9.15am		JOHN MARON AND MONTSERRAT VILA University of Montana	Good dispersers or cryptic species: testing phylogeographic predictions using rocky intertidal invertebrates in south-east Australia CECILE PERRIN , TODD E. MINCHINTON AND DAVID J. AYRE	The phylogenetic utility of POMC in assessing frog evolution KRISTIN A. HOOK AND DAVID C. CANNATELLA
9.30am		The evolution of dispersal during range-expansion: cane toads and the conquest of northern Australia	Granite outcrops as ancient islands in old landscapes: evidence from the phylogeography and population genetics of <i>Eucalyptus caesia</i> (Myrtaceae) in Western Australia MARGARET BYRNE AND STEPHEN HOPPER	Molecular evidence suggest remarkable cryptic diversity among South African velvet worms: a conservation conundrum SAVEL R. DANIELS
9.45am		BEN L. PHILLIPS University of Sydney	Range expansion and polyploidisation in New Zealand alpine <i>Ranunculus</i> RICHARD J. CARTER	Evolution of ploidy, perenniability, and (hummingbird) pollination in monkeyflowers and paintbrushes RICHARD G. OLSTEAD , PAUL M. BEARDSLEY AND DAVID C. TANK

Conservation Biology	Sexual Selection	Hybridisation	Genomics/ Proteomics	Evolution of Sex
CONF. ROOMS 1 & 2	BREAKOUT ROOMS 6 & 7	BREAKOUT ROOMS 4 & 5	BREAKOUT ROOMS 1 & 2	BREAKOUT ROOM 3
Improving eradication strategies using genetic tools: the example of rats introduced on islands JAWAD ABDELKRIM, MICHEL PASCAL AND SARAH SAMADI	Sexual selection and genetic variation KATRINA MCGUIGAN	Historical introgression and evidence for reproductive character displacement between sister species of Australian <i>Ogyris</i> butterflies at a biogeographic interface DANIEL J. SCHMIDT AND JANE M. HUGHES	Bayesian genome arrangement phylogeny and replicore balance in pathogenic <i>Yersinia</i> AARON E. DARLING, ISTVAN MIKLOS AND MARK A. RAGAN	Both costs and benefits of sex increase with decreasing frequency of sex DESIREE E. ALLEN AND MIKE LYNCH
The precautionary principle in action: conservation of a critically endangered New Zealand endemic TAMMY E. STEEVES, RICHARD MALONEY, MARIE L. HALE AND NEIL J. GEMMELL	Reinforcement and sexual selection: when evolutionary processes collide MEGAN HIGGIE AND MARK W. BLOWS,	The coexistence of hybrid and parental taxa — the role of parasites PIET SPAAK AND JUSTYNA WOLINSKA	Microsatellites: evolutionary signatures within genomes IRIS M. VARGAS JENTZSCH AND NEIL J. GEMMELL	The adaptive significance of temperature-dependent sex determination in a short-lived lizard DANIEL A. WARNER AND RICHARD SHINE
Ancestral hunting practices and patterns of genetic diversity in the Malagasy radiated tortoise (<i>Geochelone radiata</i>) SEBASTIEN RIOUX PAQUETTE, EDWARD E. LOUIS AND FRANCOIS-JOSEPH LAPONTE	Does the genetic basis of male sexually-selected traits change during display? EMMA HINE	When species merge: hybridization between grey duck and mallard in New Zealand WIEBKE MULLER	Enormous impact of end-Permian ecological catastrophe on the genome structure and evolution of land vertebrates DUSAN KORDIS	Sex and growth PHILLIP R. SMITH
Hidden population structure of Western North Pacific minke whales inferred from genetic analysis of Japanese and Korean market products SHANE LAVERY, C. S. BAKER, M. L. DALEBOUR, N. FUNAHASHI, MA YONG-UN, K. M. ROBERTSON, R. L. BROWNELL, JR AND F. CIPRIANO	A sexual signal becomes sexier under higher predation risk TAE WON KIM, JOHN H. CHRISTY AND JAE C. CHOE	A new reduction based algorithm to analyze the extent of hybridization MAGNUS BORDEWICH, SIMONE LINZ, KATHERINE ST. JOHN AND CHARLES SEMPLE	Conservation of microsatellites in mammalian genomes EMMANUEL BUSCHIAZZO AND NEIL J. GEMMELL	Sex in dragons: evolution of sex determining mechanisms in reptiles ALEXANDER E. QUINN, ARTHUR GEORGES, STEPHEN D. SARRE, TARIO EZAZ AND JENNY GRAVES
Maintaining genetic viability of threatened large skinks in New Zealand DIANNE M. GLEESON, GRANT NORBURY, JAMES REARDON AND OLIVER BERRY	Quantifying the effects of sexual selection BRIAN HOLLIS, JANNA FIERST AND DAVID HOULE	Introgression in New Zealand flax (<i>Phormium</i> spp.), hybridisation and reproductive isolation GARY J. HOULSTON, PETER B. HEENAN AND ROB SMISSEN	Rapid evolution in male-biased proteins explained by rapid evolution of introns PIERRE FONTANILLAS, MAX REUTER AND DANIEL L. HARTL	Parthenogenesis vs. sexuality in a freshwater snail: do population data coincide with evolutionary theory? LISA T. CRUMMETT AND MARTA L. WAYNE
Having our salmon, and eating it too? A test of the conservation outcomes of segregated hatchery populations of steelhead <i>Oncorhynchus mykiss</i> KERRY NAISH, LORENZ HAUSER, TODD SEAMONS, MICHAEL DAUER AND TOM QUINN	Sexual selection in the model yeast <i>Saccharomyces cerevisiae</i> DUNCAN GREIG	Consequences of mixed populations: a multi-generation experiment of hybridization under both stressful and benign conditions ANNMARIE S. HWANG AND SUZANNE EDMANDS	A lousy genome: the genome of the body louse of humans, <i>Pediculus humanus</i> EWEN F. KIRKNESS, RENFU SHAO, STEPHEN C. BARKER AND HUMAN BODY LOUSE GENOME CONSORTIUM	Why obligatory sex? LILACH HADANY AND TUVIK BEKER

Tuesday, 19 June – 10.30am-12.00pm

ASN Vice-Presidential Symposium The Genetics of Colonizing Species <i>Coordinator: Trevor Price</i>		Phylogeography	Systematics
	JAMES HAY THEATRE	LIMES ROOM	CAMBRIDGE ROOM
10.30am	The rôle of phenotypic plasticity and natural selection in the successful establishment of a population in a novel environment TREVOR PRICE University of Chicago	Phylogeography of the European common lizard (<i>Zootoca vivipara</i>): insights from mitochondrial DNA and AFLP data YANN SURGET-GROBA , BENOIT HEULIN AND CLAUDE P. GUILLAUME	Coral biodiversity is not as it appears; a phylogeny of <i>Porites</i> spp. ZAC H. FORSMAN AND CYTHIA L. HUNTER
10.45am		Phylogeography of a Hawaiian reef fish, the yellow tang (<i>Zebrasoma flavescens</i>) JEFF A. EBLE AND BRIAN W. BOWEN	Cranial morphometrics, genetics and taxonomy of the Circopithecini JACK A. COATE , HAYLEY GREEN AND DARREN CURNOE
11.00am	Does a big brain matter when invading novel environments? DANIEL SOL Ctr. Ecological Research & Appl. Foresteries, Spain	Fine-scale phylogeographic structure in Amazonian flooded forest fishes: a multispecies comparative study LUCIANO B. BEHEREGARAY AND NING L. CHAO	Phylogeny and evolution of Juncaceae based on comparison of molecular data from three genomes with special emphasis to monophyletic groups LENKA DRABKOVA AND JAN KIRSCHNER
11.15am		Discordant biogeographical patterns in New Zealand landsnails HAMISH G. SPENCER AND MARTYN KENNEDY	Nephilid spider phylogeny provides the evidence for sexually antagonistic coevolution MATJAZ KUNTNER
11.30am	Behavioral mechanisms of invasion success in social species	<i>No talk currently scheduled in this time slot. Please check addendum.</i>	Molecular phylogeny and evolution of prosimians based on complete sequences of mitochondrial DNAs ATSUSHI MATSUI , FELIX RAKOTONDRAPARANY, ISAO MUNECHIKA, MASAMI HASEGAWA AND SATOSHI HORAI
11.45am	ANDREW V. SUAREZ , DAVID HOLWAY AND NEIL TSUTSUI University of Illinois at Urbana	<i>No talk currently scheduled in this time slot. Please check addendum.</i>	Phylogenetic relationships of bubble-gum corals from New Zealand JUAN A. SANCHEZ AND LUISA DUEÑAS

Conservation Biology	Sexual Selection	Hybridisation	Theoretical Population Genetics	Evolution of Sex
CONF. ROOMS 1 & 2	BREAKOUT ROOMS 6 & 7	BREAKOUT ROOMS 4 & 5	BREAKOUT ROOMS 1 & 2	BREAKOUT ROOM 3
Phylogenetics and biodiversity conservation KLAAS HARTMANN AND MIKE STEEL	Sperm competition and siring success in the Peron's tree frog CRAIG D. H. SHERMAN, ERIK WAPSTRA AND MATS OLSSON	New Zealand stick insects MARY MORGAN-RICHARDS AND STEVE A. TREWICK	Frequency-dependent selection with mutation MEREDITH TROTTER AND HAMISH G. SPENCER	Genomic insights into the advantage of sex MATTHEW R. GODDARD AND DAVID GRESHAM
Microgeographic population structure in a subspecies of cutthroat trout VICTORIA L. PRITCHARD, JESSICA L. METCALF, ANDREW P. MARTIN AND DAVID COWLEY	Patterns of female parapatric evolution in the traumatically inseminating plant bug <i>Coridromius</i> NIKOLAI J. TATARNIC	Phylogeographic breaks and gene flow in the ring-species <i>Ensatinia eschscholtzii</i> RICARDO PEREIRA AND DAVID B. WAKE	Recurrent mutation in a spatial single-locus selection model BASTIAAN STAR AND HAMISH G. SPENCER	Population Ecology The maintenance of floral-color variation FRANK M. FREY
The value of an hybrid: lessons from giant Galapagos tortoises GISELLA CACCONE	Sex, flies and videotape: a study of morphology and mating behaviour in <i>Sepsidae</i> (Diptera) NALINI PUNIAMOORTHY AND RUDOLF MEIER	Candidate genes involved in plumage color variation in <i>Ficedula</i> flycatchers LAURA BUGGIOtti, GLEEN-PETER SAETRE AND CRAIG R. PRIMMER	Selection models for structured populations MICHAEL WHITLOCK	Phylogeography and population genetics of the endangered broad-headed snake, <i>Hoplocephalus bungaroides</i> JOANNA SUMNER, J SCOTT KEOGH, JONNO WEBB AND RICK SHINE
Parental effects on early-life survival and antipredator behaviour in Arctic charr — implications for conservation TIINA LAUTALA, DEREK A. ROFF AND HEIKKI HIRVONEN	Female choice in the mouse — disentangling inbreeding from heterozygosity at MUP and MHC MICHAEL D. THOM, AMY SHERBORNE, STUART ARMSTRONG, PAULA STOCKLEY, BILL OLLIER, FRANCINE JURY, STEVE PATERSON, ROB BEYNON AND JANE HURST	Swamping out rare genes: habitat fragmentation promotes interspecific hybridization in a woodland Eucalypt DAVID L. FIELD, ANDREW G. YOUNG, DAVID J. AYRE AND ROB J. WHELAN	The "abandon ship" hypothesis for the evolution of sex SARAH OTTO AND LILACH HADANY	An exploration of the consequences of gene flow and dispersal for population persistence in the Misty Lake system threespine stickleback (<i>Gasterosteus aculeatus</i>) JEAN-SÉBASTIEN MOORE AND ANDREW P. HENDRY
Ancient DNA reveals pre-exploitation demography in North Pacific megafauna: lessons from gray and humpback whales S. ELIZABETH ALTER AND STEPHEN R. PALUMBI	Maneaters: adaptive radiation of digestive proteases in <i>Drosophila</i> female reproductive tracts ERIN S. KELLEHER AND THERESE A. MARKOW	Education	Inbreeding and the pruning of family trees JOSEPH L. LACHANCE	Using ancient DNA to reconstruct pre-exploitation population structure in the northern fur seal, <i>Callorhinus ursinus</i> MALIN L. PINSKY, MARCEL VAN TUINEN, SETH D. NEWSOME AND ELIZABETH A. HADLY
'Canaries in the undergrowth' — using phylogenetic diversity of 'giant' springtails (Collembola: Uchidanurinae) of New Zealand and Australia as a surrogate for biodiversity indication MARK I. STEVENS	Sexual selection and the evolution of allometry: theory, evidence, and the irresistible allure of the Irish elk RUSSELL BONDURIANSKY		A new LENS tool: learning evolution and nature of science using Avida-ED digital evolution software ROBERT T. PENNOCK	Avoiding bias from sequencing error in population genetic estimates PHILIP L. F. JOHNSON AND MONTGOMERY SLATKIN

Tuesday, 19 June – 1.30-3.00pm

SSE Education Symposium An International Perspective on Teaching Evolution <i>Coordinator: Thomas R. Meagher</i>		Molecular Evolution	Conservation Biology
JAMES HAY THEATRE		LIMES ROOM	CAMBRIDGE ROOM
1.30pm	Extreme evolution: contrasting the US and the UK	Modelling mitochondrial heteroplasmy MICHAEL D. HENDY AND MICHAEL D. WOODHAMS	Lessons from multigenerational genetic monitoring of an endangered species THOMAS F. TURNER AND MEGAN J. OSBORNE
1.45pm	THOMAS R. MEAGHER University of St Andrews	Measuring pedigree evolution rates in Adelie penguins from mitochondrial heteroplasmy MICHAEL D. WOODHAMS, MICHAEL D. HENDY, ANDREW DODD AND DAVID LAMBERT	Genetic analysis of the endangered Asian yellow pond turtle (<i>Mauremys mutica</i>) and highly endangered Annam leaf turtle (<i>Mauremys annamensis</i>) JONATHAN J. FONG, JAMES F. PARHAM, HAITAO SHI, BRYAN L. STUART AND RONALD L. CARTER
2.00pm	What really happens in class — a survey of the US and Canada	Origin and evolution of mitochondrial genome duplications in Australian geckos of the <i>Heteronotia binoei</i> complex MATTHEW K. FUJITA, JEFFREY L. BOORE AND CRAIG MORITZ	Taxon selection for maximising phylogenetic diversity FABIO PARDI AND NICK GOLDMAN
2.15pm	ELIZABETH ELLE Simon Fraser University	Dosage as an important mechanism of duplicate gene retention in the tetraploid frog <i>Xenopus laevis</i> FREDERIC J. J. CHAIN AND BEN J. EVANS	<i>No talk currently scheduled in this time slot. Please check addendum.</i>
2.30pm	Comparative perspectives on teaching evolution	Occurrence, molecular diversity and putative role of <i>Wolbachia</i> in lac insect (<i>Keria lacca</i>) AMIT VASHISHTHA, H. M. CHAWLA, K. K. SHARMA AND SUMAN LAKHANPAUL	<i>No talk currently scheduled in this time slot. Please check addendum.</i>
2.45pm	PAUL B. RAINY University of Auckland	Evolution of MHC genes in tuatara (<i>Sphenodon</i>) HILARY C. MILLER	<i>No talk currently scheduled in this time slot. Please check addendum.</i>

Phylogenetic Theory and Methods	Biogeography	Phenotypic Plasticity	Theoretical Population Genetics	Coevolution
CONF. ROOMS 1 & 2	BREAKOUT ROOMS 6 & 7	BREAKOUT ROOMS 4 & 5	BREAKOUT ROOMS 1 & 2	BREAKOUT ROOM 3
On the nature of heterotachy <u>PETER J. LOCKHART</u>	→ EVOLUTION OF TROGLOBITIC AND GROUNDWATER FAUNA IN AUSTRALIA	Evolution and diversity of groundwater and troglobitic ecosystems in Australia: an overview <u>ANDREW D. AUSTIN</u> , STEVEN COOPER, WILLIAM F. HUMPHREYS AND WINSTON PONDER	Evolution of phenotypic plasticity in threespine stickleback <u>RICHARD SVANBÄCK</u> AND DOLPH SCHLUTER	Stressed? Do something for the common good! Stress and the evolution of altruism <u>TUVIK BEKER</u> AND LILACH HADANY
Lineage specific evolution <u>LIAT SHAVIT</u> , BARBARA R. HOLLAND, DAVID PENNY AND MICHAEL D. HENDY	→ EVOLUTION OF TROGLOBITIC AND GROUNDWATER FAUNA IN AUSTRALIA	A tale of different origins: pisicotic mesas in the Australian arid zone contain subterranean fauna with contrasting evolutionary histories <u>MARK S. HARVEY</u> , OLIVER F. BERRY, DAVID E. WALTER, KAREN EDWARD AND GARTH HUMPHREYS	Size and fecundity responses to competition in plants <u>STEPHEN P. BONSER</u> AND BRENTON M. LADD	Bayesian coalescent inference of population history with variable dimensions <u>JOSEPH HELED</u> AND ALEXEI DRUMMOND
Supertree algorithms for phylogenies with nested taxa VINCENT BERRY, OLAF R. P. BININDA-EMONDS AND <u>CHARLES SEMPLE</u>	→ EVOLUTION OF TROGLOBITIC AND GROUNDWATER FAUNA IN AUSTRALIA	Molecular rates in subterranean diving beetles <u>REMKO LEIJS</u>	Proximate mechanisms driving sexual size dimorphism in protogynous reef fish <u>CHRISTOPHER A. RYEN</u> , PHILIP L. MUNDAY, STEFAN P. W. WALKER AND MARK I. MCCORMICK	Global and local parent selection for the Moran process <u>PETER A. WHIGHAM</u> AND GRANT DICK
Multivariate phylogenetic comparative analysis using explicit models of selection AARON A. KING, DAIHAI HE AND <u>MARGUERITE A. BUTLER</u>	→ EVOLUTION OF TROGLOBITIC AND GROUNDWATER FAUNA IN AUSTRALIA	Phylogeography of the ancient Australian Parabathynellidae <u>MICHELLE T. GUZIK</u> , STEVEN J. B. COOPER, JOO-LAE CHO, WILLIAM F. HUMPHREYS AND ANDY D. AUSTIN	No talk currently scheduled in this time slot. Please check addendum.	Macroevolution
Estimating speciation rate using a Markov chain Monte Carlo approach <u>NICOLAS SALAMIN</u>	→ SPECIAL SECTION ON EVOLUTION	Hidden diversity in the mound springs of the Great Artesian Basin <u>NICHOLAS P. MURPHY</u>	No talk currently scheduled in this time slot. Please check addendum.	Phylogenetics and adaptive radiation of Antarctic notothenioid fishes <u>THOMAS J. NEAR</u>
Strange vertebrate phylogenies: dad data, lousy models, or the truth? <u>GAVIN J. NAYLOR</u> AND DAVID L. SWOFFORD	→ SPECIAL SECTION ON EVOLUTION	Subterranean biodiversity in Western Australia's arid zone: DNA barcoding identifies groundwater invertebrates and reveals cryptic diversity <u>TESSA M. BRADFORD</u> , ADAM ALLFORD, CHRIS H. S. WATTS, WILLIAM F. HUMPHREYS, ANDREW D. AUSTIN AND STEVEN J. B. COOPER	No talk currently scheduled in this time slot. Please check addendum.	Relationship between frequency of co-occurrence and rate of morphological diversification in the darter genus <i>Percina</i> (Teleostei: Percidae) <u>ROSE L. CARLSON</u> , PETER C. WAINWRIGHT AND THOMAS J. NEAR
				No talk currently scheduled in this time slot. Please check addendum.

Tuesday, 19 June – 3.30-5.00pm

SSE Education Symposium An International Perspective on Teaching Evolution <i>Coordinator: Thomas R. Meagher</i>		Molecular Evolution	Speciation
	JAMES HAY THEATRE	LIMES ROOM	CAMBRIDGE ROOM
3.30pm	How students are prepared for college: a comparative analysis of secondary teaching of evolution LOUISE S. MEAD National Center for Science Education, USA	Linking Pgm allozyme and nucleotide variation in blue mussels CYNTHIA RIGINOS , ANTONINO S. CAVALLARO AND PAUL D. RAWSON	Origins and evolution of New Zealand <i>Pittosporum</i> (Pittosporaceae) CHRISSEN E. C. GEMMILL
3.45pm		Identification of Type II MADS Box Genes in <i>Helianthus annuus</i> DAVID M. WILLS AND JOHN M. BURKE	The stability and invasibility dynamics during and after competitive sympatric speciation AYSEGUL BIRAND AND ERNEST BARANY
4.00pm	Teaching first-year biology: an evolutionary approach	Patterns of vertebrate isochore evolution revealed by comparison of expressed genes JENA L. CHOJNOWSKI AND EDWARD L. BRAUN	Reproductive character displacement and reproductive isolation in praying mantids (Ciulfina: Liturgusidae) GREG I. HOLWELL AND MARIE E. HERBERSTEIN
4.15pm	SPENCER C.H. BARRETT University of Toronto	Can molecular drive explain the accumulation of DNA uptake sequences in bacterial genomes? HEATHER MAUGHAN , LINDSAY WILSON AND ROSEMARY J. REDFIELD	Molecular evolution of seminal proteins in field crickets LUANA MAROJA , JOSE ANDRES AND RICHARD G. HARRISON
4.30pm	Panel discussion	Lineage specific accelerated sequence divergence in <i>Drosophila</i> : identifying the targets and determining the evolutionary mechanisms ALISHA K. HOLLOWAY , ADAM SIEPEL, DAVID J. BEGUN AND KATHERINE S. POLLARD	Specification and diversification in the Caribbean lizard <i>Anolis roquet</i> HELENA JOHASSON , YANN SURGET-GROBA AND ROGER S. THORPE
4.45pm	Chair: LOUISE MEAD National Center for Science Education, USA	The effect of body size and covarying life history traits on rates of molecular evolution in invertebrates JESSICA A. THOMAS	Speciation in <i>Pachycladon</i> — a microarray approach CLAUDIA VOELCKEL , BART JANSEN, PETER HEENAN AND PETER LOCKHART

Phylogenetic Theory and Methods	Biogeography	Adaptation	Macroevolution	Comparative Biology
				CONF. ROOMS 1 & 2
CONF. ROOMS 1 & 2	BREAKOUT ROOMS 6 & 7	BREAKOUT ROOMS 4 & 5	BREAKOUT ROOMS 1 & 2	BREAKOUT ROOM 3
Markov invariants: informative statistics for phylogenetics <u>JEREMY SUMNER</u> AND PETER D. JARVIS	TROGLOBIOTIC FAUNA CONT... Comparative phylogeography of amphipod and isopod stygofauna from calcareous aquifers of central Western Australia <u>STEVEN J. B. COOPER</u> , KATHLEEN M. SAINT, REMKO LEIJU, JOHN H. BRADBURY, STEFANO TAITI, ANDREW D. AUSTIN AND WILLIAM F. HUMPHREYS	Information constraints on adaptation in the wild: sex allocation in the parasitic wasp <i>Nasonia vitripennis</i> <u>DAVID M. SHUKER</u>	Using ancient DNA to analyse evolutionary processes ALAN COOPER	Evolution of the courtship phenotype in the bird of paradise genus <i>Parotia</i> (Aves: Paradisaeidae) <u>EDWIN SCHOLES</u>
Rooting the eutherian tree — the power and pitfalls of phylogenomics <u>HIDENORI NISHIHARA</u> , NORIHIRO OKADA AND MASAMI HASEGAWA	Effects of environment, phylogeny and space on body sizes of terrestrial vertebrates <u>WALTER JETZ</u> AND ROB FRECKLETON	Significant responses to cell-lineage selection in the red seaweed, <i>Asparagopsis armata</i> <u>KEYNE MONRO</u> AND A. G. B. POORE	The statistical inevitability of "Gradualism" in Morphologically Similar Species <u>PINCELLI M. HULL</u> AND RICHARD D. NORRIS	Evolution of wing shape for sound production in Pipridae <u>KIMBERLY S. BOSTWICK</u> AND SHANNON HACKETT
Likelihood supertrees <u>ALLEN G. RODRIGO</u> AND MICHAEL A. STEEL	Speciation rates: contrasts across the New Zealand archipelago <u>STEVEN A. TREWICK</u> , JULIA GOLDBERG, ADRIAN M. PATERSON AND HAMISH J. CAMPBELL	Evolution of pelagic isopods (Asellota, Munnopsidae): phylogenetics, natural history, and adaptation <u>KAREN J. OSBORN</u>	Morphological and molecular evidence for the stepwise transition from teeth to baleen in mysticete whales <u>MICHAEL R. MCGOWEN</u> , THOMAS A. DEMERE, ANNALISA BERTA AND JOHN GATESY	Phylogenetic comparative analysis of the functional benefits and ecological constraints of sleep in mammals <u>ISABELLA CAPELLINI</u> , ROBERT A. BARTON, PATRICK McNAMARA, BRIAN PRESTON AND CHARLES NUNN
Detecting asymmetric Markov processes in aligned sequence data <u>LARS S. JERMIIN</u> , FAISAL ABABNEH, CHUNSENG MA AND JOHN ROBINSON	Incipient speciation in glaciation refugia: genetic differentiation and hybridization between two subspecies of acorn barnacles in NW Pacific <u>LING MING TSANG</u> , BENNY KWOK KAN CHAN, KA YAN MA AND KA HOU CHU	Natural selection on phytochromes through their effects on germination timing <u>KATHLEEN DONOHUE</u> , DEEPAK BARUA, COLLEEN BUTLER AND SHANE HESCHEL	Does ecology influence rates of phenotypic evolution on islands? <u>D. LUKE MAHLER</u>	The evolution of sexual size dimorphism and recent rapid morphological diversification in emydid turtles <u>PATRICK R. STEPHENS</u> AND JOHN J. WIENS
Aquifex in the bacterial phylogeny <u>BASTIEN BOUSSAU</u> AND MANOLO GOUY	Explaining the biogeography of South Pacific topshells <u>KIRSTEN M. DONALD</u> , MARTYN KENNEDY AND HAMISH G. SPENCER	Armor loss in fresh water threespine stickleback through predatory and correlated selection <u>KERRY B. MARCHINKO</u> AND DOLPH SCHLUTER	Exploring diversification patterns of extant land plants <u>HARALD SCHNEIDER</u>	The allometry of ratite eggs <u>MICHAEL R. DICKISON</u> AND V. LOUISE ROTH
No talk currently scheduled in this time slot. Please check addendum.	New Guinea reptiles and amphibians: patterns, processes, and megadiversity <u>CHRISTOPHER C. AUSTIN</u> , STEVE DONNELLAN, ALLEN ALLISON AND CHRISTOPHER HAYDEN	Identification of colocating seed oil QTL and candidate genes in <i>Arabidopsis</i> : a step toward identifying selected genes for a quantitative trait <u>ANUSHREE SANYAL</u> AND <u>C. RANDAL LINDER</u>	Evolution of optical microstructures on the wings of butterflies <u>SHELLEY WICKHAM</u> , <u>JULIA C. JONES</u> , TIZIANA BENINATI, MARYANNE C. J. LARGE, LEON POLADIAN AND LARS JERMIIN	Development and Evolution Evolution of herbivory in Beloniformes <u>RYAN D. DAY</u> AND IAN R. TIBBETTS

Wednesday, 20 June – 8.30-10.00am

SSB Symposium – Phylogenetic Diversity: Towards a Synthesis of Concepts and Applications for Biodiversity Conservation <i>Coordinators: Dan Faith & Arne Mooers</i>		Molecular Evolution	Speciation
JAMES HAY THEATRE		LIMES ROOM	CAMBRIDGE ROOM
8.30am	<p>Phylogenetic diversity and conservation: problems and prospects</p> <p>DANIEL P. FAITH The Australian Museum</p>	8.30am	<p>Heteroplasmy and mutation rates: technical and theoretical considerations</p> <p>ANDREW DODD, CRAIG D. MILLAR, MICHAEL D. WOODHAMS, MIKE HENDY AND DAVID M. LAMBERT</p> <p>Is hybrid seed failure among wild <i>Lycopersicon</i> associated with molecular divergence at reproductive loci?</p> <p>LEONIE C. MOYLE</p>
8.50am	<p>Links between phylogenetic diversity and evolutionary distinctiveness</p> <p>ARNE O. MOOERS, DAVID W. REDDING, KLAAS HARTMANN, MIKE STEEL AND WAYNE P. MADDISON Simon Fraser University</p>	8.45am	<p>Molecular epidemiology of feline immunodeficiency virus in domestic cats (<i>Felis catus</i>) of New Zealand</p> <p>JESS J. HAYWARD, JOHN TAYLOR AND ALLEN G. RODRIGO</p> <p>Comparative analysis of land snail radiations on Crete</p> <p>JAN SAUER AND BERNHARD HAUSDORF</p>
9.15am	<p>Measuring phylogenetic diversity and originality with quadratic entropy</p> <p>SANDRINE PAVOINE Museum National d'Histoire Naturelle, Paris</p>	9.00am	<p>Do small DNA viruses evolve as quickly as RNA viruses?</p> <p>SIOBAIN DUFFY AND EDWARD C. HOLMES</p> <p>An introgression approach to studying behavioral differences between <i>Drosophila simulans</i> and <i>D. sechellia</i></p> <p>JENNIFER M. GLEASON</p>
9.35am	<p>Phylogenetic diversity theory and computational challenges</p> <p>MIKE STEEL Allan Wilson Centre, Biomathematics Research Centre, University of Canterbury</p>	9.15am	<p>Plant mitochondrial polymorphism, divergence and mutation rate variation within the genus <i>Silene</i></p> <p>DANIEL B. SLOAN, CAMILLE BARR, MATTHEW S. OLSON AND DOUGLAS R. TAYLOR</p> <p>microRNA profile changes associated with reproductive isolation in <i>Xenopus</i></p> <p>PAWEŁ MICHALAK AND JOHN H. MALONE</p>
		9.30am	<p>Architectural constraints on genome evolution</p> <p>SINEAD A. COLLINS, CLAUDIA ACQUISTI AND JULIETTE DE MEAUX</p> <p>Hybridization in the endemic New Zealand brown alga <i>Carpophyllum</i></p> <p>JOE BUCHANAN AND JOE ZUCCARELLO</p>
		9.45am	<p>Frame-preserving 3' extensions of yeast genes suggest a role for the [PSI+] prion in evolvability</p> <p>JOANNA MASEL, MIKE G. GIACOMELLI AND ADAM S. HANCOCK</p> <p>Should allopatric speciation be the null hypothesis?</p> <p>KENDALL D. CLEMENTS</p>

Systematics	Biogeography	Adaptation	Evolution of Ecological Communities	Development and Evolution
CONF. ROOMS 1 & 2	BREAKOUT ROOMS 6 & 7	BREAKOUT ROOMS 4 & 5	BREAKOUT ROOMS 1 & 2	BREAKOUT ROOM 3
Hotspot or flypaper — phylogeny of local non-marine algae <u>PHIL M. NOVIS</u>	Riddle of the New Zealand beech gaps <u>MICHAEL KNAPP</u> , KAREN STOCKLER, PATRICK MARDULYN, DAVID HAVELL, MATT S. McGLONE AND PETER J. LOCKHART	Adaptive radiation of photosynthetic physiology in the Hawaiian Campanulaceae <u>REBECCA A. MONTGOMERY</u> AND THOMAS J. GIVNISH	Diversity and niche coevolution in consumer-resource communities <u>JÖRGEN RIPA</u> , LENA STORLIND, PER LUNDBERG AND JOEL BROWN	Cyclin G and the control of fluctuating asymmetry and individual variation in <i>Drosophila</i> <u>VINCENT DEBAT</u> , SEBASTIEN BLOYER, NICOLAS NAVARRO, FREDERIQUE PERONNET AND JEAN DEUTSCH
Pigeon evolution: integrating barcoding to the tree of life <u>GILLIAN C. GIBB</u> , JULIA GOLDBERG, STEVE TREWICK AND DAVID PENNY	Latitudinal diversity gradients in marine herbivorous fishes: why history matters <u>KENDALL CLEMENTS</u> AND HOWARD CHOAT	Local adaptation and co-gradient selection in the alpine plant, <i>Poa hiemata</i> , along a narrow altitudinal gradient <u>SEAN G. BYARS</u> , WARWICK PAPST AND ARY A. HOFFMANN	Integrating coalescent and ecological niche modeling in comparative phylogeography <u>CORINNE L. RICHARDS</u> AND BRYAN C. CARSTENS	Mechanisms underlying <i>Shh</i> expression expansion in the blind cavefish, <i>Astyanax mexicanus</i> <u>XIAOYUN REN</u> AND YOSHIYUKI YAMAMOTO
Fossils, morphology and genetics: evolution in a group of marine molluscs <u>SIMON F. K. HILLS</u>	Reexamining ecological niche conservatism in Mexican fauna using new analytical methods <u>DAN L. WARREN</u> , RICHARD E. GLOR AND MICHAEL TURELLI	Lizards as an example of adaptation in muscle fiber type composition in locomotor muscles <u>JEFFREY A. SCALES</u> AND MARGUERITE BUTLER	Evolutionary responses to environmental changes: how does competition affect adaptation? <u>JACOB JOHANSSON</u>	The evolution of segmentation <u>PETER K. DEARDEN</u> AND MEGAN WILSON
Molecular phylogeny of the raccoon family (Procyonidae: Carnivora) indicates pronounced morphological convergence <u>TARA L. FULTON</u> AND CURTIS STROBECK	Phylogeography of bull kelp (<i>Durvillaea</i>) and associated invertebrate fauna around the Southern Ocean: are kelp rafts effective vectors of marine dispersal? <u>CERIDWEN FRASER</u> , HAMISH G. SPENCER AND JONATHAN M. WATERS	Strength of natural selection along a cline of Scots pine <u>TIKO KNÜRR</u> , Katri KÄRKÄINEN AND <u>OUTI SAVOLAINEN</u>	Intra-specific competition drives multiple trophic polymorphism in fish communities <u>PETER EKLÖV</u> AND RICHARD SVANBÄCK	The NK homeobox gene cluster predates the origin of Hox genes <u>CLAIRE LARROUX</u> , BRYONY FAHEY AND BERNARD DEGNAN
Phylogeny of the microgastroid parasitic wasp subfamilies (Hymenoptera: Braconidae) based on sequence data from seven genes <u>NICHOLAS P. MURPHY</u> , JONATHON C. BANKS, JAMES B. WHITFIELD AND ANDREW D. AUSTIN	No talk currently scheduled in this time slot. Please check addendum.	Population structure and adaptive hemoglobin evolution in cinnamon teal (<i>Anas cyanoptera</i>) and puna teal (<i>A. puna</i>) <u>ROBERT E. WILSON</u> , CHRISTOPHER P. BARGER AND KEVIN G. McCracken	Why are there so many insect species in tropical rainforests? <u>GEORGE D. WEIBLEN</u>	The insulin receptor (InR) pathway may underlie the development and evolution of nutrition-dependent phenotypic plasticity and allometry in insects <u>DOUGLAS J. EMLEN</u> , BEN EWEN-CAMPEN, WENDY A. SMITH AND LAURA CORLEY-LAVINE
No talk currently scheduled in this time slot. Please check addendum.	No talk currently scheduled in this time slot. Please check addendum.	Fitness costs of circadian disorganization in natural populations <u>KEVIN J. EMERSON</u> , WILLIAM E. BRADSHAW AND CHRISTINA M. HOLZAPFEL	The theory of ecology or do ecologists have GUTs? <u>SAMUEL M. SCHEINER</u> AND MICHAEL R. WILLIG	Origin and evolution of metamorphosis and thyroid hormone receptors in chordates <u>MATHILDE PARIS</u> , HECTOR ESCRIVA, MICHAEL SCHUBERT, FREDERIC BRUNET, JULIUS BRTKO, VALÉRIE VIVAT, FABRICE CIESIELSKI, JEAN-PIERRE CRAVEDI, JEAN-PAUL RENAUD, NICHOLAS D. HOLLAND AND VINCENT LAUDET

Wednesday, 20 June – 10.30am-12.00pm

SSB Symposium – Phylogenetic Diversity: Towards a Synthesis of Concepts and Applications for Biodiversity Conservation <i>Coordinators: Dan Faith & Arne Mooers</i>		Molecular Evolution	Speciation
JAMES HAY THEATRE		LIMES ROOM	CAMBRIDGE ROOM
10.30am	<p>Towards practical phylogenetic diversity analyses for conservation biologists</p> <p>DAN F. ROSAUER AND SHAWN W. LAFFAN University of New South Wales</p>	10.30am	<p>Cartilaginous fishes and the evolution of corticosteroid receptors</p> <p>SEAN M. CARROLL, JAMIE T. BRIDGHAM, B. SCOTT NUNEZ AND JOSEPH W. THORNTON</p>
10.50am	<p>Phylogenetic diversity at the mesoscale in South Africa</p> <p>VINCENT SAVOLAINEN, FELIX FOREST AND RICH GRENYER Jodrell Laboratory, Kew Gardens</p>	10.45am	<p>The rapid evolution of sperm storage proteins: analysis of <i>Drosophila</i> spermathecae genes</p> <p>ADRIANNE M. PROKUPEK, SEONG-IL EYUN, ETSUKO MORIYAMA AND LAWRENCE G. HARSHMAN</p>
11.15am	<p>Conservation prioritization and climate change impacts on the phylogenetic diversity of endemic rainforest flora and fauna</p> <p>SUSAN E. CAMERON University of California, Davis</p>	11.00am	<p>Base compositional bias in mammalian mitochondrial genomes</p> <p>SANKAR SUBRAMANIAN</p>
11.35am	<p>Phylogenetic diversity at the community level: some results and prospects</p> <p>MICHAEL J. DONOGHUE Peabody Museum, Yale University</p>	11.15am	<p>Simulation models of prebiotic evolution of genetic coding</p> <p>SIDNEY MARKOWITZ, ALEXEI DRUMMOND AND PETER R. WILLS</p>
		11.30am	<p>Speciation or just local variation? Rapid morphological & ecological diversification in New Zealand <i>Craspedia</i> (Asteraceae: Gnaphalieae)</p> <p>KERRY A. FORD, ROB D. SMISSEN AND ILSE BREITWIESER</p>
		11.45am	<p>The future of molecular clocks</p> <p>LINDELL BROMHAM</p>
			<p>The evolution of the New Zealand Gnaphalieae: the more we know, the more we don't know</p> <p>ILSE BREITWIESER, JOSEPHINE M. WARD AND ROB D. SMISSEN</p>
			<p>Another data set, another tree topology. Phylogenetic incongruence, the legacy of partial reproductive isolation in the <i>Raoulia</i> generic alliance?</p> <p>ROB D. SMISSEN AND ILSE BREITWIESER</p>

Evolutionary Theory	Molecular Anthropology	Adaptation	Evolution of Ecological Communities	
CONF. ROOMS 1 & 2	BREAKOUT ROOMS 6 & 7	BREAKOUT ROOMS 4 & 5	BREAKOUT ROOMS 1 & 2	BREAKOUT ROOM 3
Is Darwinism an exhausted paradigm? <u>MICHAEL RUSE</u>	Maui's Ark — commensal models for the human settlement of the Pacific <u>ELIZABETH A. MATISOO-SMITH</u> , JUDITH ROBINS, ALICE STOREY AND MELANIE HINGSTON	Adaptive evolution of an insect introduced to New Zealand for biological control <u>CRAIG B. PHILLIPS</u> , COR J. VINK, ILIA ILINE, LOUISE WINDER, MARK R. MCNEILL, JOHN M. KEAN AND DAVID B. BAIRD	Ecological diversification and evolutionary patterns in desert lizard communities <u>JANE E. MELVILLE</u> AND LUKE HARMON	
Quasispecies evolution in subdivided populations: survival of the steepest <u>BRENDAN D. O'FALLON</u> , FRED R. ADLER AND STEPHEN PROULX	Human mtDNA phylogenies and Pacific prehistory <u>MELANIE J. PIERSON</u> , BRAD FRIS, DAVID PENNY AND NEIL GEMMELL	Evolutionary divergence in a common ectoparasite of coral reef fishes <u>LAURA NAGEL</u> , ROBERT MONTGOMERIE AND STEPHEN LOUGHEED	Landscape genetics and the spread of chronic wasting disease in western Canadian ungulates <u>GREGORY A. WILSON</u> , STEPHANIE NAKADA, TRENT BOLLINGER AND DAVID W. COLTMAN	
Sex-specific selection, sex-linkage, and dominance in genomic imprinting <u>JEREMY VAN CLEVE</u> AND MARCUS W. FELDMAN	Prehistoric human contact between Polynesia and South America? DNA analysis of the sweet potato and bottle gourd <u>ANDREW C. CLARKE</u> , ROGER C. GREEN, BARBARA R. HOLLAND, PATRICIA A. McLENNACHAN AND DAVID PENNY	Food availability may explain adaptive shifts in island birds <u>BETH E. SCHLOTFELDT</u> AND SONIA KLEINDORFER	Measurement of biological information with applications from genes to landscapes <u>WILLIAM B. SHERWIN</u> , FRANCK JABOT, REBECCA RUSH AND MAURIZIO ROSETTO	
The evolution of evolvability in gene network models <u>JEREMY A. DRAGHI</u> AND GUNTER P. WAGNER	Kakahu: unravelling the history of Maori feather cloaks using ancient DNA <u>KATIE HARTNUP</u> , LARA SHEPHERD, LEON HUYNHEN AND DAVID LAMBERT	I'll show you my fish gut if you show me yours! Evolution of herbivory in a carnivorous clade <u>DONOVAN P. GERMAN</u> AND DAVID H. EVANS	No talk currently scheduled in this time slot. Please check addendum.	No talks scheduled
The evolution of epigenetic inheritance systems under competition with irreversible mimics <u>ALEX K. LANCASTER</u> , CHRISTINE LAMANNA AND JOANNA MASEL	Admixture between Archaic hominids and modern humans: structured coalescent analysis of RRM, a candidate locus on the X-chromosome <u>MURRAY P. COX</u> AND MICHAEL F. HAMMER	Bleaching resistance in corals <u>LAURA NAGEL</u> , ROBERT MONGOMERIE AND STEPHEN LOUGHEED	No talk currently scheduled in this time slot. Please check addendum.	
Expected anomalies in the fossil record <u>MAREIKE FISCHER</u> AND MIKE STEEL	Bayesian coalescent analysis of mtDNA diversity reveals a major Southern Asian chapter in human prehistory <u>QUENTIN D. ATKINSON</u> , RUSSELL D. GRAY AND ALEXEI J. DRUMMOND	Multiple selective gradients determine patterns of morphological and performance evolution in a clade of tropical lizards <u>BRETT A. GOODMAN</u> , DONALD B. MILES AND LIN SCHWARZKOPF	No talk currently scheduled in this time slot. Please check addendum.	

Wednesday, 20 June – 1.30-3.00pm and 3.30-5.00pm

JAMES HAY THEATRE	
1.30pm	Dobzhansky Prize Winner Lecture Somatic evolution of cancer FRANZiska Michor Harvard University
2.30- 3.00pm	ASN Symposium Young Investigators <i>Coordinator: Robert D. Holt</i> The evolution of spite Andy Gardner University of Edinburgh

Coffee Break

JAMES HAY THEATRE	
3.30pm	ASN Symposium Young Investigators <i>Coordinator: Robert D. Holt</i> Investigating the selective value of sex and recombination MAURINE NEIMAN University of St. Thomas
4.00pm	Speciation by one allele, one ovule, and one environment DANIEL ORTIZ-BARRIENTOS University of British Columbia
4.30- 5.00pm	Turnover of sex chromosomes induced by sexual conflict G. Sander van Doorn AND MARK KIRKPATRICK Santa Fe Institute

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Poster Session: Sunday, 17 June – 8.30-11.00pm

Adaptation		
001	Genotype × stress interactions and adaptability in <i>Drosophila melanogaster</i>	JAMES N. THOMPSON, JR, CLAYTON N. HALLMAN, PATRICK W. RISCH, AARON F. BENHAM, JEFFREY CUMMINGS, ANDREW HILL, MICHAEL HOOD, HIRO MATSUMOTO, NOBU TAKEMORI AND RON C. WOODRUFF
002	Evolution toward asymmetrical gaits in neotropical spiny rats (Rodentia: Echimyidae): evidences favoring adaptation	PEDRO L. B. ROCHA, SABINE RENOUS, ANICK ABOURACHID AND ELIZABETH HOFLING
003	The evolution of bleaching resistance in corals	TROY DAY, LAURA NAGEL AND JULIAN CALEY
004	The Hitchhiker's Guide to the Genome: insecticide resistance in the sheep blowfly, <i>Lucilia cuprina</i>	CAROLINE J. ROSE, JOANNA CHAPMAN, SEAN MARSHALL, HOWARD ROSSAND RICHARD NEWCOMB
005	Modeling the rate of evolution in symbioses:bleaching resistance in corals	TROY DAY, LAURA NAGEL AND JULIAN CALEY
006	Local adaptation to soils in a ground-dwelling mygalomorph spider	AMBER S. BEAVIS AND SARA G. BEAVIS
007	Master of them all: performance specialization does not result in trade-offs in tropical lizards	BRETT A. GOODMAN, ANDREW K. KROCKENBERGER AND LIN SCHWARZKOPF
Animal Mating/Breeding Systems		
008	Neurotropic stress modify the steroidial background of egg-laying in domestic turkey	PÉTER PÉCZELY, ZSUZSANNA SZOKE AND VÉGI BARBARA
009	Paternity analysis in the Mona iguana (<i>Cyclura cornuta stejnegeri</i>)	KEYSA G. ROSAS, JENNY P. ACEVEDO, STEPHAN M. FUNK, W. OWEN McMILLAN AND NESTOR PÉREZ-BUITRAGO
010	Mating system and sexual dimorphism in gannets and boobies	CLAIRE DANIEL, CRAIG D. MILLAR AND MARK E. HAUBER
Behaviour/Social Evolution		
011	Experience changes pollinator responses to floral display size: from size-based to reward-based foraging	TAKASHI T. MAKINO AND SATOKI SAKAI
012	Trapline foraging by bumble bees: direct and indirect effects of foraging experience on competitive ability	KAZUHARU OHASHI, ALISON LESLIE, DANIEL D'SOUZA AND JAMES D. THOMSON
013	Fierce females: variation in intrasexual aggression among tuatara	KRISTINA M. RAMSTAD, JENNIFER A. MOORE AND JEANINE M. REFSNIDER

Biogeography		
014	Dragons in the mist — origin and diversification of the austral genus <i>Dracophyllum</i> (Ericaceae)	STEVE J. WAGSTAFF, MURRAY I. DAWSON, STEPHANUS VENTER, JÉRÔME MUNZINGER, DARREN M. CRAYN, DOROTHY A. STEANE AND KRISTINA L. LEMSON
015	An ice worm cocktail: what can ice worms tell us about glacial history of the North American Pacific coastal ranges?	PETER H. WIMBERGER AND BEN D. LEE
016	All aboard the emergent ark: dipsersal from New Zealand to the Chatham Islands	NATHAN CURTIS, ADRIAN PATERSON AND PHIL SIRVID
017	<i>Talitropsis</i> and relative dimensions in space: phylogeography of a New Zealand cave cricket (Orthoptera: Raphidophoridae)	JULIA GOLDBERG AND STEVE TREWICK
Bioinformatics/Phyloinformatics		
018	Mapping microbial communities with UniFrac	MICAH HAMADY, CATHERINE LOZUPONE AND ROB KNIGHT
019	Inferring Lapita colonisation of the Pacific by phylogenetic analysis of commensal rats (<i>Rattus exulans</i>)	MELANIE HINGSTON, JUDITH H. ROBINS, ELISABETH MATSOU-SMITH AND HOWARD A. ROSS
020	SeqStatus, a database template for the integrated management of molecular phylogenetic labs	KEVIN C. ROWE, SCOTT J. STEPPAN AND MICHAEL L. RENO
Coevolution		
021	A synthesis of experimental work on parasite local adaptation	MEGAN A. GREISCHAR AND BRITT KOSKELLA
022	A fungal endophyte (<i>Epichloe typhina</i>) changes palatability of its host grass <i>Puccinellia distans</i>	PAWEŁ OLEJNICZAK, MARCIN CZARNOLESKI, PAULINA MIKOŁAJCZYK, JAN KOZŁOWSKI, KATARZYNA TURNAU, DOBROSLAWA BIAŁONSKA AND MARLENA LEMBICZ
023	Cospeciation of pollinating fig wasps and their parasitic nematodes	ELLEN O. SUURMEYER AND CARLOS A. MACHADO
024	Spacial scales of geographically-structured coevolution	HIROKAZU TOJU
Comparative Biology		
025	Complementary morphological adaptation of the male and female reproductive tracts in the old endemic rodent genus <i>Notomys</i> — an association with divergent copulatory behaviour	WILLIAM G. BREED, CHRISTOPHER M. LEIGH AND NATASHA SPEIGHT
026	Evolution of activity responses and tolerance of cool temperature in New Zealand reptiles: do nocturnal species perform better?	ANNE A. BESSON AND ALISON CREE

027	Are the Australasian and Philippine old endemic rodents closely related? Evidence from sperm morphology	BILL BREED AND CHRIS LEIGH
Conservation Biology		
028	Telomeres — a happy end for kakapo ?	THORSTEN HORN, BRUCE C. ROBERTSON AND NEIL J. GEMMELL
029	Development of microsatellite markers in a rare New Zealand plant (<i>Ranunculus crithmifolius</i> var. <i>paucifolius</i>)	MORORE M. PIRIPI
030	Tests of phenotypic and genetic concordance and their application to the conservation of Panamanian golden frogs	CORINNE L. RICHARDS AND L. LACEY KNOWLES
Development and Evolution		
031	Rotifer: a new model genetic system for the Lophotrochozoa	JAMES SMITH, ANDREW CRIDGE AND PETER DEARDEN
032	Characterisation of even-skipped in <i>Apis mellifera</i>	MELANIE J. HAVLER AND PETER DEARDEN
033	The molecular basis of insect terminal patterning	ELIZABETH DUNCAN, ROSEMARY MANHIRE-HEATH AND PETER DEARDEN
034	Evolution of the Runt gene family in insects	JOHN ALCOCK, MEGAN WILSON AND PETER DEARDEN
035	The molecular basis of royalty	JOHANNA McCORD AND PETER DEARDEN
Ecological Genetics		
036	Connectivity amongst New Zealand estuaries: using the common cockle (<i>Austrovenus stutchburyi</i>) as a model to examine inter-estuary dispersal and predict larval transport	PHIL ROSS, IAN HOGG, CONRAD PILDTICH AND CAROLYN LUNDQUIST
037	Diversity of two class II genes, DQA and DQB, in the New Zealand endemic Hector's and Maui's dolphin	DOROTHEA HEIMEIER, FRANZ B. PICHLER, KIRSTY G. RUSSELL AND C. SCOTT BAKER
038	Evolutionary impacts of climate change on an Australian alpine ecosystem — a preliminary investigation	PHILIPPA C. GRIFFIN AND ARY A. HOFFMANN
039	Population genetics, landscape genetics and phylogeography of the Fiji frogs (Genus: <i>Platymantis</i>)	TAMARA OSBORNE, PETER J. LOCKHART AND LINTON WINDER
040	The genetic diversity of <i>Lobelia villosa</i> (Campanulaceae), an endemic species to the Hawaiian Islands	CAROL T. TRAN, ANIA M. WIECZOREK AND CLIFFORD W. MORDEN
041	Evolution of energy metabolism in threespine sticklebacks (<i>Gasterosteus aculeatus</i>)	ANNE C. DALZIEL, TIM H. VINES, DOLPH SCHLUTER AND PATRICIA M. SCHULTE

Ecology and Evolution of Disease		
042	Morphologically defined subgenera of <i>Plasmodium</i> from avian hosts: a test of monophyly by phylogenetic analysis of two mitochondrial genes	JESSICA L. WAITE, ELLEN S. MARTINSEN AND JOSEPH J. SCHALL
043	Fitness cost of pyrethroid insecticide resistance in <i>Anopheles gambiae</i>	LYNN Y. HUYNH, SIMEN R. SANDVE AND JOHN GIMNIG
044	Altered linkage in the MHC in dogs with type 1 diabetes	JENNIFER M. SEDDON, LINDA FLEEMAN AND KARIN BERGGREN
Education		
045	Brazilian high school biology textbooks: main conceptual problems in evolution	PEDRO L. B. ROCHA, CHARBEL N. EL-HANI, NADIA ROQUE, ANDRÉ L. L. VANZELA, ÂNGELA F. L. SOUZA, ANTONIO C. MARQUES, BLANDINA F. VIANA, CLARICE R. KAWAZAKI, CLAUDIA L. D. LEME, DEBORAH FARIA, DIOGO MEYER, ELIANNE OMENA, ELISABETH R. OLIVEIRA, JOSE G. A. ASSIS, JOSMARA FREGONEZE, LUCIANO P. QUEIROZ, LUIZ M. CARVALHO, MARCELO NAPOLI, MÁRCIO Z. CARDOSO, NUSA A. SILVEIRA, PAULO A. HORTA, PAULO T. SANO, RODRIGO B. ZUCOLOTO, ROSANA TIDON, SUELÍ A. H. SILVA AND VIVIAN L. ROSA
046	The Laboratory for Molecular Systematics and Ecology at the Academy of Natural Sciences of Philadelphia	ANTHONY J. GENEVA
Empirical Population Genetics		
047	The effect of migratory behaviour on genetic diversity and population divergence: a comparison of anadromous and non-anadromous Atlantic salmon (<i>Salmon salar</i>)	ANNI TONTERI, JAAKKO LUMME AND CRAIG R. PRIMMER
048	Lichen the deep south	TRACEY C. JONES
049	Are head lice and body lice genetically distinct? A coalescent analysis using MDIV and IM	MELISSA A. TOUPS, JESSICA E. LIGHT AND DAVID L. REED
Evolution of Ecological Communities		
050	Separation of native and exotic plant–pollinator mutualisms in New Zealand?	LINDA E. NEWSTROM-LLOYD, TAINA C. WITT AND RICHARD G. FITZJOHN
051	PASSaGE: Pattern Analysis, Spatial Statistics and Geographic Exegesis. Version 2	MICHAEL S. ROSENBERG AND COREY D. ANDERSON

Evolution of Sex		
052	Testing the all-else-equal assumption for the maintenance of sex from the perspective of ecological stoichiometry: do asexual snails require more of a limiting nutrient than sexual snails?	MAURINE NEIMAN, KATHERINE THEISEN AND ADAM KAY
053	Cooption of neo-X and neo-Y chromosomes in <i>D. albomicans</i>	SUNG-HAN LIN AND HWEI-YU CHANG
Evolutionary Theory		
054	An <i>Arabidopsis</i> -inspired model of non-Mendelian inheritance	ALEXEY YANCHUKOV AND HAMISH SPENCER
055	Model of evolution based on natural selection	PANKAJ VALLABH
056	Model of evolution based on ecological fitness	PANKAJ VALLABH
Experimental Evolution		
057	Evolution and characterisation of a heritable, bistable switch in <i>Pseudomonas fluorescens</i> SBW25	JENNA GALLIE, HUBERTUS J. E. BEAUMONT AND PAUL B. RAINY
058	Evolution of bacteriocin production	ROBERT F. INGLIS AND ANGUS BUCKLING
059	The nature of wrinkly spreader cooperation	PETER L. MEINTJES, TIM F. COOPER AND PAUL B. RAINY
Genomics/Proteomics		
060	Genetics of male sterility in <i>Drosophila simulans</i> × <i>D. mauritiana</i> hybrids	DAINA MA, PAWEŁ MICHALAK AND DAIJU HOSHINO
061	Microarray analysis of gene expression in <i>Drosophila melanogaster</i> sperm storage organs	ADRIANNE M. PROKUPEK, STEVE KACHMAN AND LAWRENCE G. HARSHMAN
062	Variation within genomes: microsatellites and copy number variations (CNVs)	LISHA NADUVILEZHATH, IRIS M. VARGAS-JENTZSCH, NEIL J. GEMMELL, DIRK METZLER AND ANNETTE KLUSSMANN-KOLB
063	Local adaptation in Hawaiian picture-winged <i>Drosophila</i>	MARLA A. FISHER, YVONNE CHAN, DURRELL KAPAN AND CAM MUIR
Hybridisation		
064	<i>Arabidopsis thaliana</i> × <i>Pachycladon cheesemanii</i> (Brassicaceae), an artificial intergeneric hybrid	PETER B. HEENAN, MURRAY I. DAWSON AND ROSS BICKNELL
065	The <i>Leptinia hispanica</i> species complex (Insecta Phasmida): polyploidy, parthenogenesis, hybridization and more	FABRIZIO GHISELLI, LILIANA MILANI, VALERIO SCALI AND MARCO PASSAMONTI
066	Changes in fitness and morphology in hybrid swarms of <i>Tigriopus californicus</i>	VICTORIA L. PRITCHARD AND SUZANNE EDMANDS

067	Opportunistic hybridisation between two congeneric reef fish: a novel scenario	STEFAN P. W. WALKER AND CHRISTOPHER RYEN
Inbreeding		
068	The causes of nest failure and effects of inbreeding depression in a historically small population of New Zealand robins	REBECCA J. LAWS AND IAN JAMIESON
Invasive Species		
069	Interlopers' legacy: hybrid-derived California wild radish evolves to outperform its immigrant parents	CAROLINE E. RIDLEY AND NORMAN C. ELLSTRAND
Life History Evolution		
070	Life histories and the evolution of aging in bacteria and other single-celled organisms	LEAH R. JOHNSON AND MARC S. MANGEL
071	Evolutionary game theory as a tool for studying reproductive traits in the natural systems	DYLAN Z. CHILDS
072	Disruptive body patterning of cuttlefish: an ontogenetic analysis of visual perception and pattern scaling	ALEXANDRA BARBOSA, CHRISTOPHER FLORIO, CHUAN-CHIN CIAO AND ROGER T. HANLON
073	Phylogenetic analysis of reproductive strategies in neotropical spiny rats indicates that pseudoseasonal strategy in <i>Trinomys yonenagae</i> (Echimyidae) is result of inertia	JOSE W. SANTOS AND PEDRO L. B. ROCHA
074	Why do female lizards lay their eggs in communal nests?	RAJKUMAR S. RADDER AND RICHARD SHINE
Macroevolution		
075	Patterns of diversification in modern ray-finned fishes: a mitogenomic overview	MASAKI MIYA, JUN G. INOUE, KOHJI MABUCHI AND MUTSUMI NISHIDA
076	Strong mitochondrial DNA support for an ancient origin of modern avian lineages	JOSEPH W. BROWN, JOSHUA S. REST, JAIME GARCIA-MORENO, MICHAEL D. SORENSEN AND DAVID P. MINDELL
Molecular Evolution		
077	Natural selection and DNA sequence variation at an esterase locus in house mice	LISA M. KENT AND MICHAEL W. NACHMAN
078	Accumulation of deleterious mutations in small abiotic populations of RNA	CAROLINA DIAZARENAS AND NILES LEHMAN
079	SINEs validate <i>Parahucho</i> (Salmoniformes, Salmonidae) as a monotypic genus and resolve complete phylogeny of whitefishes (Salmoniformes, Coregonidae: Prosopium)	VITALIY A. MATVEEV, HIDENORI NISHIHARA AND NORIHIRO OKADA

080	Evolution of male and female-transmitted mtDNA genomes of <i>Pyganodon</i> (Bivalvia:Unionidae): do they walk hand in hand?	HELENE DOUCET BEAUPRE, SOPHIE BRETON, WALTER RANDOLPH HOEH, FRANCE DUFRESNE AND PIERRE U. BLIER
081	Repeated duplication of the mitochondrial control region in parrots	ERIN E. SCHIRTZINGER, LAUREN GONZALES, JESSICA EBERHARD, GARY GRAVES AND TIMOTHY F. WRIGHT
082	Slow molecular evolution in mosses compared to higher plants	HANS K. STENOEN
083	Evolution of the Florideophyceae based on plastid amino acid data	EUN CHAN YANG, HWAN SU YOON, DEBASHISH BHATTACHARYA AND SUNG MIN BOO
084	Microsatellite evolution in a genomic context	ANGELIKA MERKEL AND NEIL J. GEMMELL
085	Mussel's threesome: how one nuclear can please two mitochondrial genomes	SOPHIE BRETON, HÉLÈNE DOUCET BEAUPRÉ, DONALD T. STEWART AND PIERRE U. BLIER
086	Statistical test for selection using binding site substitution models	DAVID S. LAWRIE, ADAM C. SIEPEL AND ANDREW G. CLARK
087	The <i>Hsr-omega</i> gene of <i>Drosophila</i> , a stress responsive RNA gene with a housekeeping role	TRAVIS K. JOHNSON, LAUREN CARRINGTON AND STEPHEN W. MCKEHNIE
088	Structure and evolution of the IGS region of the rDNA in <i>Bacillus</i> species (Insecta Phasmida)	ANDREA RICCI, VALERIO SCALI AND MARCO PASSAMONTI
089	The mitochondrial genome of <i>Bacillus</i> stick insects (Insecta Phasmida)	ANDREA RICCI AND MARCO PASSAMONTI
090	Contrasting patterns of molecular evolution of the long-wave opsin gene in two mysid crustacean genera: is the opsin important in visual adaptations?	ASTA AUDZIJONYTE, JOHAN PAHLBERG, KRISTIAN DONNER AND RISTO VÄINÖLÄ
091	Detection of statistical and functional correlates in HLA protein sequences using PyPop: multi-locus population genomics software	ALEX LANCASTER, STEVEN J. MACK, OWEN SOLBERG, HENRY A. ERLICH AND GLENYS THOMSON
092	Variation of the major histocompatibility complex among suids and peccaries	JAIME GONGORA, PATRICK CHARDON, STEWART LOWDEN, LEE MILES, OLIVER RYDER AND CHRIS MORAN
093	Preliminary approach to study the major histocompatibility complex in crocodilians	JAIME GONGORA, LEE MILES AND CHRIS MORAN
094	Searching for the genetic basis of specific anosmias in humans	Yael T. SALZMAN
Natural Selection and Contemporary Evolution		
095	Pollinator mediated selection on style length and effect on morph ratio in <i>Narcissus papyraceus</i> (Amaryllidaceae)	ROCÍO PÉREZ-BARRALES AND JUAN ARROYO
096	Pollinator mediated selection on flower phenotypic integration in <i>Narcissus</i> species (Amaryllidaceae)	ROCÍO PÉREZ-BARRALES AND JUAN ARROYO

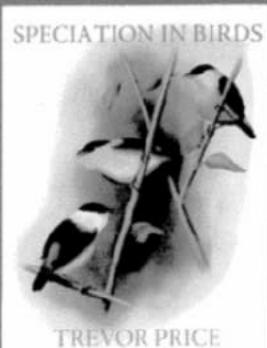
Phenotypic Plasticity		
097	Differential global gene expression patterns and phenotypic plasticity to seasonal cues among <i>Arabidopsis thaliana</i> recombinant inbred lines	LISA A. DORN AND MATTHEW J. RUBIN
098	A cost to adaptive plasticity: prey size and head shape in young tiger snakes, <i>Notechis scutatus</i>	FABIEN AUBRET AND RICHARD SHINE
099	Linking nutrition and behavioral dominance: carbohydrate scarcity limits aggression and activity in Argentine ants	ADAM D. KAY, CRYSTAL D. GROVER, JESSICA A. MONSON, THOMAS C. MARSHAND DAVID A. HOLWAY
100	Multiple environmental cues for seasonally-induced phenotypic plasticity in the zebrafish (<i>Danio rerio</i>)	CATRIONA H. CONDON AND ROBBIE S. WILSON
101	Predator-induced polyphenism in <i>Daphnia pulex</i>	TORU MIURA AND MAKI IMAI
Phylogenetic Theory and Methods		
102	MolPhy: new software for phylogenetic analyses using maximum likelihood	JUN ADACHI
103	Global relationships of <i>Bemisia tabaci</i> (Hemiptera: Aleyrodidae) revealed using Bayesian analysis of mitochondrial COI DNA sequence	L. M. BOYKIN, R. G. SHATTERS, R. A. BAGNALL, C. L. MCKENZIE, R. C. ROSELL, P. DEBARRO AND D. R. FROHLICH
104	All models are wrong but some are useful: identifying useful partitioned models for phylogenetic information theory, decision theory, and Bayesian approaches	JOSEPH W. BROWN AND DAVID P. MINDELL
Phylogeography		
105	From the centre to the margins of geographical range: molecular history of steppe plant, <i>Iris aphylla</i> L.	ADA WROBLEWSKA AND EMILIA BRZOSKO
106	Exploring the origin and degree of genetic isolation of <i>Anopheles gambiae</i> from the islands of Sao Tome and Principe: implications for testing transgenic-based vector control	JONATHON C. MARSHALL, JOAO PINTO, J. DEREK CHARLWOOD, GABRIELE GENTILE, FEDERICA SANTOLAMAZZA, FREDERIC SIMARD, ALESSANDRA DELLA TORRE, MARTIN J. DONNELLY AND ADALGISA CACCONE
107	Quaternary biogeography and glacial refugia of <i>Agyrtodes monticola</i> (Coleoptera: Leiodidae)	KATHARINE A. MARSKE, THOMAS R. BUCKLEY AND RICHARD A. B. LESCHEN
108	Phylogeographic analysis of the ant <i>Myrmica rubra</i> and its social parasite	JENNI M. LEPPÄNEN, RIITTA SAVOLAINEN AND KARI VEPSÄLÄINEN
109	Phylogeny within the family Suidae using DNA sequences and morphological characters	JAIME GONGORA, REBECCA CUDDAHEE, DENBIGH SIMOND, FABRICIA NASCIMENTO, STEWART LOWDEN, HANS KLINGEL, OLIVIER HANOTTE, DANIEL WHITE, BRADLEY CAIN, ANDREAS SPOETTER, JEAN PIERRE D'HUART, ETTORE RANDI, DENIS GERAADS, MARTIN PICKFORD AND CHRIS MORAN

110	Phylogeography of the olive tree complex: importance of polyploidisation events in the diversification in South Morocco and Macaronesia	GUILLAUME BESNARD, C. GARCIA-VERDUGO, R. RUBIO DE CASAS, U. A. TREIER, P. VARGAS AND N. GALLAND
111	All Blacks in the South Pacific: phylogeographic studies of <i>Nerita</i>	TANIA M. KING, JONATHAN M. WATERS, P MARK O'LOUGHLIN AND HAMISH G. SPENCER
112	Phylogeography of the Amazonian pencilfish <i>Nannostomus unifasciatus</i> (Lebiasinidae) using intron DNA markers	MARK J. SISTROM, NING L. CHAO AND LUCIANO B. BEHEREGARAY
113	Do Chironomids disperse as 'aerial plankton'? genetic evidence from north-eastern Queensland, Australia	MATTHEW N. KROSCH, ANDREW M. BAKER, PETER S. CRANSTON, BRENDAN G. MCKIE AND PETER B. MATHER
114	Is the answer "blowin' in the wind"? Differential passive dispersal potential predicts population structure in Hawaiian land snails	BRENDEN S. HOLLAND AND ROBERT H. COWIE
115	Sturgeon phylogeography of the Ponto-Caspian region	NIKOLAI S. MUGUE, ANNA E. BARMINTSEVA, SERGEY M. RASTORGUEV AND VLADIMIR A. BARMINTSEV
116	Phylogeography and hybridization of the New Zealand house mouse	TANYA L. A. CHUBB AND CHRISSEN E. C. GEMMILL
117	Phylogeography of New Zealand paua: estimating barriers to gene flow using multiple genetic markers	MARGE C. WILL, MARIE L. HALE AND NEIL J. GEMMELL
118	Comparative phylogeography of two long-necked turtle species in Australia's Murray-Darling Basin	KATE HODGES
Plant Mating Systems		
119	The ecological context for mating system: neighbors, friends and enemies	TIA-LYNN ASHMAN, CARINE COLLIN AND LAURENT PENET
Population Ecology		
120	The distance to here — population connectivity and dispersal strategies in benthic invertebrates	MARTIN C. HINGSTON, SHANE LAVERY, ANDREW VEALE AND FRANK HINNENDAEL
Quantitative Genetics		
121	Quantitative genetic analysis of sexually dimorphic wing shape in <i>Drosophila serrata</i>	SCOTT ALLEN, KATRINA MCGUIGAN AND STEVE CHENOWETH
122	Limits to adaptation: evidence from rainforest <i>Drosophila</i>	V. M. KELLERMANN, C. M. SGRÒ AND A. A. HOFFMANN
123	The effect of bottlenecks on quantitative genetic variation in a rainforest restricted species	BELINDA VAN HEERWAARDEN, TORSTEN N. KRISTENSEN, YVONNE WILLI AND ARY A. HOFFMANN

Sexual Selection		
124	Rapid diversification of male genitalia and mating strategies in <i>Ohomopterus</i> ground beetles	YASUOKI TAKAMI AND TEIJI SOTA
125	Male dominance in polygyny and viability costs in the New Zealand fur seal, <i>Arctocephalus forsteri</i>	SANDRA S. NEGRO, ABIGAIL K. CAUDRON, BRUCE C. ROBERTSON AND NEIL J. GEMMELL
126	Variation in male genetic quality and the good sperm hypothesis for the evolution of polyandry	FRANCISCO GARCIA-GONZALEZ
127	Multiple mating in a tephritid fly, no cost or benefit to females?	DIANA PEREZ-STAPLES, CHRIS WELDON AND PHIL TAYLOR
128	Evidence of mutual sexual selection on a homologous ornament in the mosquito <i>Sabettus cyaneus</i>	SANDRA H. SOUTH
129	Gene flow among colour-morphs of Indonesian Sailfin silversides: implications for sexual selection in an adaptive radiation	RYAN P. WALTER, G. DOUGLAS HAFFNER AND DANIEL D. HEATH
Speciation		
130	Influences of acquiring bioluminescence	NORIO WAKAYAMA
131	Hybrid speciation? A potential new species in <i>Raoulia</i> (Asteraceae: Gnaphalieae)	JONATHAN J. DOHERTY, JOSEPHINE M. WARD, ROB D. SMISSEN AND VICTORIA J. METCALF
132	Sexual discrimination between populations of <i>Drosophila ananassae</i> and <i>D. pallidosa</i>	MALCOLM D. SCHUG, JOHN BAINES, AMANDA KILLON-ATWOOD, APARUP DAS, SHIVA ZHARGAM AND WOLFGANG STEPHAN
133	A tale of two fishes: phylogeography and cryptic speciation in Caribbean bonefishes	ELIZABETH M. WALLACE AND MICHAEL D. TRINAGLI
134	Dispersal and <i>in situ</i> radiation of an obligate pollination mutualism onto remote volcanic islands in the Pacific	DAVID HEMBRY, TOMOKO OKAMOTO AND ROSEMARY GILLESPIE
135	Outstanding diversity of New Zealand bamboo corals (Isididae)	LUISA F. DUENAS AND JUAN A. SANCHEZ
136	Processes driving diversification of endemic radiations of Malagasy butterflies	MARJORIE C. LINARES, DAVID C. LEES AND NICOLA M. ANTHONY
137	Assortative mating based on aposematic coloration in poison dart frogs	R GRAHAM REYNOLDS AND BENJAMIN M. FITZPATRICK
Species Interactions		
138	Testing the facilitation-competition paradigm under the stress-gradient hypothesis	TAKASHI KAWAI
139	Evolution of host association in endemic Hawaiian tephritid flies	JONATHAN M. BROWN

140	Geographic variation in the evolution and coevolution of a tritrophic interaction	TIMOTHY P. CRAIG, JOANNE K. ITAMI AND JOHN D. HORNER
Systematics		
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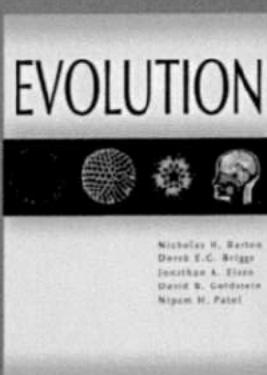
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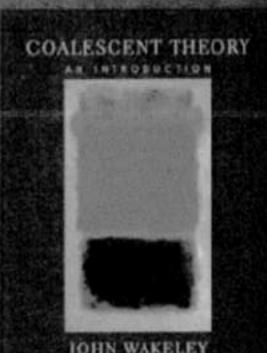
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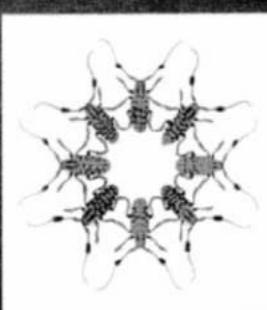
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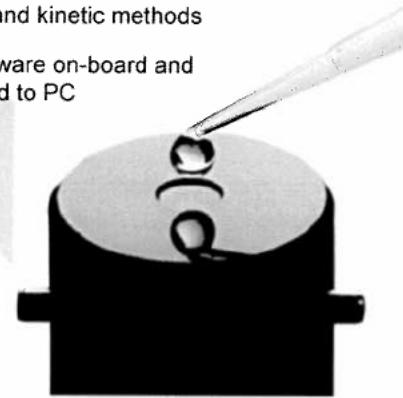
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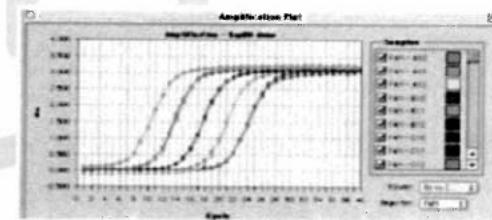
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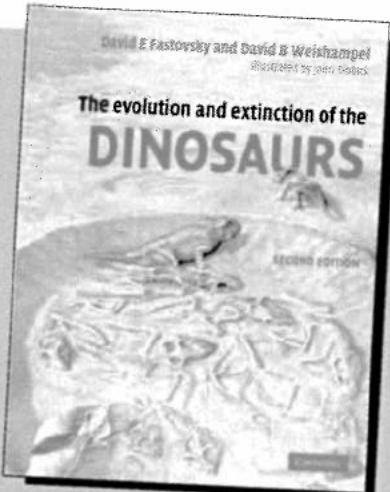
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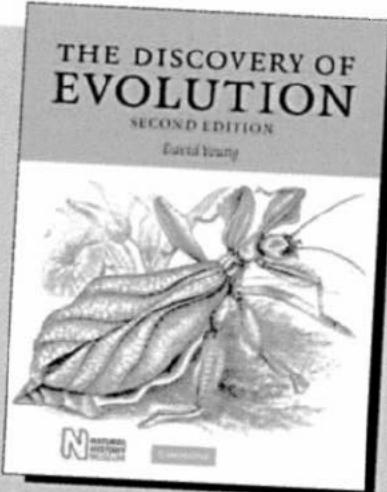


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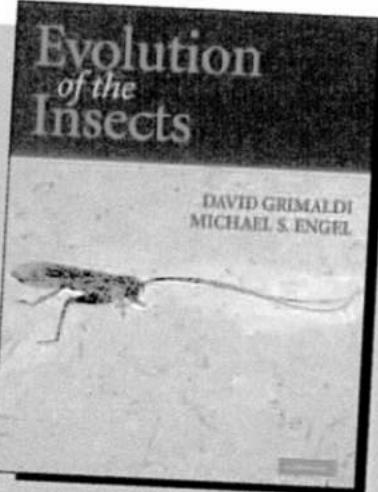
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Abdelkrim, Jawad Isco •	
University of Canterbury, jawad.abdelkrim@canterbury.ac.nz	
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University of Canterbury, jawad.abdelkrim@canterbury.ac.nz	
Abourachid, Anick	78 ^P
Muséum National d'Histoire Naturelle, France, abourach@mnhn.fr	
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Institute of Statistical Mathematics, Japan, adachi@ism.ac.jp	
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South Australian Museum, Adams.Mark@saugov.sa.gov.au	
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University of Texas at Austin, rmmadams@mail.utexas.edu	
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NIWA, New Zealand, s.ahyong@niwa.co.nz	
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University of California, Davis, bcajie@ucdavis.edu	
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Federal University of Technology, Yola, Nigeria	
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University of Canberra, alacs@aerg.canberra.edu.au	
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University of Otago, johnalcock@xtra.co.nz	
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University of Auckland, laninsky@gmail.com	
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Northern Arizona University, Gery.Allan@nau.edu	
Allen, Desiree E. •	65*
University of Edinburgh, desiree.allen@ed.ac.uk	
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University of Queensland, s4117698@student.uq.edu.au	
Allendorf, Fred W.	49, 51
University of Montana, fred.allendorf@umontana.edu	
Allford, Adam	69
University of Adelaide, adam.allford@adelaide.edu.au	
Allison, Allen	71
Bishop Museum, allison@hawaii.edu	
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University of Alaska, e.allman@uaf.edu	
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Stanford University, sealter@stanford.edu	
Alter, Susan •	
Stanford University, sealter@stanford.edu	
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University of New Caledonia	
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University of Maryland, eamitin@umd.edu	
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Russian Academy of Sciences, azemiops@zin.ru	
Anderson, Corey D.	81 ^P
Arizona State University, Corey.D.Anderson@asu.edu	
Anderson, Eugene •	
University of Minnesota, eanderso@cce.umn.edu	

Anderson, Jennifer	56
Allan Wilson Centre, Massey University	
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Cornell University, jaa53@cornell.edu	
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University of Wisconsin, ane@stat.wisc.edu	
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University of New Orleans, nanthony@uno.edu	
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Radiation Effects Research Foundation, Japan, asakawa@rerf.or.jp	
Ascher, John	64
American Museum of Natural History, ascher@amnh.org	
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University of Pittsburgh, tia1@pitt.edu	
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University of Reading, q.d.atkinson@reading.ac.uk	
Aubret, Fabien •	85 ^P
University of Sydney, faubret@mail.usyd.edu.au	
Audzijonyte, Asta •	55*, 64*, 84 ^P , 88 ^P
University of Helsinki, asta.audzijonyte@helsinki.fi	
Austin, Andrew •	69*, 69, 69, 71, 73
University of Adelaide, andy.austin@adelaide.edu.au	
Austin, Christopher M.	52, 88 ^P
Charles Darwin University, chris.austin@cdu.edu.au	
Austin, Christopher C. •	71*
Louisiana State University, ccaustin@lsu.edu	
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University of Adelaide, jeremy.austin@adelaide.edu.au	
Authier, Astrid	58
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Ayre, David •	53*, 53, 53, 64, 67
University of Wollongong, dja@uow.edu.au	
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North Carolina State University, jfayrole@ncsu.edu	

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Universidade Estadual Paulista, Brazil, mbacci@rc.unesp.br	
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University of St. Thomas	

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Indiana University, mabailey@indiana.edu		Simon Fraser University, beckenba@sfu.ca	
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University of Munich, Germany		University of California, Davis, djbegun@ucdavis.edu	
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		Macquarie University, luciano.beheregaray@bio.mq.edu.au	
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INRA, France, baird@supagro.inra.fr		University of Iowa, tuvik-beker@uiowa.com	
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University of Texas		Tel Aviv University, fridab@post.tau.ac.il	
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Queensland University of Technology, am.baker@qut.edu.au		University of Sydney	
Baker, C. Scott	59, 65, 80 ^P	Benmayor, Rebecca •	51*
Oregon State University, scott.baker@oregonstate.edu		University of Oxford, rebecca.benmayor@zoo.ox.ac.uk	
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Pacific Islands Fishery Science Center, Hawaii, jason.baker@noaa.gov		Uppsala University, Sweden, sara.bergek@ebc.uu.se	
Balakrishnan, Christopher N. •	59*	Berggren, Karin	81 ^P
Harvard University, cbala@oeb.harvard.edu		Uppsala University, Sweden, karin.bremdal@ebc.uu.se	
Banks, Jonathan C. •	69*, 73	Bernardo da Rocha, Pedro Luís •	78*, 81 ^P , 83 ^P
University of Waikato, j.banks@waikato.ac.nz		Universidade Federal da Bahia, Brazil, peurocha@ufba.br	
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Oregon State University, michael.banks@oregonstate.edu		College of Charleston, bernardoj@cofc.edu	
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Marine Biological Laboratory / Porto University, abarbosa@mbl.edu		University of Lausanne, Switzerland, guillaume.besnard@unil.ch	
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VNIRO, Russia, bar@molgen.vniro.ru		Jagiellonian University, Krakow, Poland	
Barmintseva, Anna E.	86 ^P	Bicknell, Ross	82 ^P
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t.barraclough@imperial.ac.uk		Friedrich-Schiller-Universitat Jena, Germany, olaf.bininda@uni-jena.de	
Barrett, Luke •	69*	Birand, Aysegul •	70*
CSIRO, Australia, Luke.Barrett@csiro.au		New Mexico State University, aysegul@nmsu.edu	
Barrett, Rowan D. H. •	49*	Birky, C. William, Jr	51
University of British Columbia, rbarrett@zoology.ubc.ca		University of Arizona, birky@u.arizona.edu	
Barrett, Spencer C. H. •	52*, 70*	Bishop, J. D. D.	55
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James Cook University, line.bay@jcu.edu.au		Bonsall, Mike	51
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Allan Wilson Centre, Massey University, G.Beans-Picon@massey.ac.nz		Bonser, Stephen P. •	69*
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Macquarie University, abeattie@bio.mq.edu.au		Boore, Jeffrey L.	68
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Beavis, Sara G.	78 ^P	Cornell University, ksb6@cornell.edu	
Australian National University, sara.beavis@anu.edu.au			
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Bouma, Whitney •	88 ^P	Burd, Martin •	57*, 57
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Bowen, Brian W.	51, 59, 66	Burridge, Christopher P. •	52, 56*, 56, 57
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South Australian Museum, bradbury.john@adelaide.edu.au		Bush, Sarah E. •	59*
Bradford, Tessa M. •	69*	University of Kansas, bush@biology.utah.edu	
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University of Nebraska, cbrassil2@unl.edu		Butler, Micheal •	
Braun, Edward L. •	70	Epsom Girls Grammar, New Zealand, bu@eggs.school.nz	
University of Florida, ebraun68@ufl.edu		Butlin, Roger K.	50
Bray, Sarah C. •	52*	University of Sheffield, r.k.butlin@sheffield.ac.uk	
University of Adelaide, sarah.bray@adelaide.edu.au		Byars, Sean •	73*
Breed, William •	79 ^P , 80 ^P	University of Melbourne, s.byars@pgrad.unimelb.edu.au	
University of Adelaide, bill.breed@adelaide.edu.au		Byrne, Margaret •	63, 64*
Breitwieser, Ilse •	63, 74*, 74, 74	Department of Environment and Conservation, Western Australia, Margaret.Byrne@dec.wa.gov.au	
Landcare Research, New Zealand, breitwieseri@landcareresearch.co.nz			
Bretton, Sophie •	84 ^P , 84 ^P		
Université du Québec à Rimouski, sophie_bretton@uqar.qc.ca			
Bridgman, Jamie T.	74		
University of Oregon, jamieb@uoregon.edu			
Briscoe, David	49		
Macquarie University, dbriscoe@bio.mq.edu.au			
Brockhurst, Michael	51		
Brodin, Anders •	51*		
Lund University, Sweden, Anders.Brodin@teorekol.lu.se			
Bromham, Lindell •	74*		
Australian National University, lindell.bromham@anu.edu.au			
Brookes, Rowan H. •	57*		
Monash University, rowan.brookes@sci.monash.edu.au			
Brooks, Robert •	53, 55, 59		
University of New South Wales, rob.brooks@unsw.edu.au			
Broom, Judith E. •	51*		
University of Otago, judy.broom@otago.ac.nz			
Brosius, Juergen	52, 64		
University of Muenster, Germany, RNA.world@uni-muenster.de			
Brown, Elizabeth A.	60		
National Herbarium of New South Wales, telopea@rbgsyd.nsw.gov.au			
Brown, Jeremy M. •	59*		
University of Texas at Austin, jembrown@mail.utexas.edu			
Brown, Joel	73		
University of Illinois			
Brown, Jonathan M. •	87 ^P		
Grinnell College, brownj@grinnell.edu			
Brown, Joseph W.	83 ^P , 85 ^P		
University of Michigan, josephwb@umich.edu			
Brownell, R. L., Jr	65		
Brownsey, Patrick J.	48		
Museum of New Zealand Te Papa Tongarewa			
Brtko, Julius	73		
Brunet, Frederic	73		
École Normale Supérieure, France			
Brunton, Dianne H.	51		
Massey University, d.h.brunton@massey.ac.nz			
Bryant, David J. •	59*		
University of Auckland, d.bryant@auckland.ac.nz			
Bryant, L.	88 ^P		
Queensland University of Technology, litticia@hotmail.com			
Brzosko, Emilia	85 ^P		
University of Białystok, Poland, emilka@uwb.edu.pl			
Buchanan, Joe •	72*		
Victoria University of Wellington, buchanjose@student.vuw.ac.nz			
Buchanan, Peter •			
Landcare Research, New Zealand, buchananp@LandcareResearch.co.nz			
Buckley, Thomas R. •	50, 52*, 85 ^P		
Landcare Research, New Zealand, buckleyt@landcareresearch.co.nz			
Buckling, Angus	51, 51, 82 ^P		
Oxford University, angus.buckling@zoo.ox.ac.uk			
Buggiotti, Laura •	67*		
University of Turku, laubug@utu.fi			
Bui, Minh Q.	63		
University of Vienna, minh.bui@univie.ac.at			
Burd, Martin •	57*, 57		
Monash University, martin.burd@sci.monash.edu.au			
Burdon, Jeremy J.	69		
CSIRO, Australia, jeremy.burdon@csiro.au			
Burke, John M.	70		
University of Georgia, jmburke@uga.edu			
Burridge, Christopher P. •	52, 56*, 56, 57		
University of Otago, chris.burridge@stonebow.otago.ac.nz			
Busch, Jeremiah W. •	54		
McGill University, jeremiah.busch@mcgill.ca			
Buschiazzo, Emmanuel •	65*		
University of Canterbury, ebr26@student.canterbury.ac.nz			
Bush, Sarah E. •	59*		
University of Kansas, bush@biology.utah.edu			
Bussière, Luc F.	59		
University of Zurich, Switzerland, luc.bussiere@access.unizh.ch			
Butler, Colleen	71		
Harvard University			
Butler, Marguerite A.	69*, 73		
University of Hawaii, mbutler@hawaii.edu			
Butler, Micheal •			
Epsom Girls Grammar, New Zealand, bu@eggs.school.nz			
Butlin, Roger K.	50		
University of Sheffield, r.k.butlin@sheffield.ac.uk			
Byars, Sean •	73*		
University of Melbourne, s.byars@pgrad.unimelb.edu.au			
Byrne, Margaret •	63, 64*		
Department of Environment and Conservation, Western Australia, Margaret.Byrne@dec.wa.gov.au			

C

Caccone, Adalgisa •	85 ^P
Yale University, adalgisa.caccone@yale.edu	
Caccone, Gisella	67*
Yale University, adalgisa.caccone@yale.edu	
Cain, Bradley	85 ^P
Calcagno, Vincent •	53*
CNRS UMR, France, calcagno@isem.univ-montp2.fr	
Caley, Julian	57, 78 ^P , 78 ^P
Australian Institute of Marine Science, j.caley@aims.gov.au	
Calsbeek, Ryan	63
Dartmouth College, Ryan.G.Calsbeek@Dartmouth.edu	
Cameron, Emilie C. •	55*
University of Sydney, ecameron@bio.usyd.edu.au	
Cameron, Susan E. •	63, 74*
University of California, Davis, secameron@ucdavis.edu	
Cameron, Sydney A. •	61*
University of Illinois, scameron@life.uiuc.edu	
Campbell, Alison M. •	67*
University of Waikato, acampbel@waikato.ac.nz	
Campbell, Diane R. •	57, 63*
University of California, Irvine, drcampbe@uci.edu	
Campbell, Hamish J.	61, 71
GNS Science, New Zealand, H.Campbell@gns.cri.nz	
Campbell, Lyle	48
University of Utah, lyle.campbell@linguistics.utah.edu	
Cannatella, David •	54*, 60, 64
University of Texas, Austin, catfish@mail.utexas.edu	
Cantrill, David J.	69
Royal Botanic Gardens, Melbourne, David.Cantrill@rbg.vic.gov.au	
Cao, Ying •	60*
Institute of Statistical Mathematics, Japan, cao@ism.ac.jp	
Capellini, Isabella •	71*
Durham University, Isabella.Capellini@dur.ac.uk	
Carbone, Mary Anna	60
North Carolina State University, macarbon@ncsu.edu	
Cardoso, Márcio Z.	81 ^P
Carini, Giovannella •	54*
Griffith University, ella.carini@hotmail.com	
Carlson, Rose L. •	69*
University of California, Davis, rlcarlson@ucdavis.edu	
Carlson, Stephanie M. •	55*
University of California, Santa Cruz, scarlson@soe.ucsc.edu	
Carnaval, Ana Carolina Q. •	58*
University of California, Berkeley, carnaval@berkeley.edu	
Carragher, Colm •	58*
HortResearch, New Zealand, ccarraher@hortresearch.co.nz	
Carrington, Lauren	84 ^P
Monash University	
Carroll, Sean M. •	74*
University of Oregon, seanc@uoregon.edu	
Carstens, Bryan C.	73
University of Michigan, bcarsten@umich.edu	
Carter, Richard J. •	64*
Allan Wilson Centre, Massey University, carter_r15@hotmail.com	

Carter, Ronald L.	68
Loma Linda University, rcarter@llu.edu	
Carvalho, Luiz M.	81 ^P
Cary, Craig	69
University of Waikato	
Casas, R. Rubio de	86 ^P
Castric, Vincent	61
Laboratoire GEPV, CNRS, France, vincent.castric@univ-lille1.fr	
Caudron, Abigail K.	87 ^P
University of Canterbury; Université de Liège, Belgium, a.caudron@gmail.com	
Cavallaro, Antonino S.	70
University of Queensland	
Chain, Frederic J. J. •	68*
McMaster University, chainf@mcmaster.ca	
Chambers, Colleen	52
Chan, Benny Kwok Kan	71
Academia Sinica, Taiwan, chankk@gate.sinica.edu.tw	
Chan, Yvonne	82 ^P
University of Hawaii Manoa, ylchan@hawaii.edu	
Chang, Hwei-yu	82 ^P
National Taiwan University, hwei@ntu.edu.tw	
Chao, Ning L.	66, 86 ^P
Universidade do Amazonas, Brazil, piabas@gmail.com	
Chapman, Hazel •	63*
University of Canterbury, hazel.chapman@canterbury.ac.nz	
Chapman, Joanna	78 ^P
Chapman, Joanne R. •	49*
University of Oxford, joanne.chapman@zoo.ox.ac.uk	
Chapple, David G. •	48*, 50, 60, 61
Allan Wilson Centre, Victoria University of Wellington, David.Chapple@vuw.ac.nz	
Chardon, Patrick	84 ^P
Charwood, J. Derek	85 ^P
Chase, Mark W.	55
Royal Botanic Gardens, Kew	
Chawla, H. M.	68
Indian Institute of Technology, Delhi, India	
Chen, Nancy •	59*
Harvard University, chen18@fas.harvard.edu	
Chenoweth, Stephen •	57, 59*, 86 ^P
University of Queensland, s.chenoweth@uq.edu.au	
Cheptou, Pierre-Olivier	61
CEFE-CNRS, France, pierre-olivier.cheptou@cefe.cnrs.fr	
Chevret, Pascale	52
Ecole Normale Supérieure de Lyon, France, Pascale.Chevret@ens-lyon.fr	
Childs, Dylan Z. •	83 ^P
University of Sheffield, d.childs@sheffield.ac.uk	
Chippindale, Paul •	
University of Texas, Arlington, paulc@uta.edu	
Cho, Joo-Lae	69
Choat, Howard	73
James Cook University, John.Choat@jcu.edu.au	
Choe, Jae C.	65
Ewha Womans University, Korea, jaechoe@ewha.ac.kr	
Chojnowski, Jena L. •	70*
University of Florida, jena@zoo.ufl.edu	
Chong, Nicola L. •	53*
Royal Ontario Museum, nicolac@rom.on.ca	
Chown, Steven L.	48
Stellenbosch University, South Africa, slchown@sun.ac.za	
Chown, Steven	62
Christensen, Rebekah A. •	59*
Flinders University of South Australia, christensen.rebekah@flinders.edu.au	
Christin, Pascal-Antoine •	48*
University of Lausanne, Switzerland, pascal-antoine.christin@unil.ch	
Christy, John H.	65
Smithsonian Tropical Research Institute, christyj@si.edu	
Chu, Ka Hou	71
Chinese University of Hong Kong, kahouchu@cuhk.edu.hk	
Chubb, Tanya L. A. •	86 ^P
University of Waikato, tlac1@waikato.ac.nz	
Churakov, Gennady	64
University of Muenster, Germany, churakov@uni-muenster.de	
Ciao, Chuan-Chin	83 ^P
National Tsing Hua University, Taiwan, ccchiao@life.nthu.edu.tw	
Ciesielski, Fabrice	73
Cipriano, F.	65
Ciszek, Deborah •	
Society of Systematic Biologists, systbiol@uconn.edu	
Clark, Andrew G.	84 ^P
Cornell University, ac347@cornell.edu	
Clarke, Andrew C. •	62, 75*
Allan Wilson Centre, Massey University, A.C.Clarke@massey.ac.nz	
Clarke, Laurence J. •	53*
University of Wollongong, ljc03@uow.edu.au	
Clay, Christopher •	
Pakuranga College, New Zealand, cyc@pakuranga.school.nz	
Clayton, Dale H. •	57
University of Utah, Clayton@biology.utah.edu	
Clemm, Nicholas	61
University of Melbourne, Nick.Clemm@dse.vic.gov.au	
Clement, Wendy •	62*
University of Minnesota, clem0148@umn.edu	
Clément, Yves	55
clément@biomserv.univ-lyon1.fr	
Clements, Kendall D. •	72*, 73*
University of Auckland, k.clements@auckland.ac.nz	
Clissold, Fiona	53
Clout, Mick N.	63
University of Auckland	
Coate, Jack A. •	66*
University of New South Wales, j.coate@student.unsw.edu.au	
Colbourne, John K.	58
Indiana University, jcolbour@cgb.indiana.edu	
Coleman, Martha •	
University of Hawaii, Manoa, marthac@hawaii.edu	
Colgan, Donald	62
Australian Museum, Don.Colgan@austmus.gov.au	
Collin, Carine	86 ^P
University of Pittsburgh, clc155@pitt.edu	
Collins, Lesley •	48*
Allan Wilson Centre, Massey University, L.J.Collins@massey.ac.nz	
Collins, Sinead A.	72*
Max Planck Inst. for Plant Breeding Research, collins@mpiz-koeln.mpg.de	
Collins, Sinead Andrea •	
Max Planck Institute, collins@mpiz-koeln.mpg.de	
Coltman, David W.	75
University of Alberta, dcoltman@ualberta.ca	
Condon, Catriona H. L. •	85 ^P
University of Queensland, c.condon@uq.edu.au	
Consortium, Human Body Louse Genome	65
Convey, Peter	62
Cook, Lorraine •	
Allan Wilson Centre, Massey University, cook.lorraine@gmail.com	
Coombs, Dan	51
University of British Columbia, coombs@math.ubc.ca	
Cooper, Alan •	52, 58, 71*
University of Adelaide, alan.cooper@adelaide.edu.au	
Cooper, Idelle A. •	57*
Indiana University, Bloomington, idcooper@indiana.edu	
Cooper, Steven J. B. •	50, 69, 69, 71*
South Australian Museum, cooper.steve@saugov.sa.gov.au	
Cooper, Timothy F. •	51*, 82 ^P
University of Auckland, t.cooper@auckland.ac.nz	
Corley-Lavine, Laura	73
Washington State University, corley@wsu.edu	
Cotton, James A.	74
National University of Ireland Maynooth, james.cotton@nuim.ie	
Coulson, Tim	63
Imperial College, t.coulson@imperial.ac.uk	
Cowie, Robert H.	86 ^P
University of Hawaii, cowie@hawaii.edu	
Cowley, David	67
New Mexico State University, dcowley@nmsu.edu	
Cox, Murray P. •	75*
University of Arizona, mpcox@email.arizona.edu	
Craig, Lauren	54
University of Otago	
Craig, Matthew T. •	54*
University of Hawaii, Manoa, mtcraig@hawaii.edu	
Craig, Timothy P.	88 ^P
University of Minnesota - Duluth, tcraig@d.umn.edu	
Crandall, Eric D. •	58*
Boston University, veliger@bu.edu	
Crandall, Keith •	
Brigham Young University, keith_crandall@byu.edu	
Cranston, Peter •	86 ^P
University of California, Davis, pscranston@ucdavis.edu	
Cravedi, Jean-Pierre	73
Craw, Dave	56, 56
University of Otago, dave.craw@stonebow.otago.ac.nz	
Crawford, Monique A. •	57, 61*
Victoria University of Wellington, monique.crawford@vu.ac.nz	
Crayn, Darren M.	79 ^P
Cree, Alison	79 ^P
University of Otago, alison.cree@stonebow.otago.ac.nz	
Crews, Sarah •	
University of California, Berkeley, screws@berkeley.edu	
Cridge, Andrew	80 ^P
Victoria University of Manchester, cridgeag@hotmail.com	
Cronin, Thomas W.	57
Croshaw, Dean •	51*
University of Arizona, croshaw@email.arizona.edu	

Crozier, Ross H.	55, 57, 58, 61
James Cook University, Ross.Crozier@jcu.edu.au	
Cruickshank, Robert H. •	60*, 88 ^P
Lincoln University, cruicksr@lincoln.ac.nz	
Crummett, Lisa T. •	65*
University of Florida, crummett@ufl.edu	
Cruzan, Mitchell B.	53
cruzan@pdx.edu	
Cuddahee, Rebecca	85 ^P
Cummings, Jeffrey	78 ^P
Curnoe, Darren	66
University of New South Wales, d.curnoe@unsw.edu.au	
Cursors, Raymond Thomas •	
University of Waikato, r.cursons@waikato.ac.nz	
Curtis, Bruce A.	63
The Atlantic Genome Centre, Bruce.Curtis@nrc-cnrc.gc.ca	
Curtis, Nathan •	79 ^P
Lincoln University, curtisn2@Lincoln.ac.nz	
Czarnoleski, Marcin	79 ^P
Jagiellonian University, Krakow, Poland, czam@eko.uj.edu.pl	
 D	
da Silva, Jack •	58*
University of Adelaide, jack.dasilva@adelaide.edu.au	
Dalebout, M. L.	65
University of New South Wales	
Daly-Engel, Toby S. •	51*
University of Hawaii, tengel@hawaii.edu	
Dalziel, Anne C. •	80 ^P
University of British Columbia, dalziel@zoology.ubc.ca	
Damas, Myrnelle	49
Daneliya, Mikhail	55
University of Helsinki, mikhail.daneliya@helsinki.fi	
Daniel, Claire	78 ^P
University of Auckland, beebz.claire@gmail.com	
Daniels, Savel R. •	62, 64*
University of Stellenbosch, South Africa, srd@sun.ac.za	
Dann, Peter	52
Phillip Island Nature Parks, Australia, pdann@penguins.org.au	
Darling, Aaron E. •	65*
University of Queensland, darling@cs.wisc.edu	
Das, Aparup	87 ^P
University of Munich, Germany	
Daubin, Vincent •	55*
CNRS, France, daubin@biomserv.univ-lyon1.fr	
Dauer, Michael	65
University of Washington, mdauer@u.washington.edu	
Daugherty, Charles H.	48, 49, 50, 60
Allan Wilson Centre, Victoria University of Wellington, charles.daugherty@vuw.ac.nz	
Davidson, Jeanette •	
Epsom Girls Grammar, New Zealand, ddd@eggs.school.nz	
Davila, Yvonne C. •	59*
University of Sydney, ydavila@bio.usyd.edu.au	
Dawson, Murray I. •	79 ^P , 82 ^P
Landcare Research, New Zealand, dawsonm@landcareresearch.co.nz	
Day, Julia J. •	74*
Imperial College London, julia.day@imperial.ac.uk	
Day, Ryan D. •	71*
University of Queensland, ryandday@yahoo.com	
Day, Troy •	51, 78 ^P , 78 ^P
Queen's University, tday@mast.queensu.ca	
Dearden, Peter K. •	73*, 80 ^P , 80 ^P , 80 ^P , 80 ^P , 80 ^P
University of Otago, peter.dearden@stonebow.otago.ac.nz	
DeBarro, P.	85 ^P
CSIRO, Australia	
Debat, Vincent •	73*
Museum National d'Histoire Naturelle, Paris, debat@mnhn.fr	
Degnan, Bernard	71
University of Queensland, b.degnan@uq.edu.au	
Delph, Lynda F. •	52*
Indiana University, ldelph@indiana.edu	
Delsuc, Frederic •	55, 64*
CNRS-Universite Montpellier II, France, delsuc@isem.univ-montp2.fr	
Demere, Thomas A.	71
San Diego Natural History Museum, tdemere@sdnhm.org	
Dessmann, Josephine	53
Deutsch, Jean	73
Université Pierre et Marie Curie - France, jean.deutsch@snv.jussieu.fr	
d'Huart, Jean Pierre	85 ^P
Diazarenas, Carolina •	83 ^P
Portland State University, cdiaz@pdx.edu	
Dick, Grant	69
University of Otago, gdick@infoscience.otago.ac.nz	
Dickison, Michael R. •	71*
Duke University, mrd6@duke.edu	
Dijk, Henk van	53
University Lille, France, henk.van-dijk@univ-lille1.fr	
Dillmann, Christine	53
UMR de Génétique végétale, France, dillmann@moulon.inra.fr	
Dodd, Andrew •	56, 68, 72*
Allan Wilson Centre, Massey University, a.dodd@massey.ac.nz	
Doherty, Jonathan J. •	87 ^P
University of Canterbury, jjd25@student.canterbury.ac.nz	
Dolman, Gaynor •	52*
CSIRO Sustainable Ecosystems, Australia, gaynor.dolman@csiro.au	
Donald, Kirsten M. •	71*
Allan Wilson Centre, University of Otago, kirsten.donald@stonebow.otago.ac.nz	
Donnellan, Steve C.	49, 71, 88 ^P
South Australian Museum, donellan.steve@saugov.sa.gov.au	
Donnelly, Martin J.	85 ^P
Donner, Kristian	84 ^P
University of Helsinki, Finland, kristian.donner@helsinki.fi	
Donoghue, Michael J. •	74*
Yale University, michael.donoghue@yale.edu	
Donohue, Kathleen •	71*
Harvard University, kdonohue@oeb.harvard.edu	
Dorn, Lisa A.	85 ^P
University of Wisconsin, Oshkosh, dorn@uwosh.edu	
Dornier, Antoine •	61*
CNRS, France, antoine.dornier@cefe.cnrs.fr	
dos Santos, Jose •	83 ^P
University of California, Berkeley, jwas@berkeley.edu	
Douady, Christophe J. •	54*
Université Claude Bernard Lyon 1, France, christophe.douady@univ-lyon1.fr	
Doucet Beaupre, Helene Eugenie •	84 ^P , 84 ^P
Université du Quebec à Rimouski, helene.dbeaupre@cgocable.ca	
Doughty, Paul E.	54
Western Australian Museum, Paul.Doughty@museum.wa.gov.au	
Douzery, Emmanuel J. P.	55, 64
Université Montpellier II, France, douzery@isem.univ-montp2.fr	
Dowdall, Julian Torres	53
Colorado State University, jdowall@lamar.colostate.edu	
Downton, Mark	57
University of Wollongong, mdownton@uow.edu.au	
Drabkova, Lenka •	66*
Academy of Sciences, Czech Republic, drabkova@ibot.cas.cz	
Draghi, Jeremy A. •	75*
Yale University, jeremy.draghi@yale.edu	
Drew, Damien R. •	49*
University of Edinburgh, damienrdrew@yahoo.com.au	
Drummond, Alexei J. •	53, 59*, 69, 74, 75
University of Auckland, alexei@cs.auckland.ac.nz	
D'Souza, Daniel	78 ^P
Duckworth, Renee A. •	64*
University of Edinburgh, renee.duckworth@ed.ac.uk	
Dudash, Michele R.	57
University of Maryland, mrdudash@umd.edu	
Duenas, Luisa F. •	66, 87 ^P
Universidad de los Andes, Colombia, lf.duenas161@uniandes.edu.co	
Duffy, Siobain •	72*
Pennsylvania State University, smd16@psu.edu	
Dufresne, France	84 ^P
Université du Québec à Rimouski, france_dufresne@uqar.qc.ca	
Dunbar, Stephanie F. •	55*
University of Hawaii, sdunbar@hawaii.edu	
Duncan, Elizabeth •	80 ^P
University of Otago, elizabeth.duncan@otago.ac.nz	
Duncan, Richard P.	55
Lincoln University, duncanr@lincoln.ac.nz	
Dunn, Katherine A.	57
Dalhousie University, Kathy.Dunn@Dal.Ca	
Dunn, Michael •	50*
Max Planck Institut Psycholinguistics, Nijmegen, michael.dunn@mpi.nl	
Dupont, L.	55
MBA, Plymouth UK; Université Paris XII, Creteil, France	
Dziminski, Martin A. •	57*
University of Western Australia, mdzimins@cyllene.uwa.edu.au	

E

Eads, Brian D. •	58*
Indiana University, bdeads@indiana.edu	
Eason, Daryl K.	63
Department of Conservation, New Zealand	
Eberhard, Jessica	84 ^P
Louisiana State University, eberhard@lsu.edu	
Eble, Jeffrey A. •	66*
Hawaii Institute of Marine Biology, eble@hawaii.edu	
Edmands, Suzanne	65, 82 ^P
University of Southern California, sedmands@usc.edu	
Edward, Karen	69
University of Western Australia, edward02@student.uwa.edu.au	
Edwards, Danielle L.	50
Museum Victoria, dan@cyllene.uwa.edu.au	
Edwards, Danielle •	64*
Australian National University, Dan.Edwards@anu.edu.au	
Edwards, Scott V. •	28*, 58, 59, 59
Harvard University, sedwards@fas.harvard.edu	
Ehmer, Adam	57
Stony Brook University, aehmer@life.bio.sunysb.edu	
Eklöv, Peter •	73*
Uppsala University, Sweden, peter.eklov@ebc.uu.se	
Elango, Navin •	
Georgia Institute of Technology, navin@gatech.edu	
El-Hani, Charbel N.	81 ^P
Universidade Federal da Bahia, Brazil, charbel@ufba.br	
Elkin, Che	51
University of Queensland, c.elkin@uq.edu.au	
Elle, Elizabeth •	68*
Simon Fraser University, eelle@sfu.ca	
Ellingson, Ryan A. •	54*
University of California, Los Angeles, rellingson@ucla.edu	
Elliott, Graeme P.	63
Department of Conservation, New Zealand	
Ellis, Jennifer R. •	57*
Vanderbilt University, jennifer.ellis@vanderbilt.edu	
Ellstrand, Norman C.	83 ^P
University of California, Riverside, norman.ellstrand@ucr.edu	
El-Sayed, Ashraf	59
HortResearch, New Zealand, ael-sayed@hortresearch.co.nz	
Emerson, Brent	61
University of East Anglia, B.Emerson@uea.ac.uk	
Emerson, Kevin J. •	73*
University of Oregon, kemerson@uoregon.edu	
Emlen, Douglas J. •	73*
University of Montana, doug.emlen@mso.umt.edu	
Endler, John A.	55
University of Exeter, j.a.endler@exeter.ac.uk	
Engel, John J.	88 ^P
Field Museum of Natural History, jengel@fieldmuseum.org	
England, Phillip R. •	64
CSIRO, Australia, philip.england@csiro.au	
Erlich, Henry A.	84 ^P
Roche Molecular Systems	
Eroukhmanoff, Fabrice D. •	51*
Lund University, Sweden, Fabrice.Eroukhmanoff@zooekol.lu.se	
Escriva, Hector	73
Observatoire de Banyuls sur Mer, France	
Espinosa, Paola •	
Stony Brook University, espinosa@life.bio.sunysb.edu	
Estoup, Arnaud	55
INRA, France, estoup@supagro.inra.fr	
Evans, Ben J.	68
McMaster University, evansb@mcmaster.ca	
Evans, David H.	75
University of Florida, devans@zoo.ufl.edu	
Evans, Jonathan •	
University of Western Australia, jonevans@cyllene.uwa.edu.au	
Evans, Luke M. •	62*
Northern Arizona University, lme36@nau.edu	
Ewen-Campen, Ben	73
University of Montana, bewenga1@gmail.com	
Eyun, Seong-II	74
University of Nebraska, Lincoln, eyun@unlserve.unl.edu	
Ezaz, Tariq	65
Australian National University, tariq.ezaz@anu.edu.au	

F

Fahey, Bryony	71
University of Queensland, s201187@student.uq.edu.au	
Faith, Daniel P. •	72*
Australian Museum, danf@austmus.gov.au	

Faller, Beáta •

University of Canterbury, fallerbeata@yahoo.com

Faller, Lina •

University of New Hampshire, lina.faller@unh.edu

Falster, Daniel S. •

Macquarie University, dfalster@bio.mq.edu.au 55*

Faria, Deborah

81^P

Farr, Tracy J.

51

NIWA, New Zealand, t.farr@niwa.cri.nz

54*

Fawcett, James H. •

Griffith University, james.fawcett@griffith.edu.au

Feldman, Marcus W.

53, 75

Stanford University, marc@charles.stanford.edu

Ferrier, Simon

63

New South Wales Department Environment and Conservation,

simon.ferrier@environment.nsw.gov.au

Field, David L. •

67*

University of Wollongong, david.field@csiro.au

Fierst, Janna

65

Florida State University, jfierst@bio.fsu.edu

Fife, Allan •

Landcare Research, New Zealand, fifea@landcareresearch.co.nz

Finston, Terrie •

University of Western Australia, tfinston@cyllene.uwa.edu.au

Firman, Renee C. •

49*

University of Western Australia, rcfirman@cyllene.uwa.edu.au

Fischer, Mareike •

75*

Allan Wilson Centre, University of Canterbury,

mfi28@student.canterbury.ac.nz

Fisher, Marla A. •

82^P

University of Hawaii - Illo, marafisher@hawaii.edu

Fishman, Lila •

58*

University of Montana, lila.fishman@mso.umt.edu

Fitzgerald, Lee A.

61

Texas A&M University, lfitzgerald@tamu.edu

FitzJohn, Richard G. •

81^P

Landcare Research, New Zealand, rich.fitzjohn@gmail.com

Fitzpatrick, Benjamin M. •

63*, 87^P

University of Tennessee, benfitz@utk.edu

Fitzsimmons, Nancy

63

University of Canberra, Nancy.FitzSimmons@canberra.edu.au

Fleeman, Linda

81^P

University of Queensland, l.fleeman@uq.edu.au

Fleming, Theodore H.

61

University of Miami, t.fleming@fig.cox.miami.edu

Florio, Christopher

83^P

Marine Biological Laboratory, abarbosa@mbl.edu

Fong, Jonathan J. •

68*

University of California, Berkeley, j_fong@berkeley.edu

Fontanillas, Eric •

58*

Australian National University, eric.fontanillas@anu.edu.au

Fontanillas, Pierre •

65*

Harvard University, pfontani@oeb.harvard.edu

Ford, Kerr A. •

74*

Landcare Research, New Zealand,

forsk@LandcareResearch.co.nz

Forde, Alex J.

61

Carleton College, fordea@carleton.edu

Forest, Felix

74

Royal Botanic Gardens Kew, f.forest@kew.org

Forister, Matthew

57

University of Nevada, Reno, mforister@cabnr.unr.edu

Forsman, Zac H. •

66*

University of Hawaii, zac@hawaii.edu

Francis, Andrew R.

51, 56

University of Western Sydney, a.francis@uws.edu.au

Fraser, Ceridwen •

73*

Allan Wilson Centre, University of Otago,

frace297@student.otago.ac.nz

Freckleton, Rob

71

University of Sheffield, r.freckleton@sheffield.ac.uk

Fregoneze, Josmara

81^P

Colgate University, ffrey@mail.colgate.edu

Frey, Frank M.

67*

Colgate University, ffrey@mail.colgate.edu

Fris, Brad

75

Environmental and Science Research, New Zealand,

Brad.Fris@esr.cri.nz

Frisch, Ashley

63

James Cook University, ashley.frisch@jcu.edu.au

Frohlich, Donald R. •

85^P

University of St. Thomas, frohlich@stthom.edu

Fujita, Matthew K. •

68*

University of California, Berkeley, mkfujita@berkeley.edu

Fuller, Susan •

88^P

Queensland University of Technology, s.fuller@qut.edu.au

Fulton, Tara L. •

73*

University of Alberta, tarag@ualberta.ca

Funahashi, N.	65	Gillings, Michael	49
International Fund for Animal Welfare, Japan		Macquarie University, mgilling@bio.mq.edu.au	
Funk, Stephan M.	78 ^P	Gimnig, John	81 ^P
University of Puerto Rico, Stephan.Funk@hpcf.upr.edu		US Centers for Disease Control, jgimnig@cdc.gov	
Futuyma, Douglas J. •	57*	Giribet, Gonzalo	88 ^P
Stony Brook University, futuyma@life.bio.sunysb.edu		Harvard University, ggiribet@oeb.harvard.edu	
G			
G. Perron, Gabriel •	51*	Givnish, Thomas J.	73
Oxford University, gabriel.guimond-perron@zoo.ox.ac.uk		University of Wisconsin, Madison, givnish@wisc.edu	
Gage, Matt	61	Gleason, Jennifer M. •	72*
University of East Anglia, M.Gage @uea.ac.uk		University of Kansas, jgleason@ku.edu	
Galland, N.	86 ^P	Gleeson, Dianne M. •	50, 65*
Gallie, Jenna •	82 ^P	Landcare Research, New Zealand, gleesond@landcareresearch.co.nz	
University of Auckland, jgal023@ec.auckland.ac.nz		Glenny, David S. •	88 ^P
Gamble, Tony	61	Landcare Research, New Zealand, glennyd@landcareresearch.co.nz	
University of Minnesota, gambl007@umn.edu		Glor, Richard E.	73
Ganley, Austen R. D. •	58*	University of Rochester, rglor@mail.rochester.edu	
National Institute of Genetics, Japan, gausten@lab.nig.ac.jp		Goddard, Matthew R. •	67*
Gannon, Kathryn	52	University of Auckland, m.goddard@auckland.ac.nz	
Garcia-Gonzalez, Francisco •	87 ^P	Godfray, Hugh •	29*
University of Western Australia, pgarcia@cylene.uwa.edu.au		Oxford University, charles.godfray@zoo.ox.ac.uk	
Garcia-Moreno, Jaime	83 ^P	Goldberg, Julia •	71, 73, 79 ^P
Centro para la Conservación de la Biodiversidad México y Centroamérica, Costa Rica, j.garciamoreno@conservation.org		Allan Wilson Centre, Massey University, J.Goldberg@massey.ac.nz	
Garcia-Verdugo, C.	86 ^P	Goldman, Nick	68
Gardner, Andy •	76*	EMBL - European Bioinformatics Institute, goldman@ebi.ac.uk	
University of Edinburgh, andy.gardner@sjc.ox.ac.uk		Goldstien, Sharyn J. •	55*
Garnock-Jones, Philip J. •	55, 56, 57, 59*, 61	University of Canterbury, sharyn.goldstien@canterbury.ac.nz	
Victoria University of Wellington, phil.garnock-jones@vuw.ac.nz		Gonelevu, Mereoni •	88 ^P
Garrick, Ryan C.	48	University of the South Pacific, gonelevu_m@usp.ac.fj	
Virginia Commonwealth University, rcgarrick@vcu.edu		Gongora, Jaime •	84 ^P , 84 ^P , 85 ^P
Gaskell, Anne C. •	57*	University of Sydney, jaimeg@vetsci.usyd.edu.au	
Macquarie University, agaskell@bio.mq.edu.au		Gonzales, Lauren	84 ^P
Gatehouse, Hazel A. W.	55	New Mexico State University, lgonzal@nmsu.edu	
Lincoln University, gatehoh2@lincoln.ac.nz		Gonzalez, Andrew	51
Gatesy, John	71	McGill University, andrew.gonzalez@mcgill.ca	
University of California, Riverside, johnnga@ucr.edu		Goodman, Brett A. •	75*, 78 ^P
Gavaia, Paulo J.	54	James Cook University, brett.goodman@jcu.edu.au	
University of the Algarve, Portugal, pgavaia@ualg.pt		Gordon, Deborah M.	57
Gavrillets, Sergey •	61*	Stanford University, dmrgordon@stanford.edu	
University of Tennessee, gavrillets@tiem.utk.edu		Gouy, Manolo	71
Gemmell, Neil J. •	48, 49*, 51, 55, 63, 65, 65, 65, 75 80 ^P , 82 ^P , 84 ^P , 86 ^P , 87 ^P	Université Claude Bernard Lyon1, France, mgouy@biomserv.univ-lyon1.fr	
University of Canterbury, neil.gemmell@canterbury.ac.nz		Graves, Gary	84 ^P
Gemmill, Chrisseen E. C. •	70*, 86 ^P	Smithsonian Institution, Museum of Natural History, GravesG@si.edu	
University of Waikato, gemmill@waikato.ac.nz		Graves, Jenny	65
Geneva, Anthony J. •	56*, 81 ^P	Australian National University, Jenny.Graves@anu.edu.au	
Academy of Natural Sciences, Pennsylvania, geneva@ansp.org		Gray, Charles	53
Gentile, Gabriele	85 ^P	New South Wales Department of Primary Industries, Charles.Gray@dpi.nsw.gov.au	
George, Robert W.	60	Gray, Jeremy •	
U.S. Centers for Disease Control and Prevention, bms2@cdc.gov		University of Auckland, jgra163@ec.auckland.ac.nz	
Georges, Arthur •	63, 65	Gray, Karen	62
University of Canberra, georges@aerg.canberra.edu.au		Australian Museum, Karen.Gray@austmus.gov.au	
Geraads, Denis	85 ^P	Gray, Russell D. •	48*, 75
Gerardo, Nicole M. •	49*	University of Auckland, rd.gray@auckland.ac.nz	
University of Arizona, ngerardo@email.arizona.edu		Greaves, Stephanie N. J. •	50*
German, Donovan P. •	75*	Allan Wilson Centre, Victoria University of Wellington, steph.greaves@gmail.com	
University of Florida, dgerman@ufl.edu		Green, Hayley	66
Getz, Wayne M.	49	University of New South Wales, h.green@student.unsw.edu.au	
University of California, Berkeley, getz@nature.berkeley.edu		Green, Roger C.	75
Geyer, Laura B. •	53*	University of Auckland, pounamu@ihug.co.nz	
Smithsonian Tropical Research Institute, geyerl@si.edu		Greenbaum, Eli	61
Ghalambor, Cameron K. •	53*, 67	Villanova University, eli.greenbaum@villanova.edu	
Colorado State University, cameron1@lamar.colostate.edu		Greenhill, Simon J. •	48*
Ghiselli, Fabrizio	82 ^P	University of Auckland, s.greenhill@auckland.ac.nz	
University of Bologna, Italy, fabrizio.ghiselli@studio.unibo.it		Greenwood, David R.	53
Giacomelli, Mike G.	72	HortResearch, New Zealand, d.greenwood@hortresearch.co.nz	
Duke University, mgiacomelli@gmail.com		Greig, Duncan •	65*
Gibb, Gillian C. •	56, 73*	University College London, d.greig@ucl.ac.uk	
Allan Wilson Centre, Massey University, g.c.gibb@massey.ac.nz		Greischar, Megan A. •	79 ^P
Gibert, Janine	54	Indiana University, megreisc@indiana.edu	
Université Claude Bernard Lyon 1, France, janine.gibert@univ-lyon1.fr		Grenyer, Rich	74
Gifford, Matthew E.	49	Imperial College London, r.grenyer@ic.ac.uk	
Washington University, gifford@biology2.wustl.edu		Gresham, David	67
Gilchrist, Michael A. •	51*	Princeton University	
University of Tennessee, mikeg@utk.edu		Griffin, Philippa C. •	80 ^P
Gilchrist, Stuart	55	University of Melbourne, griffinp@unimelb.edu.au	
University of Sydney		Griffin, Pip	57
Gillespie, Joseph J.	61	University of Melbourne, griffinp@unimelb.edu.au	
University of Maryland		Griffith, Simon C.	63
Gillespie, Rosemary	87 ^P	University of New South Wales, s.griffith@unsw.edu.au	
University of California, Berkeley, gillespi@nature.berkeley.edu		Griffith, Simon C. •	59*
Gillette, Jennifer •		Macquarie University, simon.griffith@mq.edu.au	
University of Canterbury, jennifer.gillette@canterbury.ac.nz		Groth, David •	
		Curtin University, d.Groth@curtin.edu.au	

Grover, Crystal D.	85 ^P	Hasegawa, Masami	60, 66, 71
University of California, San Diego, crystal.grover@gmail.com		Fudan University, Japan, hasegawa@ism.ac.jp	
Grubbs, R. Dean	51	Hauber, Mark E. •	78 ^P
Hawaii Institute of Marine Biology		University of Auckland, m.hauber@auckland.ac.nz	
Grueber, Catherine E. •	61*	Hausdorf, Bernhard	72
University of Otago, gruca565@student.otago.ac.nz		University Hamburg Zoological Museum, hausdorf@zoologie.uni-hamburg.de	
Guerrero-Ferreira, Ricardo •	48*	Hauser, Lorenz	65
New Mexico State University, ricardo@nmsu.edu		University of Washington, lhauser@u.washington.edu	
Guillaume, Claude P.	66	Hautkeete, Nina	53
Centre d'écologie fonctionnelle et évolutive, France, Claude-Pierre.Guillaume@cefe.cnrs.fr		University Lille, France, nina.hautkeete@univ-lille1.fr	
Guindon, Stephane	57	Havell, David	55, 73
Laboratoire d'Informatique, de Robotique et de Mic, France, Stephane.Guindon@lirmm.fr		Department of Conservation, New Zealand, dhavell@doc.govt.nz	
Guzik, Michelle T. •	69*	Hawley, Melanie J. •	80 ^P
University of Adelaide, michelle.guzik@adelaide.edu.au		University of Otago, havme010@student.otago.ac.nz	
H			
Haas, Fredrik	51	Hayden, Christopher	71
Lund University, Sweden, Fredrik.Haas@teorekol.lu.se		Louisiana State University, chayde@lsu.edu	
Hackett, Shannon	71	Hayward, Jessica J. •	72*
Field Museum , shackett@fieldmuseum.org		Allan Wilson Centre, University of Auckland, j.hayward@auckland.ac.nz	
Hadany, Lilach •	65*, 67, 69	He, Daihai	69
University of Iowa, lilach-hadany@uiowa.edu		University of Michigan, daihai@umich.edu	
Hadly, Elizabeth A.	67	Healey, Mo •	51*
Stanford University, hadly@stanford.edu		University of Wollongong, mhealey@uow.edu.au	
Hadwen, Wade	51	Heard, Stephen B. •	57*
Griffith University, w.hadwen@griffith.edu.au		University of New Brunswick, sheard@unb.ca	
Haeseler, Arndt von	63	Heath, Daniel D.	74, 87 ^P
University of Vienna, arndt.von.haeseler@univie.ac.at		University of Windsor, dheath@uwindsor.ca	
Haffner, G. Douglas	74, 87 ^P	Heath, Tracy A. •	59*
University of Windsor, haffner@uwindsor.ca		University of Texas, Austin, tracyh@mail.utexas.edu	
Hahn, Matthew •	60*	Heenan, Peter B. •	65, 70, 82 ^P
Indiana University, mwh@indiana.edu		Landcare Research, New Zealand, heenap@landcareresearch.co.nz	
Haile, James S. •	62*	Heimeier, Dorothea •	80 ^P
Oxford University, james.haile@zoo.ox.ac.uk		University of Auckland, d.heimeier@auckland.ac.nz	
Hale, Joshua M. •	61*	Heled, Joseph •	69*
Museum Victoria; University of Melbourne, jhale@museum.vic.gov.au		University of Auckland, jheled@gmail.com	
Hale, Marie L. •	59*, 65, 86 ^P	Hembry, David •	87 ^P
University of Canterbury, marie.hale@canterbury.ac.nz		University of California, Berkeley, hembry@berkeley.edu	
Hale, Roddy J.	59	Hendry, Andrew P.	55, 67
Lincoln University, haler@lincoln.ac.nz		McGill University, andrew.hendry@mcgill.ca	
Hall, Matthew D. •	59*	Hendy, Michael D. •	56, 59, 68*, 68, 69, 72
University of New South Wales, m.hall@student.unsw.edu.au		Allan Wilson Centre, Massey University, m.hendy@massey.ac.nz	
Hallman, Clayton N. •	78 ^P	Henshaw, Michael T.	61
University of Oklahoma, clayhallman@ou.edu		McKendree College, mthenshaw@mckendree.college	
Haloin, Jon R. •	57*	Herberstein, Marie E.	57, 70
University of California, Davis, jhaloin@ucdavis.edu		Macquarie University, mherbers@bio.mq.edu.au	
Halverson, Kristy	57	Heschel, Shane	71
University of Missouri, klfh25@mizzou.edu		Colorado College, shane.heschel@coloradocollege.edu	
Hamady, Micah •	79 ^P	Heulin, Benoit	66
University of Colorado, Boulder, hamady@colorado.edu		Université Rennes 1, France, benoit.heulin@univ-rennes1.fr	
Hamilton, Deborah	62	Higa, Marguerite •	
Costa Rican Conservation Foundation, Costa Rica, fccmonteverde@racsra.co.cr		University of Hawaii, mbutler@hawaii.edu	
Hammer, Michael F.	75	Higbie, Megan •	65*
University of Arizona, mfh@u.arizona.edu		University of Queensland, m.higbie@sib.uq.edu.au	
Hancock, Adam S.	72	Hik, David S.	57
University of Arizona, adamh@email.arizona.edu		University of Alberta, dhik@ualberta.ca	
Hanlon, Roger T.	83 ^P	Hilborn, Ray	55
Marine Biological Laboratory, rhanlon@mbl.edu		University of Washington, rayh@u.washington.edu	
Hanotte, Olivier	85 ^P	Hill, Andrew	78 ^P
Hara, Yuichiro •	50*, 56*	Hill, Kathy B. R.	52, 63
Hokkaido University, Japan, hara@ist.hokudai.ac.jp		University of Connecticut, cicada900@yahoo.com.au	
Hardesty, Britta D. •	53*	Hillis, David M.	48, 59
CSIRO, Australia, denise.hardesty@csiro.au		University of Texas, Austin, dhillis@mail.utexas.edu	
Harmon, Luke	49, 75	Hills, Simon F. K. •	73*
University of British Columbia, harmon@zoology.ubc.ca		Allan Wilson Centre, Massey University, s.f.hills@massey.ac.nz	
Harper, Kristin N. •	60*	Himes, Christopher M. T. •	64*
Emory University, knharpe@emory.edu		University of Washington, himes@u.washington.edu	
Harrison, Richard G.	70	Hine, Emma •	65*
Cornell University, rhg4@cornell.edu		University of Queensland, e.hine@uq.edu.au	
Harshman, Lawrence G.	74, 82 ^P	Hines, Heather M.	61
University of Nebraska, Lincoln, lharsh@unlserve.unl.edu		University of Illinois	
Hart, Darren R.	51	Hingston, Martin C. •	86 ^P
University of Otago, darren.hart@otago.ac.nz		University of Auckland, martin@hingston.de	
Hartl, Daniel L.	65	Hingston, Melanie •	75, 79 ^P
Harvard University, dhartl@oeb.harvard.edu		Allan Wilson Centre, University of Auckland, melanie@hingston.de	
Hartmann, Klaas •	67*, 72	Hinnendaal, Frank	86 ^P
Allan Wilson Centre, University of Canterbury, k.hartmann@math.canterbury.ac.nz		University of Auckland, hinn0019@umn.edu	
Hartnup, Katie •	75*	Hirvonen, Heikki	61, 67
Allan Wilson Centre, Massey University, k.hartnup@massey.ac.nz		University of Helsinki, heikki.hirvonen@helsinki.fi	
Harvey, Mark S. •	69*	Hitchmough, Rodney •	
Western Australian Museum, mark.harvey@museum.wa.gov.au		Department of Conservation, New Zealand, rhitchmough@doc.govt.nz	

Hodgson, David J. •	51, 55*	
University of Exeter, d.j.hodgson@ex.ac.uk		
Hoebel, Susan E. •	57*, 63	
University of Melbourne, shoebee@unimelb.edu.au		
Hoeh, Walter Randolph	84 ^P	
Kent State University, randy.hoeh@gmail.com		
Hoekstra, Danielle (Hopi) E. •	58*	
Harvard University, hoekstra@oeb.harvard.edu		
Hoffmann, Ary A.	49, 49, 73, 80 ^P , 86 ^P , 86 ^P	
University of Melbourne, ary@unimelb.edu.au		
Hofling, Elizabeth	78 ^P	
Universidade de São Paulo, Brazil, ehofling@usp.br		
Hofmann, Christopher M. •	57*	
University of Maryland, Baltimore County, chofma1@gmail.com		
Hogg, Ian	69, 80 ^P	
University of Waikato, i.hogg@waikato.ac.nz		
Holbrook, Neil	57	
Macquarie University, neil.holbrook@mq.edu.au		
Holland, Barbara R. •	59, 62*, 69, 75	
Allan Wilson Centre, Massey University, b.r.holland@massey.ac.nz		
Holland, Brenden S. •	86 ^P	
University of Hawaii, bholland@hawaii.edu		
Holland, Nicholas D.	73	
Holley, Marita	49	
Macquarie University		
Hollis, Brian •	65*	
Florida State University, bhollis@bio.fsu.edu		
Holloway, Alisha K. •	70*	
University of California, Davis, akholloway@ucdavis.edu		
Holmes, Edward C.	72	
Pennsylvania State University, ech15@psu.edu		
Holmgren, Noél M. A.	49	
University of Skövde, Sweden, noel.holmgren@his.se		
Holt, Robert Dan •	28*	
University of Florida, rdholt@zoo.ufl.edu		
Holway, David A.	66, 85 ^P	
University of California, San Diego, dholway@biomail.ucsd.edu		
Holwell, Gregory I. •	70*	
Macquarie University, gholwell@bio.mq.edu.au		
Holzapfel, Christina M.	73	
University of Oregon, holz@uoregon.edu		
Honeycutt, Rodney L.	57	
Pepperdine University, Rodney.Honeycutt@pepperdine.edu		
Hood, Michael	78 ^P	
Hook, Kristin A. •	64*	
University of Texas at Austin, Ms.KristinHook@gmail.com		
Hopkins, Helen C. F.	55	
Royal Botanic Gardens, Kew		
Hopper, Stephen	64	
Royal Botanic Gardens, Kew, shopper@rbgkew.org.uk		
Horai, Satoshi	66	
Graduate University for Advanced Studies, Japan		
Horn, Thorsten •	80 ^P	
University of Canterbury, thorstenhorn@gmx.net		
Horn, John D. •	88 ^P	
Texas Christian University, J.Horner@TCU.edu		
Horta, Paulo A.	81 ^P	
Horvitz, Carol C.	63*	
University of Miami, carolhorvitz@miami.edu		
Hoshino, Daiju	82 ^P	
University of Texas at Arlington, dhoshino@uta.edu		
Houle, David	65	
Florida State University, dhoule@bio.fsu.edu		
Houlston, Gary J. •	65*	
Landcare Research, New Zealand, houlisong@landcareresearch.co.nz		
Huber, Sarah K. •	61*	
University of Massachusetts, shuber@bio.umass.edu		
Huchon-Pupko, Dorothee •	52*, 88 ^P	
Tel-Aviv University, huchond@post.tau.ac.il		
Huelsnbeck, John •		
University of California, Berkeley, johnh@berkeley.edu		
Huey, Joel A. •	54*	
Griffith University, j.huey@griffith.edu.au		
Hughes, Jane M.	51, 54, 54, 54, 54, 58, 65	
Griffith University, Jane.Hughes@griffith.edu.au		
Huijzinga, Meribeth •	53, 67*	
Colorado State University, Meribeth.Huijzinga@ColoState.edu		
Hull, Pincelli M. •	71*	
University of California, San Diego, phull@ucsd.edu		
Humphrey, Christopher L.	62	
Environ. Res. Inst. Supervising Scientist, Darwin, chris.humphrey@deh.gov.au		
Humphreys, Garth	69	
Humphreys, William F.	69, 69, 69, 71	
Western Australian Museum, bill.humphreys@museum.wa.gov.au		
Humphries, Peter •		
University of Canterbury, pjh96@student.canterbury.ac.nz		
Hunt, James H.		61
University of Missouri, St. Louis		
Hunt, John		59
University of Exeter, J.Hunt@exeter.ac.uk		
Hunter, Cynthia L.		66
University of Hawaii		
Hurford, Amy L. •		51*
Queen's University, ahurford@mast.queensu.ca		
Hurst, Jane L.		61, 67
University of Liverpool, jhurst@liverpool.ac.uk		
Hurwood, D.		88 ^P
Queensland University of Technology, d.hurwood@qut.edu.au		
Husband, Brian C.		63
University of Guelph, bhusband@uoguelph.ca		
Huson, Daniel H.		57
Universität Tübingen, Germany, huson@informatik.uni-tuebingen.de		
Huttley, Gavin •		50*
Australian National University, Gavin.Huttley@anu.edu.au		
Huynen, Leon		75
Allan Wilson Centre, Massey University, l.j.huynen@massey.ac.nz		
Huynh, Lynn Y. •		81 ^P
Emory University, lyhuynh@emory.edu		
Hwang, AnnMarie S. •		65*
University of Southern California, achinen@usc.edu		
I		
Iline, Ilia		75
AgResearch, New Zealand, Ilia.Iline@agresearch.co.nz		
Imai, Maki		85 ^P
Hokkaido University, Japan, makiimai@ees.hokudai.ac.jp		
Inglis, Robert F. •		82 ^P
University of Oxford, robert.inglis@zoo.ox.ac.uk		
Inoue, Jun G.		83 ^P
Florida State University, inoue@scs.fsu.edu		
Isaksson, Caroline •		
Göteborg University, Sweden, caroline.isaksson@zool.gu.se		
Itami, Joanne K.		88 ^P
University of Minnesota - Duluth, jitami@d.umn.edu		
Ito, Motomi		63
University of Tokyo, cmito@mail.ecc.u-tokyo.ac.jp		
J		
Jabot, Franck		75
Polytechnique, Paris, franck_jabot@yahoo.fr		
Jackman, Todd R.		56, 61, 88 ^P
Villanova University, todd.jackman@villanova.edu		
Jako, Eena •		57
Eotvos University, Hungary, jakoeena@msn.com		
Jakob, Elizabeth •		
University of Massachusetts, ejakob@psych.umass.edu		
Jamieson, Ian G. •		61, 61*, 83 ^P
University of Otago, ian.jamieson@stonebow.otago.ac.nz		
Jansen van Vuuren, Bettine •		48*, 56, 62
Stellenbosch University, South Africa, bjvv@sun.ac.za		
Jansen, Bart		70
HortResearch, New Zealand, bjanssen@hortresearch.co.nz		
Jansen, Gunther •		88 ^P
University of Helsinki, gunther.jansen@helsinki.fi		
Järvenpää, Marja H. •		51*
University of Helsinki, marja.jarvenpaa@helsinki.fi		
Jarvis, Peter D.		71
University of Tasmania, Peter.Jarvis@utas.edu.au		
Jenkins, Antoinette •		
Imperial College, London, antoinette.jenkins01@imperial.ac.uk		
Jenkins, Tania		49*
Imperial College, London, antoinette.jenkins01@imperial.ac.uk		
Jermiin, Lars S. •		71, 71*
University of Sydney, lars.jermiin@sydney.edu.au		
Jerome, Ihuma		63
Federal University of Technology, Nigeria, eromey2@yahoo.com		
Jesson, Linley K. •		57, 57*, 59, 59, 61
University of New Brunswick, jesson@unb.ca		
Jetz, Walter •		71*
University of California, San Diego, wjetz@ucsd.edu		
Jewell, Tony		50
Johansson, Helena •		51, 70*
University of Wales, Bangor, bsp00c@bangor.ac.uk		
Johansson, Jacob •		73*
Lund University, Sweden, jacob.johansson@teorekol.lu.se		
Johnson, Christopher		55
James Cook University, Christopher.Johnson@jcu.edu.au		

Johnson, Karen •		
University of Tasmania, johnsonk@utas.edu.au		
Johnson, Kevin P.	57	
Illinois Natural History Survey, kjohnson@inhs.uiuc.edu		
Johnson, Leah R. •	83 ^P	
University of Cambridge, leah@statslab.cam.ac.uk		
Johnson, Philip L. F. •	67*	
University of California, Berkeley, plfjohnson@berkeley.edu		
Johnson, Rebecca	62	
Australian Museum, rebecca.johnson@austmus.gov.au		
Johnson, Travis K. •	84 ^P	
Monash University, travis.johnson@sci.monash.edu.au		
Johnston, Mark O.	57	
Joly, Simon •	55, 63*	
Allan Wilson Centre, Massey University, s.joly@massey.ac.nz		
Jones, Corbin D. •	56*	
University of North Carolina, Chapel Hill, cdjones@email.unc.edu		
Jones, Felicity •	49, 49*	
Stanford University; University of Canterbury, fjones@bio.mq.edu.au		
Jones, Julia C.	71*	
University of Sydney, jjones@bio.usyd.edu.au		
Jones, Tracey C. •	81 ^P	
University of Waikato, tjones@waikato.ac.nz		
Jordan, Crispin Y. •	59*	
University of British Columbia, jordan@zoology.ubc.ca		
Jordan, Fiona •	48*, 50*	
University College London, f.jordan@ucl.ac.uk		
Jordan, Ursula	52	
University of Muenster, Germany, jordanu@uni-muenster.de		
Joseph, Everton O.	49	
College of the Bahamas		
Jost, Manda Clair •	48*	
University of Texas, mandaclair@mail.utexas.edu		
Jürgens, Andreas •	59, 59*	
HortResearch, New Zealand, ajuergens@hortresearch.co.nz		
Jury, Francine	61, 67	
University of Manchester		

K

Kachman, Steve	82 ^P	
University of Nebraska, Lincoln, skachman1@unlserve.unl.edu		
Kapan, Durrell	82 ^P	
University of Hawaii Manoa, durrell@hawaii.edu		
Kärkkäinen, Katri	73	
University of Oulu, Finland, katri.karkkainen@metla.fi		
Kaufman, Leyla V.	55	
University of Hawaii at Manoa, leyла@hawaii.edu		
Kawai, Takashi •	87 ^P	
Kyushu University, Japan, kawai@ambl-ku.jp		
Kawakami, Takeshi •	50*	
South Australian Museum, z3112267@unsw.adfa.edu.au		
Kawasaki, Noriyoshi •	55*	
University of New South Wales, n.kawasaki@unsw.edu.au		
Kawazaki, Clarice S.	81 ^P	
Kay, Adam D. •	82 ^P , 85 ^P	
University of St. Thomas, adkay@stthomas.edu		
Kean, John M.	75	
Keeney, Devon B. •	57*, 59	
University of Otago, devon.keeney@stonebow.otago.ac.nz		
Kelleher, Erin S. •	67*	
University of Arizona, kelleher@email.arizona.edu		
Keller, Stephen R. •	53*	
University of Virginia, srk3d@virginia.edu		
Kellermann, Vanessa M. •	49*, 86 ^P	
University of Melbourne, v.kellermann@pgrad.unimelb.edu.au		
Kelly, Dave •		
University of Canterbury, dave.kelly@canterbury.ac.nz		
Kelso, Janet	63	
Max Planck Institute for Evolutionary Anthropology, kelso@eva.mpg.de		
Kemp, Darrell J. •	59*	
James Cook University, darrell.kemp@jcu.edu.au		
Kenagy, G. J.	64	
University of Washington, kenagy@u.washington.edu		
Kennedy, Martyn •	54*, 66, 71	
Allan Wilson Centre, University of Otago, martyn.kennedy@stonebow.otago.ac.nz		
Kent, Lisa M. •	83 ^P	
University of Arizona, likent@email.arizona.edu		
Keogh, J. Scott	54, 67	
Australian National University, Scott.Keogh@anu.edu.au		
Khaitovich, Philipp •	63*	
Max Planck Institute for Evolutionary Anthropology, khaitovich@eva.mpg.de		
Khan, Hameed •	63*	
Dalhousie University, khanh@dal.ca		
Killion-Atwood, Amanda		87 ^P
University of North Carolina Greensboro		
Kilpatrick, C. William		52
University of Vermont, C-William.Kilpatrick@uvm.edu		
Kim, Tae Won •		65*
Ewha Womans University, Korea, ktwon@ewha.ac.kr		
Kimball, Rebecca •		
University of Florida, rkimball@zoo.ufl.edu		
King, Aaron A.		69
University of Michigan, aaron.king@umich.edu		
King, Tania •		56, 86 ^P
University of Otago, tania.king@stonebow.otago.ac.nz		
Kirchman, Jeremy J. •		60*
New York State Museum, jkirchma@mail.nysed.gov		
Kirkness, Ewen F.		50, 65
The J. Craig Venter Institute, ekirknes@tigr.ORG		
Kirkpatrick, Mark		76
University of Texas at Austin, kirkp@mail.utexas.edu		
Kirschner, Jan		66
Academy of Sciences of the Czech Republic		
Klaere, Steffen •		63*
CIBIV / MFPL, Austria, steffen.klaere@univie.ac.at		
Kleindorfer, Sonja M.		59, 75
Flinders University of South Australia, sonia.kleindorfer@flinders.edu.au		
Klingel, Hans		85 ^P
Klussmann-Kolb, Annette		82 ^P
Knapp, Michael •		73*
Max Planck Institute for Evolutionary Anthropology, michael_knapp@eva.mpg.de		
Knight, Robin •		55*, 79 ^P
University of Colorado, Boulder, rob@spot.colorado.edu		
Knight, Tiffany M.		57
Knope, Matthew L. •		52*
University of Hawaii, knope@hawaii.edu		
Knowles, L. Lacey		80 ^P
University of Michigan, knowlesl@umich.edu		
Knurr, Timo		73
University of Oulu, Finland, timi.knurr@oulu.fi		
Kobayashi, Naoki •		49, 49*
Tokyo Institute of Technology, kobayashi.n.aj@m.titech.ac.jp		
Kobayashi, Takehiko		58
National Institute of Genetics, Japan, takobaya@lab.nig.ac.jp		
Koh, Joshua		57
University of Melbourne, j.koh8@pgrad.unimelb.edu.au		
Kohout, Rudy J.		61
Queensland Museum, rudolf.kohout@qm.qld.gov.au		
Kolbe, Jason J. •		53*
University of Sydney, jjkolbe@gmail.com		
Kordis, Dusan •		65*
Josef Stefan Institute, Slovenia, dusan.kordis@ijs.si		
Kortet, Raina •		61*
University of Oulu, Finland, raina.kortet@oulu.fi		
Koskella, Britt •		69*, 79 ^P
Indiana University, bkoskell@indiana.edu		
Kost, Christian •		51*
University of Auckland, Christiankost@web.de		
Koyanagi, Kanako O.		50, 56
Hokkaido University, Japan		
Kozera, Catherine		63
The Atlantic Genome Centre, Catherine.Kozera@nrc-cnrc.gc.ca		
Kozlowski, Jan		79 ^P
Jagiellonian University, Krakow, Poland, kozlo@eko.uj.edu.pl		
Krauss, Siegy L.		53
Kings Park and Botanic Garden, Australia, skrauss@bgpa.wa.gov.au		
Kristensen, Torsten N.		49, 86 ^P
University of Melbourne, Torsten.Nygaard@agrsci.dk		
Krockenberger, Andrew K.		78 ^P
James Cook University, Andrew.Krockenberger@jcu.edu.au		
Kroodsma, Don E.		62
University of Massachusetts, dekroodsma@yahoo.com		
Krosch, Matthew N. •		86 ^P
Queensland University of Technology, m.krosch@student.qut.edu.au		
Krug, Patrick J.		54
California State University, Los Angeles, pkrug@calstatela.edu		
Krull, Maren		64
University of Muenster, Germany, mkrull@uni-muenster.de		
Kucharski, Robert		63
Australian National University		
Kuntner, Matjaz •		66*
Slovenian Academy of Sciences and Arts, kuntner@gmail.com		
Kupriyanova, Elena K. •		53*
University of Adelaide, ekupri01@adelaide.edu.au		
Kuroiwa, Asato		49
Hokkaido University, Japan, asatok@cris.hokudai.ac.jp		
Kwadwo, Osei •		
oseikwadwo84@hotmail.com		

L

Lachance, Joseph L. •	67*
Stony Brook University, Joseph.Lachance@sunysb.edu	
Ladd, Brenton M.	69
University of New South Wales, brenton.ladd@unsw.edu.au	
Ladley, Jenny •	
University of Canterbury, jenny.ladley@canterbury.ac.nz	
Laffan, Shawn W.	74
University of New South Wales, shawn.laffan@unsw.edu.au	
Lagrue, Clément •	55*
University of Otago, lagcl981@student.otago.ac.nz	
Lajeunesse, Marc J. •	57*
Cornell University, mjl63@cornell.edu	
Lakhanpaul, Suman	68
University of Delhi, India	
Lamanna, Christine	75
University of Arizona, clamanna@email.arizona.edu	
Lambert, David M. •	50, 55, 55, 56*, 68, 72, 75
Allan Wilson Centre, Massey University, D.M.Lambert@massey.ac.nz	
Lambrecht, Susan C. •	63*
San Jose State University, slambrec@email.sjsu.edu	
Lancaster, Alexander K. •	75*, 84 ^P
University of Arizona, alexlanc@u.arizona.edu	
Langtot, Richard B.	58
US Fish and Wildlife, richard_langtот@fws.gov	
Lane, Amanda M. •	51*
University of Sydney, alane@bio.usyd.edu.au	
Langerhans, R. Brian •	49*
Harvard University, langerhans@oeb.harvard.edu	
Lapointe, Francois-Joseph	65
Université de Montréal, francois-joseph.lapointe@umontreal.ca	
Large, Maryanne C. J.	71
University of Sydney	
Larkin, Leah L. •	64*
University of New Mexico, llarkin@unm.edu	
Larroux, Claire •	73*
University of Queensland, clarroux@zen.uq.edu.au	
Laudet, Vincent	73
Lautala, Tiina Mirjami •	61, 67*
University of Helsinki, tiina.lautala@helsinki.fi	
Lavery, Shane D. •	59, 65*, 86 ^P
University of Auckland, S.Lavery@auckland.ac.nz	
Lawrence, Hayley A. •	55*
Allan Wilson Centre, Massey University, h.lawrence@massey.ac.nz	
Lawrie, David S. •	84 ^P
Cornell University, dsl35@cornell.edu	
Laws, Rebecca J. •	83 ^P
University of Otago, rebeccalaws@hotmail.com	
Lawson, Lucinda •	48*
University of Chicago, llawson@uchicago.edu	
Le Roux, Johannes •	49*, 55
University of Hawaii, roux@hawaii.edu	
Leache, Adam D. •	52
University of California, Berkeley, leache@berkeley.edu	
Lee, Ben D.	79 ^P
University of Puget Sound, bendavidlee@gmail.com	
Lee, Chee Yang •	
Curtin University, keigodotcom@hotmail.com	
Lee, June Yong •	58*
Harvard University, jylee@fas.harvard.edu	
Lees, David C.	87 ^P
Natural History Museum, London, dclees@gmail.com	
Lehman, Niles	83 ^P
Portland State University, niles@pdx.edu	
Lehnebach, Carlos A. •	55*
Allan Wilson Centre, Massey University, C.A.Lehnebach@massey.ac.nz	
Leigh, Christopher M.	79 ^P , 80 ^P
University of Adelaide, chris.leigh@adelaide.edu.au	
Leijs, Remko •	49, 69*, 71
South Australian Museum; Adelaide University, leijs.remko@saugov.sa.gov.au	
Lembicz, Marlena	79 ^P
A. Mickiewicz University, Poznan, Poland	
Leme, Claudia L. D.	81 ^P
Lemmon, Alan R. •	58*, 59, 60
University of Texas, Austin, alemmon@evotutor.org	
Lemon, Kristina L.	79 ^P
Lenormand, Thomas	62
CEFE - CNRS (UMR 5175), France, thomas.lenormand@cefe.cnrs.fr	
Lenski, Richard •	
Michigan State University, lenski@msu.edu	
Leo, Natalie P.	55
Primate Research Institute, Japan, nleo@pri.kyoto-u.ac.jp	

Leppänen, Jenni M. •	85 ^P
University of Helsinki, jenni.leppanen@helsinki.fi	
Leschen, Richard A. B. •	52, 85 ^P
Landcare Research, New Zealand, leschenr@landcareresearch.co.nz	
Leslie, Alison	78 ^P
University of Toronto, none	
Lessios, Harilaos	53
Smithsonian Tropical Research Institute, lessiosh@si.edu	
Leung, Tommy L. F. •	59*
University of Otago, leuto618@student.otago.ac.nz	
Leys, Remko (see Leijs, Remko)	
Li, Wai Lok Sibon •	53*
University of Auckland, wli051@ec.auckland.ac.nz	
Liggins, Elizabeth •	60*
Allan Wilson Centre, Victoria University of Wellington, libbyliggins@gmail.com	
Light, Jessica E.	81 ^P
University of Florida, jlight@flmnh.ufl.edu	
Lin, Sung-Han •	82 ^P
National Taiwan University , r95632007@ntu.edu.tw	
Linaras, Marjorie C. •	87 ^P
University of New Orleans, mclinare@uno.edu	
Linde, Celeste C.	69
Australian National University, celeste.linde@anu.edu.au	
Linder, C. Randal •	71*
University of Texas, rlinder@mail.utexas.edu	
Lindsay, Helen	50
Australian National University, Helen.Lindsay@anu.edu.au	
Lindström, Kai B.	51
Abo Akademi, Finland, kai.lindstrom@abo.fi	
Linksvayer, Timothy A. •	49*
Arizona State University, timothy.linksvayer@asu.edu	
Linz, Simone •	65*
University of Canterbury, linz@cs.uni-duesseldorf.de	
Liu, Hsi	60
U.S. Centers for Disease Control and Prevention, hcl6@cdc.gov	
Lively, Curtis M. •	52*, 69
Indiana University, clively@indiana.edu	
Llaurens, Violaine C. •	61*
Laboratoire GEPV (UMR CNRS), France, violaine.lllaurens@ed.univ-lille1.fr	
Lockhart, Peter J. •	55, 56, 63, 69*, 70, 73, 80 ^P
Allan Wilson Centre, Massey University, p.j.lockhart@massey.ac.nz	
Lougheed, Stephen	75, 75
Queen's University, lougheed@biology.queensu.ca	
Louis, Edward E.	65
Henry Doorly Zoo, edlo@omahazoo.com	
Lowden, Stewart	84 ^P , 85 ^P
Loymann, Freddie	57
CSIRO Plant Industry, Australia, freddie.loymann@csiro.au	
Lozupone, Catherine	79 ^P
University of Colorado, Boulder, catherine.lozupone@colorado.edu	
Luciani, Fabio	51
University of New South Wales, luciani@unsw.edu.au	
Lumme, Jaakko	59, 81 ^P
University of Oulu, Finland, jaakko.lumme@oulu.fi	
Lundberg, Per	73
Lund University, Sweden	
Lundquist, Carolyn	80 ^P
NIWA, New Zealand, c.lundquist@niwa.co.nz	
Lynch, Michael	58, 63, 65
Indiana University, milynch@indiana.edu	

M

Ma, Chunseng	71
Wichita State University, cma@math.twsu.edu	
Ma, Daina •	82 ^P
University of Texas at Arlington, dinama@uta.edu	
Ma, Ka Yan	71
Chinese University of Hong Kong, makayana@cuhk.edu.hk	
Maas, Els W.	64
NIWA, New Zealand, e.maas@niwa.co.nz	
Mabuchi, Kohji	83 ^P
University of Tokyo, mabuchi@ori.u-tokyo.ac.jp	
MacDonald, Anna J. •	50*
University of Canberra, macdonald@aerg.canberra.edu.au	
Mace, Ruth	50
University College London, r.mace@ucl.ac.uk	
Machado, Carlos A.	69, 79 ^P
University of Arizona, cmachado@email.arizona.edu	
Mack, Steven J.	84 ^P
Children's Hospital Research Institute, Oakland	
Mackay, Trudy F. C.	60
North Carolina State University, trudy_mackay@ncsu.edu	

MacKenzie, Jason B. •	63*	Matisoo-Smith, Elizabeth A. •	54, 75*
University of California, Berkeley, jbm@berkeley.edu		Allan Wilson Centre, University of Auckland, e.matisoo-smith@auckland.ac.nz	
Maddison, Wayne P. •	72	Matsen, Frederick A. •	53*
University of British Columbia		Allan Wilson Centre, University of Canterbury, ematsen@gmail.com	
Madsen, Thomas •	57	Matsui, Atsushi •	66*
University of Wollongong, madsen@uow.edu.au		Japan Institute of Statistical Mathematics, matsui_atsushi@soken.ac.jp	
Maekawa, Koji •		Matsumoto, Asako •	
Hokkaido University, Japan, mkoji@fsc.hokudai.ac.jp		Ocean Research Institute, Japan, amatsu@gorgonian.jp	
Mahler, D. Luke •	71*	Matsumoto, Hiro	78 ^P
Harvard University, lmahler@oeb.harvard.edu		Matthee, Conrad A. •	60, 60*
Makino, Takashi T. •	78 ^P	Stellenbosch University, South Africa, cam@sun.ac.za	
University of Tsukuba, Japan, makinott@pe.ies.life.tsukuba.ac.jp		Matveev, Vitaly A. •	83 ^P
Maklakov, Alexei A. •	53*	Tokyo Institute of Technology, vital-m@mail.ru	
University of New South Wales, A.Maklakov@unsw.edu.au		Maughan, Heather •	51*, 70*
Malard, Florian	54	University of British Columbia, maughan@zoology.ubc.ca	
Universite Claude Bernard Lyon 1, France, florian.malard@univ-lyon1.fr		Maxwell, Michael	49
Malenke, Jael R. •	57*	Australian National University, Peter.Maxwell@anu.edu.au	50
University of Utah, malenke@biology.utah.edu		Mazer, Susan J.	57
Maleszka, Ryszard	63	Australian National University, Peter.Maxwell@anu.edu.au	49
Australian National University		McBride, Katherine P.	49
Malone, John H.	72	University of Canterbury, kathbruce@gmail.com	
University of Texas, Arlington, smilisca@uta.edu		McCauley, David E.	57
Maloney, Richard	65	Vanderbilt University, david.e.mccauley@vanderbilt.edu	
Department of Conservation, New Zealand, rmaloney@doc.govt.nz		McChord, Johanna •	80 ^P
Malumbres, Jagoba •		University of Otago, mccjo446@student.otago.ac.nz	
Lincoln University, malumbj2@lincoln.ac.nz		McCormick, Mark I.	55, 63, 69
Mangel, Marc S.	83 ^P	James Cook University, mark.mccormick@jcu.edu.au	
mmsmangel@soe.ucsc.edu		McCracken, Kevin G.	58, 73
Manhire-Heath, Rosemary •	80 ^P	University of Alaska Fairbanks, fnkgm@uaf.edu	
University of Otago, manro899@student.otago.ac.nz		McGaughran, Angela •	
Manion, Glenn	63	Allan Wilson Centre, Massey University, a.mcgaughran@massey.ac.nz	
New South Wales Department of Environment and Conservation, glenn.manion@environment.nsw.gov.au		McGlone, Matt S.	73
Mannen, Hideyuki	74	Landcare Research, New Zealand, mcglonem@landcareresearch.co.nz	
Kobe University		McGowen, Michael R. •	71*
Mantziou, Georgia	61	University of California Riverside, mmcgo002@student.ucr.edu	
Museum Victoria, gmantziou@museum.vic.gov.au		McGraw, Elizabeth •	51*
Marchinko, Kerry B. •	71*	University of Queensland, e.mcgraw@uq.edu.au	
University of British Columbia, kmarchin@zoology.ubc.ca		McGuigan, Katrina •	65*, 86 ^P
Mardulyn, Patrick	73	University of Queensland, k.mcguigan1@uq.edu.au	
Free University of Brussels, Belgium, pmarduly@ulb.ac.be		McKay, John •	56*
Mariette, Mylene •	63*	Colorado State University, jkmckay@colostate.edu	
University of New South Wales, mmariette7@hotmail.com		McKeechnie, Stephen W.	84 ^P
Markow, Therese A.	67	Monash University, stephen.mckechnie@sci.monash.edu.au	
University of Arizona, tmarkow@public.arl.arizona.edu		McKenzie, C. L.	85 ^P
Markowitz, Sidney •	74*	USDA/ARS, Ft. Pierce, Florida	
University of Auckland, sidney@sidney.com		McKenzie, Robert J. •	63*
Marnocha, Erin •	63*	Rhodes University, South Africa, r.mckenzie@ru.ac.za	
University of California, Los Angeles, erinlea@ucla.edu		McKie, Brendan G.	86 ^P
Maroja, Luana •	70*	University of Umea, Sweden, brendan.mckie@emg.umu.se	
Cornell University, lsm26@cornell.edu		McKone, Mark J. •	61*
Maron, John •	64*	Carleton College, mmckone@carleton.edu	
University of Montana, john.maron@mso.umt.edu		McLenaghan, Patricia A.	54, 75
Marques, Antonio C.	81 ^P	Allan Wilson Centre, Massey University, P.A.McLenaghan@massey.ac.nz	
Marris, John •		Mcmillan, W. Owen	78 ^P
Lincoln University, marris@lincoln.ac.nz		North Carolina State University, womcmill@ncsu.edu	
Marsh, Thomas C.	85 ^P	McNamara, Patrick	71
University of St. Thomas, tcmarsh@stthomas.edu		Boston University, pmcnamar@verizon.net	
Marshall, David C.	52, 62, 63	McNeill, Mark R.	75
University of Connecticut, david_marshall@uconn.edu		Mead, Louise S. •	70*
Marshall, Jonathan C. •	85 ^P	National Center for Science Education, USA, mead@ncseweb.org	
Southern Utah University, marshall@suu.edu		Meagher, Thomas R. •	68*
Marshall, Sean	78 ^P	University of St Andrews, trm3@st-and.ac.uk	
Marske, Katharine A. •	52, 85 ^P	Meaux, Juliette de	72
Landcare Research, New Zealand, marskek@landcareresearch.co.nz		Max Planck Institute, demeaux@mpiz-koeln.mpg.de	
Martin, Andrew P.	67	Meier, Rudolf	67
University of Colorado, am@colorado.edu		National University of Singapore, dbsmr@nus.edu.sg	
Martin, Guillaume •	62*	Meintjes, Peter L. •	82 ^P
CEFE - CNRS (UMR 5175), France, guillaume.martin@unil.ch		University of Auckland, p.meintjes@auckland.ac.nz	
Martini, Oliver	61	Melville, Jane E. •	50, 61, 75*
University of East Anglia, O.Martin@uea.ac.uk		Museum Victoria, jmelv@museum.vic.gov.au	
Martin, Sara L. •	63*	Merkel, Angelika •	84 ^P
University of Guelph, wagners@uoguelph.ca		University of Canterbury, ame52@student.canterbury.ac.nz	
Martinsen, Ellen S.	81 ^P	Messing, Russl H.	49
University of Vermont, emartins@uvm.edu		Metcalf, Jessica L.	67
Marussich, Wendy A. •	69*	University of Colorado, Jessica.Metcalf@colorado.edu	
University of Arizona, wmarussi@email.arizona.edu		Metcalf, Victoria J.	49, 51, 87 ^P
Masci, Katherine D. •	54*	University of Canterbury, victoria.metcalf@canterbury.ac.nz	
Griffith University, k.masci@griffith.edu.au		Metzler, Dirk	82 ^P
Masel, Joanna •	51, 72*, 75	Meudt, Heidi M. •	56*, 62
University of Arizona, masel@u.arizona.edu		Museum of New Zealand Te Papa Tongarewa, heidim@tepapa.govt.nz	
Mateman, Christa	53	Meyer, Diogo	81 ^P
Netherlands Institute of Ecology, c.mateman@nioo.knaw.nl		Michalak, Pawel •	72*, 82 ^P
Mather, Peter B.	58, 86 ^P	University of Texas Arlington, michalak@uta.edu	
Queensland University of Technology, p.mather@qut.edu.au			
Matisoo-Smith, Elisabeth	79 ^P		
Allan Wilson Centre, University of Auckland, e.matisoo-smith@auckland.ac.nz			

Michalczyk, Lukasz K. •	61*	Moyle, Leonie C. •	72*
University of East Anglia, L.Michalczyk@uea.ac.uk		Indiana University, lmoyle@indiana.edu	
Michor, Franziska •	76*	Mueller, Ulrich G.	52
Harvard University, michor@fas.harvard.edu		University of Texas at Austin, umueller@mail.utexas.edu	
Miklos, Istvan	65	Mugue, Nikolai S. •	55, 86 ^P
Eotvos Lorand University, Hungary, miklosi@ramet.elte.hu		VNIRO, Russia, mugue@mail.ru	
Mikolajczyk, Paulina	79 ^P	Muir, Cam	82 ^P
A. Mickiewicz University, Poznan, Poland, paulina.mikolajczak@gmail.com		University of Hawaii - Hilo, cmuir@hawaii.edu	
Milani, Liliana	82 ^P	Muller, Wiebke •	65*
University of Bologna, Italy, liliana.milani@studio.unibo.it		University of Canterbury, wmu11@student.canterbury.ac.nz	
Miles, Donald B.	75	Munday, Philip L.	69
Ohio University, milesd@ohio.edu		James Cook University, philip.munday@jcu.edu.au	
Miles, Lee	84 ^P , 84 ^P	Munechika, Isao	66
		Research Institute of Evolutionary Biology, Japan, munechik@peach.ocn.ne.jp	
Millar, Craig D. •	50, 55, 56, 72, 78 ^P	Munoz, Francois	61
Allan Wilson Centre, University of Auckland, cd.millar@auckland.ac.nz		CEFE-CNRS, France	
Millar, Melissa A. •	63*	Munzinger, Jérôme	55, 79 ^P
University of Adelaide, melissa.millar@dec.wa.gov.au		IRD Institut de recherche pour le développement, New Caledonia, Jerome.munzinger@noumea.ird.nc	
Miller, Hilary C. •	68*	Murata, Koichi	62
Allan Wilson Centre, Victoria University of Wellington, hilary.miller@vuw.ac.nz		Nihon University, Japan	
Miller, Kimberly A. •	61*	Murphy, Helen T.	53
Allan Wilson Centre, Victoria University of Wellington, Kimberly.Miller@vu.ac.nz		CSIRO, Australia, helen.murphy@csiro.au	
Mills, Courtenay E. •	51*	Murphy, Nicholas P. •	69*, 73*
Griffith University, courtenay.mills@student.gu.edu.au		University of Adelaide, nicholas.murphy@adelaide.edu.au	
Mills, James A.	53		
Minchinton, Todd E.	64		
University of Wollongong, tminch@uow.edu.au			
Mindell, David P. •	62, 83 ^P , 85 ^P		
University of Michigan, mindell@umich.edu			
Mitchell, Randall J.	57	Nachman, Michael W.	83 ^P
Hokkaido University, Japan, miu@ees.hokudai.ac.jp	85 ^P	University of Arizona, nachman@email.arizona.edu	
Miya, Masaki •	83 ^P	Naduvilezhath, Lisha •	82 ^P
Natural History Museum and Institute, Chiba, Japan, miya@chiba-muse.or.jp		Johann Wolfgang Goethe University, Germany, nlisha@hotmail.com	
Miyagi, Ryutaro •	51*	Nagel, Laura •	75*, 75*, 78 ^P , 78 ^P
Tokyo Institute of Technology, miyagi.r.aa@m.titech.ac.jp		Queen's University, nagell@biology.queensu.ca	
Mizoiri, Shinji	51	Naish, Kerry •	65*
Tokyo Institute of Technology, mizoiri@nibb.ac.jp		University of Washington, knaish@u.washington.edu	
Mohandesan, Elmira •	50*	Nakada, Stéphanie	75
Allan Wilson Centre, Massey University, E.Mohandesan@massey.ac.nz		University of Alberta, snakada@ualberta.ca	
Moles, Angela T. •	53*, 55	Napolitano, Marcelo	81 ^P
Victoria University of Wellington, angela.moles@vuw.ac.nz		Nascimento, Fabricia	85 ^P
Moller, Luciana M.	57	Nason, John D.	57
Macquarie University, luciana.moller@gse.mq.edu.au		Iowa State University, jnason@iastate.edu	
Monro, Keyne •	71*	Navarro, Nicolas	73
University of New South Wales, k.monro@student.unsw.edu.au		University of Manchester, nicolas.navarro@manchester.ac.uk	
Monson, Jessica A.	85 ^P	Naylor, Gavin J. •	69*
University of St. Thomas, jamonson@stthomas.edu		Florida State University, naylor@scs.fsu.edu	
Montgelard, Claudine	60	Near, Thomas J. •	69, 69*
University of Montpellier, France, claudine.montgelard@cefe.cnrs.fr		Yale University, thomas.near@yale.edu	
Montgomerie, Robert	49, 75, 75	Negro, Sandra S. •	87 ^P
Queen's University, montgome@biology.queensu.ca		University of Canterbury, sene23@student.canterbury.ac.nz	
Montgomery, Rebecca A. •	73*	Neill, Kate	51
University of Minnesota, rebeccam@umn.edu		NIWA, New Zealand, k.neill@niwa.co.nz	
Moers, Arne O. •	72*	Neiman, Maurine B. •	53, 76*, 82 ^P
Simon Fraser University, amooers@sfsu.ca		University of St. Thomas, mbneiman@stthomas.edu	
Moore, Jean-Sébastien •	67*	Nelson, Nicola J.	49
McGill University, jean-sebastien.moore@mail.mcgill.ca		Allan Wilson Centre, Victoria University of Wellington, nicola.nelson@vuw.ac.nz	
Moore, Jennifer A. •	49*, 78 ^P	Nelson, Wendy A.	51
Allan Wilson Centre, Victoria University of Wellington, jennifer.moore@vu.ac.nz		NIWA, New Zealand, w.nelson@niwa.co.nz	
Moran, Chris	84 ^P , 84 ^P , 85 ^P	Newbiggin, Edward J.	57
		University of Melbourne, edwardjn@unimelb.edu.au	
Moran, Nancy A.	49	Newcomb, Richard D. •	53, 58, 58*, 78 ^P
University of Arizona, nmoran@email.arizona.edu		HortResearch, New Zealand, r.newcomb@hortresearch.co.nz	
Morden, Clifford W.	55, 80 ^P	Newsome, Seth D.	67
University of Hawaii, Manoa, cmorden@hawaii.edu		Carnegie Geophysical Laboratory, snewsome@ciw.edu	
Morgan, Theodore J. •	60*	Newstrom-Lloyd, Linda •	59, 59, 81 ^P
Kansas State University, tjmorgan@ksu.edu		Landcare Research, New Zealand, newstroml@landcareresearch.co.nz	
Morgan-Richards, Mary •	56, 67*	Nicholson, Wayne L.	51
Allan Wilson Centre, Massey University, m.morgan-richards@massey.ac.nz		University of Florida, wln@ufl.edu	
Moriarty Lemmon, Emily C. •	58, 59, 60*	Nickel, Jennifer •	
University of Texas Austin, chorusfrog@mail.utexas.edu		University of Waikato, jen2@waikato.ac.nz	
Moritz, Craig	58, 60, 63, 68	Niehaus, Amanda •	
University of California, Berkeley, craigm@berkeley.edu		University of Queensland, a.niehaus@uq.edu.au	
Moriyama, Etsuko	74	Nielsen, Stuart V. •	88 ^P
University of Nebraska, Lincoln, emoriyama2@unlnotes.unl.edu		Villanova University, stuart.nielsen@villanova.edu	
Mortimer, Elizabeth •	48, 62*	Nikaido, Masato •	50*, 62, 74
Stellenbosch University, South Africa, liezlm@sun.ac.za		Tokyo Institute of Technology, mnikaido@bio.titech.ac.jp	
Moulds, Max	63	Nishida, Mutsumi	83 ^P
Australian Museum, msmoulds@bigpond.net.au		University of Tokyo, mnishida@ori.u-tokyo.ac.jp	
Moussalli, Adnan	63	Nishiguchi, Michele K.	48
Museum Victoria, amoussalli@museum.vic.gov.au		New Mexico State University, nish@nmsu.edu	

N

Nachman, Michael W.	83 ^P
University of Arizona, nachman@email.arizona.edu	
Naduvilezhath, Lisha •	82 ^P
Johann Wolfgang Goethe University, Germany, nlisha@hotmail.com	
Nagel, Laura •	75*, 75*, 78 ^P , 78 ^P
Queen's University, nagell@biology.queensu.ca	
Naish, Kerry •	65*
University of Washington, knaish@u.washington.edu	
Nakada, Stéphanie	75
University of Alberta, snakada@ualberta.ca	
Napolitano, Marcelo	81 ^P
Nascimento, Fabricia	85 ^P
Nason, John D.	57
Iowa State University, jnason@iastate.edu	
Navarro, Nicolas	73
University of Manchester, nicolas.navarro@manchester.ac.uk	
Naylor, Gavin J. •	69*
Florida State University, naylor@scs.fsu.edu	
Near, Thomas J. •	69, 69*
Yale University, thomas.near@yale.edu	
Negro, Sandra S. •	87 ^P
University of Canterbury, sene23@student.canterbury.ac.nz	
Neill, Kate	51
NIWA, New Zealand, k.neill@niwa.co.nz	
Neiman, Maurine B. •	53, 76*, 82 ^P
University of St. Thomas, mbneiman@stthomas.edu	
Nelson, Nicola J.	49
Allan Wilson Centre, Victoria University of Wellington, nicola.nelson@vuw.ac.nz	
Nelson, Wendy A.	51
NIWA, New Zealand, w.nelson@niwa.co.nz	
Newbiggin, Edward J.	57
University of Melbourne, edwardjn@unimelb.edu.au	
Newcomb, Richard D. •	53, 58, 58*, 78 ^P
HortResearch, New Zealand, r.newcomb@hortresearch.co.nz	
Newsome, Seth D.	67
Carnegie Geophysical Laboratory, snewsome@ciw.edu	
Newstrom-Lloyd, Linda •	59, 59, 81 ^P
Landcare Research, New Zealand, newstroml@landcareresearch.co.nz	
Nicholson, Wayne L.	51
University of Florida, wln@ufl.edu	
Nickel, Jennifer •	
University of Waikato, jen2@waikato.ac.nz	
Niehaus, Amanda •	
University of Queensland, a.niehaus@uq.edu.au	
Nielsen, Stuart V. •	88 ^P
Villanova University, stuart.nielsen@villanova.edu	
Nikaido, Masato •	50*, 62, 74
Tokyo Institute of Technology, mnikaido@bio.titech.ac.jp	
Nishida, Mutsumi	83 ^P
University of Tokyo, mnishida@ori.u-tokyo.ac.jp	
Nishiguchi, Michele K.	48
New Mexico State University, nish@nmsu.edu	
Nishihara, Hidenori •	71*, 83 ^P
Tokyo Institute of Technology, hnishiha@bio.titech.ac.jp	

Norbury, Grant	65
Landcare Research, New Zealand, norburgy@landcareresearch.co.nz	
Norris, Richard D.	71
Scripps Institution of Oceanography, rnorris@ucsd.edu	
Norris, Richard J.	56
Norrström, Niclas T. •	49*
University of Skövde, Sweden, niclas.norrstrom@his.se	
Nosil, Patrik •	49*
University of British Columbia, pnosil@zoology.ubc.ca	
Novak, Mark •	59*
University of Chicago, mnovak@uchicago.edu	
Novis, Philip M. •	73*
Landcare Research, New Zealand, novisp@landcareresearch.co.nz	
Nunez, B. Scott	74
University of Texas at Austin, nunez@utmsi.utexas.edu	
Nunn, Charles	71
Max Planck Institute for Evolutionary Anthropology, nunn@eva.mpg.de	
Nutt, Carol Horvitz •	
University of Miami, carolhorvitz@miami.edu	
Nutt, Karen J. •	51*
University of Waikato, kjnutt@waikato.ac.nz	

O

Ocampo, Paolo S.	60
O'Connor, Sarah-Jane •	
University of Canterbury, pylophie@gmail.com	
O'Connor, Timothy K.	61
University of Illinois	
O'Fallon, Brendan D. •	75*
University of Utah, brendanofallon@fastmail.fm	
Ohashi, Kazuharu •	78 ^P
University of Tsukuba, Japan, kohashi@ies.life.tsukuba.ac.jp	
Okada, Norihiro	48, 49, 49, 50, 51, 51, 62, 71, 74, 83 ^P
Tokyo Institute of Technology, nokada@bio.titech.ac.jp	
Okamoto, Tomoko	87 ^P
Kyoto University, Japan, okamoto@mocci.mbox.media.kyoto-u.ac.jp	
Oldroyd, Benjamin P.	63
University of Sydney	
Olejniczak, Paweł •	79 ^P
Polish Academy of Science, olejniczak@iop.krakow.pl	
Oliveira, Elisabeth S.	81 ^P
Oliver, Keith •	
Murdoch University, kroliver@bigpond.com	
Ollier, William E. R.	61, 67
University of Manchester	
Olmstead, Richard G. •	64*, 88 ^P
University of Washington, olmstead@u.washington.edu	
O'Loughlin, P Mark	86 ^P
Museum Victoria, pmo@bigpond.net.au	
Olson, Matthew S.	67, 72
University of Alaska, Fairbanks, matt.olson@uaf.edu	
O'Malley, Kathleen G. •	51*
Oregon State University, kathleen.omalley@oregonstate.edu	
Omena, Elianne	81 ^P
Omlund, Kevin E.	57
Onami, Junichi •	74*
Tokyo Institute of Technology, jonami@bio.titech.ac.jp	
O'Neill, Shay B. •	50*
Allan Wilson Centre, Victoria University of Wellington, oneillshay@student.vuw.ac.nz	
Oremus, Marc	59
University of Auckland, m.oremus@auckland.ac.nz	
Ortiz-Barrientos, Daniel •	76*
University of British Columbia, dacrau@gmail.com	
Osborn, Karen J. •	71*
MBARI, California, oska@mbari.org	
Osborne, Megan J. •	61*, 68
University of New Mexico, mosborne@unm.edu	
Osborne, Tamara •	80 ^P
University of the South Pacific, osborne.tamara@gmail.com	
O'Steen, Luke	51
College of Charleston, coolhandluke441@gmail.com	
Ostrow, Dejerianne G.	49
University of Florida	
Ottewell, Kym M. •	49*, 53
University of Adelaide, kym.ottewell@adelaide.edu.au	
Otto, Sarah P. •	59, 67*
University of British Columbia, otto@zoology.ubc.ca	
Ovcarenko, Irina	88 ^P
Klaipeda University, Lithuania, irinaovcarenko@yahoo.com	
Owens, Ian P. F.	49
i.owens@imperial.ac.uk	

P

Paabo, Svante	63
Max Planck Institute for Evolutionary Anthropology, paabo@eva.mpg.de	
Page, Roderic D. M. •	53*
University of Glasgow, r.page@bio.gla.ac.uk	
Pagel, Mark •	48*, 50
Reading University, m.pagel@rdg.ac.uk	
Pahlberg, Johan	84 ^P
University of Helsinki, Finland, johan.pahlberg@helsinki.fi	
Palmer, Michael E. •	53*
Stanford University, mepalmer@charles.stanford.edu	
Palumbi, Stephen R.	67
Stanford University, spalumbi@stanford.edu	
Pannell, John R. •	59*
University of Oxford, john.pannell@plants.ox.ac.uk	
Papst, Warwick	73
Latrobe University, w.papst@latrobe.edu.au	
Pardi, Fabio •	68*
EMBL - European Bioinformatics Institute, pardi@ebi.ac.uk	
Parham, James F.	68
California Academy of Sciences, jparham@calacademy.org	
Paris, Mathilde •	73*
Ecole Normale Supérieure Lyon, France, mparis@ens-lyon.fr	
Parker, Kevin	51
Massey University, k.parker@massey.ac.nz	
Parks, Natalie	63
Dalhousie University, nparks@dal.ca	
Pascal, Michel	65
INRA, France	
Passamonti, Marco •	82 ^P , 84 ^P , 84 ^P
University of Bologna, Italy, mpassa@alma.unibo.it	
Paterson, Adrian M. •	60, 61*, 71, 79 ^P
Lincoln University, Patersoa@lincoln.ac.nz	
Paterson, Steve	61, 67
University of Liverpool, stevep11@liverpool.ac.uk	
Patiny, Sébastien	64
Faculté Universitaire des Sciences Agronomiques de Gembloux, Belgium, patiny.s@fsagx.ac.be	
Paton, David C.	49
University of Adelaide, david.paton@adelaide.edu.au	
Patrick, Samantha C. •	49*
University of Oxford, samantha.patrick@zoo.ox.ac.uk	
Pavoine, Sandrine •	72*
Musée National d'Histoire Naturelle, France, pavoine@mnhn.fr	
Peacock, Bill •	
Allan Wilson Centre, Massey University, b.a.peacock@massey.ac.nz	
Péczely, Péter Gergely •	78 ^P
Szt.István University Gödöllő, Hungary, ppeczely@monornet.hu	
Penet, Laurent	86 ^P
University of Pittsburgh, lpp3@pitt.edu	
Pennock, Robert T. •	67*
Michigan State University, pennock5@msu.edu	
Penny, David •	48, 57*, 59, 69, 73, 75, 75
Allan Wilson Centre, Massey University, d.penny@massey.ac.nz	
Pepper, Mitzy •	54*
Australian National University, Mitzy.Pepper@anu.edu.au	
Pereira, Ricardo •	67*
University of California, Berkeley, ricardo@berkeley.edu	
Perez-Barrales, Rocío •	84 ^P , 84 ^P
University of Portsmouth, Rocío.Barrales@port.ac.uk	
Pérez-Buitrago, Nestor	78 ^P
Perez-Staples, Diana •	87 ^P
Macquarie University, dianuxperez@gmail.com	
Peronnet, Frédérique	73
Université Pierre et Marie Curie - CNRS, France, Frédérique.Peronnet@snv.jussieu.fr	
Perrie, Leon R. •	48*, 63, 88 ^P
Museum of New Zealand Te Papa Tongarewa, leonp@tepapa.govt.nz	
Perrin, Cécile •	64*
University of Wollongong, cecile_perrin@uow.edu.au	
Petfield, Donna •	49*
University of Queensland, d.petfield@sib.uq.edu.au	
Petrie, Marion	59
University of Newcastle	
Peucker, Amanda J. •	52*
Deakin University, amitc@deakin.edu.au	
Pfister, Luz-Andrea	51
Arizona State University, luchapfister@asu.edu	
Philips, Naomi	49
Phillips, Benjamin L. •	64*
University of Sydney, bphi4487@mail.usyd.edu.au	
Phillips, Craig B. •	62, 75*
AgResearch, New Zealand, craig.phillips@agresearch.co.nz	
Phillips, Matthew J.	54
Allan Wilson Centre, Massey University	

Pichler, Franz B.	80 ^P
University of Auckland, f.pichler@auckland.ac.nz	
Pickford, Martin	85 ^P
Pickup, Melinda •	63, 63*
CSIRO Plant Industry, Australia, melinda.pickup@csiro.au	
Pierson, Melanie J. •	48, 75*
Allan Wilson Centre, University of Canterbury, mjp110@gmail.com	
Piggott, Maxine	57
Macquarie University, mpiggott@bio.mq.edu.au	
Pilditch, Conrad	80 ^P
University of Waikato, conrad@waikato.ac.nz	
Pilkington, Stephen •	
International Pacific College, spilkington@ipc.ac.nz	
Pillay, Allan	60
Pillon, Yohan •	55*
IRD Noumea; University of New Caledonia, pillon@noumea.ird.nc	
Pinsky, Malin L. •	67*
Stanford University, mpinsky@stanford.edu	
Pinto, Joao	85 ^P
Piquot, Yves	53
University Lille, France, yves.piquot@univ-lille1.fr	
Piripi, Morore M. •	80 ^P
Allan Wilson Centre, Massey University, m.m.piripi@massey.ac.nz	
Piskurek, Oliver •	48*
Tokyo Institute of Technology, piskurek@bio.titech.ac.jp	
Podos, Jeffrey	61
University of Massachusetts, jpodos@bio.umass.edu	
Poladian, Leon	71
University of Sydney	
Pollard, Katherine S.	70
University of California, Davis, kspollard@ucdavis.edu	
Ponce, Carlos •	
Harvard Medical School, crponce@gmail.com	
Ponder, Winston	69
Australian Museum, wponder@bigpond.net.au	
Ponniah, Mark	54, 54
Griffith University	
Pontin, David R.	88 ^P
Lincoln University, pontind2@lincoln.ac.nz	
Poole, Ant	58
Stockholm University, ant@molbio.su.se	
Poore, A. G. B.	71
University of New South Wales, a.poore@unsw.edu.au	
Porteiro, Filipe M.	54
University of the Azores, filipe@notes.horta.uac.pt	
Porter, Adam H. •	53*
University of Massachusetts, Amherst, aporter@ent.umass.edu	
Postma, Erik •	53*
University of New South Wales, e.postma@unsw.edu.au	
Postol, Jessica •	
Stony Brook University, jgurvitch@life.bio.sunysb.edu	
Poulin, Robert •	55, 57, 59
University of Otago, robert.poulin@stonebow.otago.ac.nz	
Powell, George V. N.	62
Conservation Science Program, WWF, USA, george.powell@wwfus.org	
Pratt, Renae C. •	56*
Allan Wilson Centre, Massey University, r.c.pratt@massey.ac.nz	
Preston, Brian	71
Max Planck Institute for Evolutionary Anthropology, brian.preston@eva.mpg.de	
Price, Benjamin W. •	52*
Rhodes University, South Africa, ben.wills.price@gmail.com	
Price, Luke •	
University of Adelaide, luke.price@adelaide.edu.au	
Price, Trevor •	66*
University of Chicago, pricet@uchicago.edu	
Primmer, Craig R.	59, 67, 81 ^P
University of Turku, Finland, craig.primmer@utu.fi	
Pritchard, Victoria L. •	67*, 82 ^P
University of Southern California, vpritcha@usc.edu	
Prokupek, Adrienne M. •	74*, 82 ^P
University of Nebraska, Lincoln, aprokupek1@bigred.unl.edu	
Proulx, Stephen	75
Iowa State University, proulx@iastate.edu	
Prum, Richard O.	62
Yale University, richard.prum@yale.edu	
Pufal, Gesine •	
Victoria University of Wellington, gesine.pufal@vuw.ac.nz	
Puniamoorthy, Nalini •	67*
National University of Singapore, sepsids@gmail.com	

Q

Queiroz, Luciano P.	81 ^P
Quinn, Alexander E. •	65*
University of Canberra, quinn@aerg.canberra.edu.au	

Quinn, Chris	63
Royal Botanic Gardens, Sydney, Chris.Quinn@rbgsyd.nsw.gov.au	
Quinn, John	49
University of Oxford, john.quinn@zoo.ox.ac.uk	
Quinn, Thomas P.	55, 65
University of Washington, tquinn@u.washington.edu	

R

Radder, Rajkumar S. •	83 ^P
University of Sydney, raju@mail.usyd.edu.au	
Radhakrishnan, Preethi •	57*
Macquarie University, preethi@galliform.bhs.mq.edu.au	
Ragan, Mark A.	65
University of Queensland, m.ragan@imb.uq.edu.au	
Rainey, Paul B. •	51, 51, 68*, 82 ^P , 82 ^P
University of Auckland, p.rainey@auckland.ac.nz	
Rakotondraparany, Felix	66
University of Antananarivo, Madagascar, feltenrec@yahoo.fr	
Ramon, Marina L.	52
University of California, Santa Cruz, ramon@biology.ucsc.edu	
Ramsey, Michael •	54, 59*
University of New England, mramsey@une.edu.au	
Ramstad, Kristina M. •	51*, 78 ^P
Allan Wilson Centre, Victoria University of Wellington, kristina.ramstad@vuw.ac.nz	
Randi, Ettore	85 ^P
Ranjard, Louis M. J. •	51*
University of Auckland, l.ranjard@auckland.ac.nz	
Ranwez, Sylvie	55
Ecole des mines d'Ales, France, Sylvie.Ranwez@ema.fr	
Ranwez, Vincent •	52, 55*
Université Montpellier 2, France, ranwez@isem.univ-montp2.fr	
Rastorguev, Sergey M.	86 ^P
VNIRO, Russia, rastorgueff@gmail.com	
Raubenheimer, David	53
Rawson, Paul D.	70
University of Maine	
Read, Andrew	49
University of Edinburgh	
Reardon, James	65
Department of Conservation, New Zealand, jreardon@doc.govt.nz	
Redding, David W.	72
Simon Fraser University, dredding@sfu.ca	
Redfield, Rosemary J.	70
University of British Columbia, redfield@zoology.ubc.ca	
Ree, Richard •	61*
Field Museum of Natural History, mree@fieldmuseum.org	
Reece, Sarah	49
University of Edinburgh	
Reed, David L.	81 ^P
University of Florida, dred@flmnh.ufl.edu	
Refardt, Dominik •	51*
University of Auckland, dominik.refardt@gmail.com	
Refsnider, Jeanine M.	78 ^P
Victoria University of Wellington, refsnij@umn.edu	
Ren, Xiaoyun •	73*
University College London, x.ren@ucl.ac.uk	
Renaud, Jean-Paul	73
Renner, Matt A. M. •	60*
University of Sydney, matt.renner@bio.usyd.edu.au	
Reno, Michael L.	79 ^P
Florida State University, mlr03c@fsu.edu	
Renous, Sabine	78 ^P
Muséum National d'Histoire Naturelle, France, renous@mnhn.fr	
Rest, Joshua S.	83 ^P
University of Chicago, jrest@uchicago.edu	
Reuter, Max	65
University College London, m.reuter@ucl.ac.uk	
Revell, Liam J. •	49*
Harvard University, lrevell@fas.harvard.edu	
Reyes, Josephine F. •	56*
University of New South Wales, j.reyes@student.unsw.edu.au	
Reynolds, R Graham	87 ^P
University of Tennessee, rgraham@utk.edu	
Rhodes, John A. •	57*
University of Alaska, j.rhodes@uaf.edu	
Ricci, Andrea	84 ^P , 84 ^P
University of Bologna, and.ricci@gmail.com	
Richards, Corinne L. •	73*, 80 ^P
University of Michigan, clrichar@umich.edu	
Ridley, Caroline E. •	83 ^P
University of California, Riverside, caroline.ridley@email.ucr.edu	
Riginos, Cynthia •	70*
University of Queensland, c.riginos@uq.edu.au	
Roux Paquette, Sebastien •	65*
Université de Montréal, sebastien.rioux.paquette@umontreal.ca	

Ripa, Jörgen •	73*
Lund University, Sweden, jorgen.ripa@teorekol.lu.se	
Risch, Patrick W. •	78 ^P
University of Oklahoma, risch@ou.edu	
Ritchie, Peter A. •	48, 50, 50, 56, 60, 61, 88 ^P
Victoria University of Wellington, Peter.Ritchie@vuw.ac.nz	
Roberts, David G. •	53*
University of Wollongong, dgr042@uow.edu.au	
Roberts, J. Dale	57, 64
University of Western Australia, droberts@cyllene.uwa.edu.au	
Roberts, John •	
University of Western Australia, droberts@cyllene.uwa.edu.au	
Robertson, Alastair W. •	54*
Massey University, A.W.Robertson@massey.ac.nz	
Robertson, Bruce C. •	63*, 80 ^P , 87 ^P
University of Canterbury, bruce.robertson@canterbury.ac.nz	
Robertson, K. M.	65
Robins, Judith •	54*, 75, 79 ^P
Allan Wilson Centre, University of Auckland, j.robins@auckland.ac.nz	
Robinson, John	71
University of Sydney, johnr@maths.usyd.edu.au	
Robinson, Sharon A.	53
University of Wollongong, sharonr@uow.edu.au	
Robinson, Terry J.	56
Stellenbosch University, South Africa, tjr@sun.ac.za	
Robson, Simon K. •	61*
James Cook University, Simon.Robson@jcu.edu.au	
Rocha, Pedro L. B. (see Bernardo da Rocha, Pedro Luis)	
Rockman, Matthew •	56*
Princeton University, mrockman@princeton.edu	
Roderick, George K.	50
University of California, Berkeley, roderick@berkeley.edu	
Rodrigo, Allen G. •	57, 71*, 72
Allan Wilson Centre, University of Auckland, a.rodrigo@auckland.ac.nz	
Roff, Derek A.	67
University of British Columbia, derek.roff@ucr.edu	
Roff, Derek	61
University of California, Riverside	
Rogers, Sean M.	49
University of British Columbia, srogers@zoology.ubc.ca	
Roque, Nadia	81 ^P
Universidade Federal da Bahia, Brazil, nroque@ufba.br	
Rosa, Vivian L.	81 ^P
Rosas Rodríguez, Keysa G. •	78 ^P
University of Puerto Rico, keysa.rosas@gmail.com	
Rosauer, Daniel F. •	74*
CSIRO, Australia, dan.rosauer@csiro.au	
Rose, Caroline J. •	78 ^P
University of Auckland, cros034@ec.auckland.ac.nz	
Rosell, R. C.	85 ^P
University of St. Thomas	
Rosenberg, Michael S. •	51*, 81 ^P
Arizona State University, msr@asu.edu	
Rosenberg, Noah A.	59
University of Michigan, rnoah@umich.edu	
Rosenbloom, Jeff	49
Rosengrave, Patrice C. •	49, 51*
University of Canterbury, pci11@student.canterbury.ac.nz	
Rosenthal, David M. •	53*
Portland State University, drosen@pdx.edu	
Rosetto, Maurizio	75
Royal Botanic Gardens Sydney, maurizio.rossetto@rbgsyd.nsw.gov.au	
Ross, Howard A. •	51, 53*, 59, 78 ^P , 79 ^P
University of Auckland, h.ross@auckland.ac.nz	
Ross, Philip •	80 ^P
University of Waikato, philrossnz@gmail.com	
Roth, V. Louise	71
Duke University, vroth@duke.edu	
Rouse, Greg W.	53
Scripps Institution of Oceanography, grouse@ucsd.edu	
Rousset, Francois	53
University of Montpellier, France, rousset@isem.univ-montp2.fr	
Rovito, Sean M. •	50*
University of California, Berkeley, smrovito@berkeley.edu	
Rowe, Diane L. •	56, 57*
University of Otago, gegerowe@yahoo.com	
Rowe, Kevin C. •	60*, 79 ^P
Southern Cross University; University of California, Berkeley, kevin.rowe@scu.edu.au	
Rowell, David M.	48, 60, 63
Australian National University, David.Rowell@anu.edu.au	
Rubin, Matthew J. •	85 ^P
University of Wisconsin, Oshkosh, rubinm40@uwosh.edu	
Rundell, Rebecca J. •	52*
University of Chicago, rundell@uchicago.edu	
Rundle, Howard •	57*, 59
University of Ottawa, hrundle@uottawa.ca	
Ruse, Michael •	75*
Florida State University, mruse@mailer.fsu.edu	
Rush, Rebecca	75
University of New South Wales, b.rush@unsw.edu.au	
Russell, Kirsty G.	80 ^P
University of Auckland, kg.russell@auckland.ac.nz	
Rutstein, Alison N.	59
University of New South Wales, a.rutstein@unsw.edu.au	
Ryder, Oliver	84 ^P
Ryen, Christopher A. •	69*, 83 ^P
James Cook University, christopher.ryen@jcu.edu.au	

S

Sadlier, Ross A.	50
Australian Museum, rosss@austmus.gov.au	
Saetre, Gleen-Peter	67
Saint, Kathleen M.	71
South Australian Museum, saint.kathy@saugov.sa.gov.au	
Sakai, Satoki	78 ^P
Tohoku University, Japan, sakai@mail.tains.tohoku.ac.jp	
Salamin, Nicolas •	48, 69*
University of Lausanne, Switzerland, nicolas.salamin@unil.ch	
Salomon, Matthew P. •	49*
University of Florida, msalomon@zoo.ufl.edu	
Salzman, Yael •	84 ^P
HortResearch, New Zealand, ysalzman@hortresearch.co.nz	
Samadi, Sarah	65
IRD, France	
Sanchez-Munoz, Juan A. •	66*, 87 ^P , 88 ^P
Universidad de los Andes, Colombia, juansanc@uniandes.edu.co	
Sandve, Simen R.	81 ^P
ssandve@gmail.com	
Sankarasubramanian, Subashchandran •	
Allan Wilson Centre, Massey University, S.Sankarasubramanian@massey.ac.nz	
Sano, Paulo T.	81 ^P
Santolamazza, Federica	85 ^P
Santos, Jose W. (see dos Santos, Jose W.)	
Santos, Ricardo S.	54
University of the Azores, ricardo@notes.horta.uac.pt	
Sanyal, Anushree	71
University of Texas, anushree@mail.utexas.edu	
Saranathan, Vinodkumar •	
Yale University, vinodkumar.saranathan@yale.edu	
Saranathan, Vinodkumar	62*
Yale University, vinodkumar.saranathan@yale.edu	
Sarre, Stephen D.	65
University of Canberra, Stephen.Sarre@canberra.edu.au	
Sauer, Jan •	72*
University of Hamburg, Ja_Sa@web.de	
Saunders, Nigel J.	60
Sauquet, Hervé •	69*
Royal Botanic Gardens, Kew, herve.sauquet@gmail.com	
Savolainen, Outi •	73*
University of Oulu, Finland, outi.savolainen@oulu.fi	
Savolainen, Riitta	85 ^P , 88 ^P
University of Helsinki, riitta.savolainen@helsinki.fi	
Savolainen, Vincent •	69, 74*
Royal Botanic Gardens Kew, v.savolainen@kew.org	
Scales, Jeffrey A. •	73*
University of Hawaii, jscales@hawaii.edu	
Scali, Valerio	82 ^P , 84 ^P
University of Bologna, Italy, valerio.scali@unibo.it	
Schall, Joseph J.	81 ^P
University of Vermont, jschall@uvm.edu	
Scheiner, Samuel M. •	73*
National Science Foundation, United States, sscheine@nsf.gov	
Schemske, Douglas W.	63
Michigan State University, schem@msu.edu	
Schiel, D.	55
University of Canterbury	
Schirtzinger, Erin E. •	84 ^P
New Mexico State University, eesem@nmsu.edu	
Schliep, Klaus P. •	59*
Allan Wilson Centre, Massey University, k.p.schliep@massey.ac.nz	
Schlotfeldt, Beth E. •	75*
Flinders University, beth.schlotfeldt@flinders.edu.au	
Schlüns, Helge •	58*
James Cook University, helge.schlüns@jcu.edu.au	
Schlüter, Dolphe •	49, 61, 69, 71, 80 ^P
University of British Columbia, schluter@zoology.ubc.ca	
Schmidt, Daniel J. •	54, 65*
Griffith University, d.schmidt@griffith.edu.au	
Schmitz, Juergen	52, 64
University of Muenster, Germany, jueschm@uni-muenster.de	

Schnabel, Karen E. •	64*	
NIWA, New Zealand; University of Otago, schnabel@tangaroa.niwa.co.nz		
Schneider, Dominique	51	
Université Joseph Fourier, France		
Schneider, Harald •	71*	
Natural History Museum, UK, h.schneider@nhm.ac.uk		
Schoen, Daniel J. •	54*	
McGill University, Daniel.Schoen@mcgill.ca		
Schoenfeld, Barbara I. K. •		
Allan Wilson Centre, Massey University, merianch@web.de		
Scholes, Edwin •	71*	
American Museum of Natural History, escholes@amnh.org		
Schoville, Sean D. •	50*	
University of California, Berkeley, schoville@berkeley.edu		
Schubert, Michael	73	
Ecole Normale Supérieure, France		
Schug, Malcolm D. •	87 ^P	
University of North Carolina Greensboro, mdschug@uncg.edu		
Schulte, Patricia M.	80 ^P	
University of British Columbia, pschulte@zoology.ubc.ca		
Schultz, Jennifer K. •	59*	
University of Hawaii, jschultz@hawaii.edu		
Schultz, Mark B. •	52*, 88 ^P	
Charles Darwin University, mark.schultz@cdu.edu.au		
Schwartz, Tonia •		
University of Wollongong, toniasch@uow.edu.au		
Schwarzkopf, Lin	75, 78 ^P	
James Cook University, Lin.Schwarzkopf@jcu.edu.au		
Sciligo, Amber R. •	59*	
Lincoln University, sciligoa@lincoln.ac.nz		
Scobell, Summer A. •	61*	
University of Miami, summer_scobell@hotmail.com		
Scofield, Douglas G. •	63*	
Indiana University, dgscofie@indiana.edu		
Scribner, Kim T.	58	
Michigan State University, scribne3@msu.edu		
Seamons, Todd	65	
University of Washington, seamonst@u.washington.edu		
Seaton, Dale •		
Elsevier Publishers, d.seaton@elsevier.com		
Seddon, Jennifer M. •	81 ^P	
University of Queensland, j.seddon1@uq.edu.au		
Seddon, Philip J.	61	
University of Otago, philip.seddon@stonebow.otago.ac.nz		
Semple, Charles •	65, 69*	
University of Canterbury, c.semple@math.canterbury.ac.nz		
Sgro, Carla M. •	49, 86 ^P	
Monash University, carla.sgro@sci.monash.edu.au		
Shao, Renfu •	50*, 65	
University of Queensland, r.shao@uq.edu.au		
Sharma, K. K.	68	
Indian Lac Research Institute, Namkum, Ranchi, India		
Shatters, R. G.	85 ^P	
USDA/ARS, Ft. Pierce, Florida		
Shavit, Liat •	69*	
Allan Wilson Centre, Massey University, l.shavit@massey.ac.nz		
Shaw, Matthew D.	60	
Queensland Museum, Australia, matthew.shaw@qm.qld.gov.au		
Sheldon, Ben C.	49, 49	
University of Oxford, ben.sheldon@zoo.ox.ac.uk		
Shepherd, Lara D. •	48, 63*, 75	
Museum of New Zealand Te Papa Tongarewa, lara.shepherd@vuw.ac.nz		
Sherborne, Amy L. •	61*, 67	
University of Liverpool, a.sherborne@liv.ac.uk		
Sherman, Craig D. H. •	67*	
University of Wollongong, csherman@uow.edu.au		
Sherwin, William B. •	75*	
University of New South Wales, W.Sherwin@unsw.edu.au		
Shi, Haitao	68	
Hainan Normal University, China, haitao-shi@263.net		
Shimodaira, Hidetoshi	60	
Tokyo Institute of Technology, shimo@is.titech.ac.jp		
Shine, Richard	51, 65, 67, 83 ^P , 85 ^P	
University of Sydney, rics@bio.usyd.edu.au		
Shoo, Luke P.	50	
Museum Victoria, luke.shoo@jcu.edu.au		
Shuker, David M. •	71*	
University of Edinburgh, david.shuker@ed.ac.uk		
Sicard, Delphine	53	
UMR de Génétique végétale INRA-UPS-CNRS-INAPG, France, sicard@moulon.inra.fr		
Siepel, Adam C.	70, 84 ^P	
Cornell University, acs4@cornell.edu		
Silberbauer, Tish	49	
Macquarie University		
Silva, Sueli A. H.	81 ^P	
Silveira, Nusa A.	81 ^P	
Silverman, Michael S.	60	
Simard, Frederic		85 ^P
Simmons, Leigh W. •	49, 49, 57	
University of Western Australia, lsimmons@cyllene.uwa.edu.au		
Simon, Christine •	52, 63*	
University of Connecticut; Victoria University of Wellington, chris.simon@uconn.edu		
Simond, Denbigh		85 ^P
Simonsohn, Tatum •		
University of Utah, tatussimonsohn2@yahoo.com		
Simpson, Stephen J.	53	
Singh, Sunil •	88 ^P	
University of the South Pacific, s11000363@student.usp.ac.fj		
Sinn, David L.	61	
University of Tasmania, david.sinn@utas.edu.au		
Sirey, Tamara M. •	53*	
University of Auckland, tsirey@gmail.com		
Sirvid, Phil		79 ^P
Museum of New Zealand Te Papa Tongarewa, PhilS@tepapa.govt.nz		
Sisson, Scott A.	51	
University of New South Wales, scott@maths.unsw.edu.au		
Sistrom, Mark J. •	86 ^P	
Macquarie University, msistrom@bio.mq.edu.au		
Skroblin, Anja •		
Australian National University, anja.skroblin@anu.edu.au		
Slatkin, Montgomery	67	
University of California, Berkeley, slatkin@berkeley.edu		
Sloan, Daniel B.	72	
University of Virginia, dbs4a@virginia.edu		
Smissen, Rob D. •	65, 74, 74, 74*, 87 ^P	
Landcare Research, New Zealand, smissenr@landcareresearch.co.nz		
Smit, Hanneline A. •	56*	
Stellenbosch University, South Africa, hanneline@sun.ac.za		
Smith, James •	80 ^P	
University of Otago, james.smith@otago.ac.nz		
Smith, Katie L. •	50*	
University of Melbourne; Museum Victoria, k.smith9@pgrad.unimelb.edu.au		
Smith, Peter J.	64	
p.smith@niwa.co.nz		
Smith, Phillip R. •	65*	
Massey University, p.r.smith@massey.ac.nz		
Smith, Sarah A. •	52, 88 ^P	
Charles Darwin University, sarah.smith@cdu.edu.au		
Smith, Shannon	49	
Macquarie University		
Smith, Stephen	61	
Yale University, stephen.smith@yale.edu		
Smith, Thomas B.	63	
University of California, Los Angeles, tbsmith@ucla.edu		
Smith, Wendy A.	73	
Northeastern University, W.Smith@neu.edu		
Smolensky, Nicole •	61*	
Texas A&M University, nsmo@tamu.edu		
Sofaer, Helen R.	53	
Colorado State University, helen@lamar.colostate.edu		
Sol, Daniel •	66*	
Ctr. Ecological Research & Appl. Forestries, Spain, d.sol@creaf.uab.es		
Solberg, Owen		84 ^P
University of California, Berkeley		
Solomon, Scott E. •	52*	
University of Texas at Austin, sesolomo@gmail.com		
Soltis, Douglas E.	53, 63	
University of Florida, dsoltis@botany.ufl.edu		
Soltis, Kerry A.	63	
University of Florida, kerry1@ufl.edu		
Soltis, Pamela S.	53, 63	
Florida Museum of Natural History, psoltis@flmnh.ufl.edu		
Somel, Mehmet	63	
Max Planck Institute for Evolutionary Anthropology, somel@eva.mpg.de		
Sonsthagen, Sarah A. •	58*	
Smithsonian Institution, sonsthagens@si.edu		
Sorenson, Michael D.	83 ^P	
Boston University, msoren@bu.edu		
Sota, Teiji		87 ^P
Kyoto University, Japan, sota@terra.zool.kyoto-u.ac.jp		
South, Sandra H. •	87 ^P	
Uppsala University, Sweden, sandra.south@ebc.uu.se		
Souza, Ângela F. L.	81 ^P	
Sowell, Dexter R.	53	
University of Virginia, ds5tz@virginia.edu		
Spaan, Pieter •	65*	
Eawag, Switzerland, spaak@eawag.ch		
Speight, Natasha		79 ^P
University of Adelaide, natasha.speight@student.adelaide.edu.au		
Spencer, Hamish G. •	49, 66*, 67, 67, 71, 73, 82 ^P , 86 ^P	
Allan Wilson Centre, University of Otago, h.spencer@otago.ac.nz		

Spoetter, Andreas	85 ^P	Superina, Mariella	64
Spor, Aymé •	53*	University of New Orleans, superina@gmx.ch	
UMR de génétique végétale INRA-UPS-CNRS-AgroParisTech, France, spor@moulon.inra.fr		Surget-Groba, Yann •	51*, 66*, 70
St. John, Katherine	65	University of Wales, Bangor, y.surget-groba@bangor.ac.uk	
City University, New York, stjohn@lehman.cuny.edu		Suurmeyer, Ellen O. •	79 ^P
Staedler, Thomas •	74*	University of Arizona, eosuurme@email.arizona.edu	
University of Munich, Germany, staedler@zi.biologie.uni-muenchen.de		Svanbäck, Richard •	69*, 73
Stanger-Hall, Kathrin	59	Uppsala University, Sweden, richard.svanback@ebc.uu.se	
University of Georgia, ksh@uga.edu		Sved, John	55
Star, Bastiaan •	67*	University of Sydney	
Allan Wilson Centre, University of Otago, bastiaanstar@hotmail.com		Svensson, Erik I.	51
Steane, Dorothy A.	79 ^P	Lund University, Sweden, Erik.svensson@zooekol.lu.se	
Steel, Mike •	53, 57, 67, 71, 72, 72*, 75	Swift, Helen •	69
Allan Wilson Centre, University of Canterbury, m.steel@math.canterbury.ac.nz		Epsom Girls Grammar, New Zealand, sf@eggs.school.nz	
Steets, Janette A.	57	Swofford, David L.	69
Steeves, Tammy E. •	65*	Florida State University, swofford@scs.fsu.edu	
University of Canterbury, tammy.steeves@canterbury.ac.nz		Symonds, V. Vaughan •	53*
Stefanni, Sergio •	54*	Allan Wilson Centre, Massey University, v.v.symonds@massey.ac.nz	
University of the Azores, sstefanni@notes.horta.uac.pt		Szoke, Zsuzsanna	78 ^P
Steiner, Bret M.	60	Animal Breeding Institute, Herceghalom, Hungary	
U.S. Centers for Disease Control and Prevention, bms2@cdc.gov			
Stenøien, Hans K. •	84 ^P		
Norwegian University of Science and Technology, stenoien@bio.ntnu.no			
Stephan, Wolfgang	74, 87 ^P		
University of Munich, Germany, stephan@zi.biologie.uni-muenchen.de			
Stephens, Patrick R. •	71*	T	
University of California, Santa Barbara, stephens@nceas.ucsb.edu			
Steppan, Scott J.	79 ^P	Taffel, Jon	58
Florida State University, steppan@bio.fsu.edu		Boston University, jttaffel@gmail.com	
Stevens, Mark I. •	67*	Taiti, Stefano	71
Allan Wilson Centre, Massey University, m.i.stevens@massey.ac.nz		Istituto per lo Studio degli Ecosistemi, Italy, stefano.taiti@ise.cnr.it	
Stewart, Donald T.	84 ^P	Takami, Yasuoki •	87 ^P
Acadia University, don.stewart@acadiau.ca		Kyoto University, Japan, yasuoki.takami@gmail.com	
Stinchcombe, John R. •	60*	Takashi, Kageyama	55
University of Toronto, stinchcombe@eeb.utoronto.ca		Primate Research Institute, Japan	
Stireman, John O., III	57	Takemori, Nobu	78 ^P
Wright State University, john.stireman@wright.edu		Talbot, Sandy L.	58
Stöckler, Karen	73	US Geological Survey, sandy_talbot@usgs.gov	
Allan Wilson Centre, Massey University		Tanaka, Mark M. •	51*, 56
Stockley, Paula	61, 67	University of New South Wales, m.tanaka@unsw.edu.au	
University of Liverpool, p.stockley@liv.ac.uk		Tank, David C.	64
Stoffels, Richard •	49*	Yale University, david.tank@yale.edu	
Allan Wilson Centre, University of Otago, rick.stoffels@stonebow.otago.ac.nz		Taskinen, Jouni	61
Stone, Anne C.	51	University of Joensuu, Finland, jotaskin@joensuu.fi	
Stone, Mikhail •		Taskova, Rilka M. •	52*
mikhail@ihug.co.nz		Victoria University of Wellington, rilka.taskova-stamenova@vuw.ac.nz	
Storey, Alice	75	Tatarinic, Nikolai J. •	67*
Allan Wilson Centre, University of Auckland, afiistorey@yahoo.ca		University of Sydney, niktatarnic@yahoo.com	
Storlind, Lena	73	Tate, Jennifer A. •	63*
Lund University, Sweden		Allan Wilson Centre, Massey University, j.tate@massey.ac.nz	
Stow, Adam	49	Tay, Mei Lin •	56*
Macquarie University, astow@bio.mq.edu.au		Victoria University of Wellington, meilin.tay@gmail.com	
Strobeck, Curtis	73	Taylor, Douglas R. •	53, 53, 72*
University of Alberta, curtis.strobeck@ualberta.ca		University of Virginia, dougtaylor@virginia.edu	
Stuart, Bryan L.	68	Taylor, Graeme A.	55
The Field Museum, bstuart@fielddmuseum.org		Department of Conservation, New Zealand, gtaylor@doc.govt.nz	
Stuart-Fox, Devi •	63*	Taylor, John	72
University of Melbourne, devis@unimelb.edu.au		University of Auckland, ja.taylor@auckland.ac.nz	
Sturrock, Hugh •		Taylor, Peter	51
University of Otago, hughsturrock@hotmail.com		Queen's University, taylorp@post.queensu.ca	
Suarez, Andrew V. •	66*	Taylor, Phillip W.	57, 87 ^P
University of Illinois, avsuarez@life.uiuc.edu		Macquarie University, phil@galliform.bhs.mq.edu.au	
Subramanian, Sankar	74*	Taylor, Sabrina S.	61
Suchard, Marc A.	59	University of Otago, sabrina.taylor@stonebow.otago.ac.nz	
University of California, Los Angeles, msuchard@ucla.edu		Terai, Yohei •	51, 51*
Suckling, David Max	59	Tokyo Institute of Technology, terai.y.aa@m.titech.ac.jp	
HortResearch, New Zealand, msuckling@hortresearch.co.nz		Theisen, Katherine •	82 ^P
Sullivan, John •		University of St. Thomas, kmtheisen@stthomas.edu	
University of Idaho, jacks@uidaho.edu		Thom, Michael D. •	61, 67*
Sullivan, Jon J. •	55*, 59	University of Liverpool, mthom@liv.ac.uk	
Lincoln University, sullivanj@lincoln.ac.nz		Thomas, Gavin H. •	63*
Sumner, Jeremy •	71*	Imperial College, London, g.thomas@imperial.ac.uk	
University of Sydney, jsumner@it.usyd.edu.au		Thomas, Jessica A. •	70*
Sumner, Joanna •	67*	University of Sussex, Australian National University, jessica.thomas@anu.edu.au	
Australian National University; Museum Victoria, joanna.sumner@anu.edu.au		Thomas, Melissa L. •	49*
Suni, Sevan S. •	57*	University of Western Australia, mlthomas@cylene.uwa.edu.au	
Stanford University, sssuni@stanford.edu		Thompson, Graham J. •	63*
Sunnucks, Paul •	48*, 60	University of Sydney, gthompson@usyd.edu.au	
Monash University, paul.sunnucks@sci.monash.edu.au		Thompson, James N., Jr •	78 ^P
		University of Oklahoma, jthompson@ou.edu	
		Thompson, John •	
		University of California, Santa Cruz, thompson@biology.ucsc.edu	
		Thomson, Glenys	84 ^P
		University of California, Berkeley	
		Thomson, James D.	78 ^P
		University of Toronto, jthomson@zoo.utoronto.ca	
		Thornton, Joseph W.	74
		University of Oregon, joet@uoregon.edu	

Thorpe, Roger S. University of Wales, Bangor, r.s.thorpe@bangor.ac.uk	51, 70
Thrall, Peter H. CSIRO, Australia	63, 69
Tibbets, Ian R. University of Queensland, i.tibbets@uq.edu.au	73
Tidon, Rosana	81 ^P
Tilak, Marie-ka Université Montpellier 2, France, marika@isem.univ-montp2.fr	55
Tinghitella, Robin M. University of California, Riverside, rting001@student.ucr.edu	63
Titov, Sergey State Research Institute on Lake and River Fisheries, Russia, titov@admiral.ru	59, 81 ^P
Toju, Hirokazu • Kyushu University, hiro.toju@gmail.com	79 ^P
Tonteri, Anni • University of Turku, Finland, anni.tonteri@utu.fi	59*, 81 ^P
Toon, Alicia • Brigham Young University, a_toon@byu.edu	58*
Toonen, Robert J. University of Hawaii, toonen@hawaii.edu	51, 59
Torre, Alessandra della	85 ^P
Toups, Melissa A. • University of Florida, meltoups@ufl.edu	81 ^P
Townley, Stuart University of Exeter, s.b.townley@ex.ac.uk	55
Townsend, Sheena • University of Otago, sheenatown@gmail.com	
Tracy, Lisa University of Otago, trali964@student.otago.ac.nz	61
Tran, Carol T. • University of Hawaii, Manoa, tranc@hawaii.edu	80 ^P
Treier, U. A.	86 ^P
Treml, Eric A. University of Queensland, eat4@duke.edu	58
Trewick, Steve A. • Allan Wilson Centre, Massey University, s.trewick@massey.ac.nz	56, 61, 67, 71*, 73, 79 ^P
Trinaglia, Michael D. Florida Fish and Wildlife Conservation Commission, mike.trinaglia@myfwc.com	87 ^P
Trotter, Meredith • Allan Wilson Centre, University of Otago, mer.trotter@gmail.com	67*
Tsang, Ling Ming • Chinese University of Hong Kong, kiryu-sky@i-urban.com.hk	71*
Tschirren, Barbara University of New South Wales, barbara.tschirren@unsw.edu.au	59
Tsuda, Tomi T. Tokushima Bunri University, Japan	62
Tsutsui, Neil University of California, Irvine, ntsutsui@uci.edu	66
Tuinier, Marcel van University of North Carolina, Wilmington, vantuinier@uncw.edu	67
Tuljapurkar, Shripad Stanford University, tulja@stanford.edu	63
Turelli, Michael University of California, Davis, mturelli@ucdavis.edu	73
Turnau, Katarzyna Jagiellonian University, Krakow, Poland	79 ^P
Turnbull, Christine Macquarie University	49
Turner, Thomas F. • University of New Mexico, turnert@unm.edu	61, 61, 68*

U

Ujvari, Beata • University of Wollongong, beatau@uow.edu.au	57*
Uller, Tobias • University of Wollongong, ller@uow.edu.au	

V

Väinölä, Risto University of Helsinki, risto.vainola@helsinki.fi	55, 64, 84 ^P , 88 ^P
Vallabh, Pankaj • PBK Enterprises, India, pvalabh@yahoo.com	63*, 82 ^P , 82 ^P
Vamosi, Jana C.	57
Van Cleve, Jeremy • Stanford University, vancleve@stanford.edu	75*
van Doorn, G. Sander • Santa Fe Institute, vandoorn@santafe.edu	76*

van Heerwaarden, Belinda •	49*, 86 ^P
University of Melbourne, b.vanheerwaarden@pgrad.unimelb.edu.au	
van Vuuren, Bettine (see Jansen van Vuuren, Bettine)	
Vanderpool, Dan University of Connecticut, cicadettini@yahoo.com	63
Vanzela, André L. L.	81 ^P
Vargas Jentzsch, Iris M. •	65*, 82 ^P
University of Canterbury, imj15@student.canterbury.ac.nz	
Vargas, P.	86 ^P
Vashishtha, Amit • University of Delhi, vashishtha24@gmail.com	68*
Vaughton, Glenda • University of New England, gvaughto@une.edu.au	54*, 59
Veale, Andrew University of Auckland, avea002@ec.auckland.ac.nz	86 ^P
Vekemans, Xavier Laboratoire GEPV (UMR CNRS 8016), France, xavier.vekemans@univ-lille1.fr	61
Venter, Stephanus Botanical and Environmental Consultant, fanie68@bigpond.com	79 ^P
Vepsäläinen, Kari University of Helsinki, kari.vepsalainen@helsinki.fi	85 ^P
Verduijn, Marije H. University of Newcastle	59
Veselov, Alexei Karelian Research Centre, Russia, veselov@krc.karelia.ru	59, 81 ^P
Viana, Blandina F.	81 ^P
Viard, F. Station Biologique de Roscoff, France	55
Vienne, Dominique de UMR de Génétique végétale INRA-UPS-CNRS-INAPG, France, devienne@moulon.inra.fr	53
Vila, Montserrat Stación Biológica de Doñana, Spain, montse.vila@ebd.csic.es	64
Villet, Martin H. Rhodes University, m.villet@ru.ac.za	52
Villinger, Jandouwe Florida International University, Jandouwe@gmail.com	49
Villinger, Jandouwe University of Canterbury, jandouwe@gmail.com	61
Vines, Tim H. CEFE, Montpellier, France, Timothy.Vines@cefe.cnrs.fr	80 ^P
Vink, Cor J. • AgResearch, New Zealand, cor.vink@agresearch.co.nz	62*, 75
Vivat, Valérie	73
Vlcek, Cestmir Academy of Sciences of the Czech Republic	66
Voelckel, Claudia • Allan Wilson Centre, Massey University, c.voelckel@massey.ac.nz	70*
Vorsino, Adam E. • University of Hawaii at Manoa, avorsino@hawaii.edu	49*, 55

W

Waas, Joeseph University of Waikato	69
Wagmann, Kristen • University Lille 1, France, kristen.wagmann@ed.univ-lille1.fr	53*
Wagner, Gunter P. Yale University, gunter.wagner@yale.edu	75
Wagstaff, Steven J. • Landcare Research, New Zealand, wagstaffs@landcareresearch.co.nz	63*, 79 ^P
Wainwright, Peter C. University of California, Davis, pcwainwright@ucdavis.edu	69
Waite, Jessica L. • University of Utah, Jessi.Waite@gmail.com	81 ^P
Wakayama, Norio • Tohoku University, Japan, wa@umiho.net	87 ^P
Wake, David B. University of California, Berkeley, wakelab@uclink.berkeley.edu	67
Waldman, Bruce • Lincoln University, bw@bronze.lcs.mit.edu	49, 61*
Walker, Stefan P. W. • James Cook University, stefan.walker@jcu.edu.au	55*, 63*, 69, 83 ^P
Wallace, Elizabeth M. • Florida Fish and Wildlife Conservation Commission, liz.wallace@myfwc.com	87 ^P
Waller, Donald M. • University of Wisconsin, dmwaller@wisc.edu	29*, 61*
Wallis, Graham P. • University of Otago, g.wallis@otago.ac.nz	56
Walter, David E. University of Alberta, dewmite@shaw.ca	69
Walter, Ryan P. • University of Windsor, walterj@uwindsor.ca	74*, 87 ^P

Wang, Ding	60	Willig, Michael R.	73																																																																																																																																										
Institute of Hydrobiology, CAS, China, wangd@ihb.ac.cn		University of Connecticut, Storrs, michael.willig@uconn.edu																																																																																																																																											
Wang, Hung-Yi •	55*	Willis, Ingrid M. L.	88 ^P																																																																																																																																										
National Taiwan University, hurngyi@ntu.edu.tw		Landcare Research, New Zealand, willisi@landcareresearch.co.nz																																																																																																																																											
Wang, Shaoxiao	53	Willows-Munro, Sandi •	60*																																																																																																																																										
UMR de Génétique végétale INRA-UPS-CNRS-INAPG, France, wang@moulon.inra.fr		Stellenbosch University, South Africa, sm2@sun.ac.za																																																																																																																																											
Wapstra, Erik	61, 67	Wills, David M. •	70*																																																																																																																																										
University of Tasmania, Erik.Wapstra@utas.edu.au		University of Georgia, willsdm@uga.edu																																																																																																																																											
Waqa, Hilda •	88 ^P	Wills, Peter R.	74																																																																																																																																										
University of the South Pacific, WAQA_H@YAHOO.COM		University of Auckland, p.wills@auckland.ac.nz																																																																																																																																											
Ward, Josephine M. •	74, 87 ^P	Wilson, George D. F. •	62*																																																																																																																																										
University of Canterbury, josephine.ward@canterbury.ac.nz		Australian Museum, buz.wilson@austmus.gov.au																																																																																																																																											
Wardle, Glenda M.	59, 60	Wilson, Gregory A. •	75*																																																																																																																																										
University of Sydney, gwardle@bio.usyd.edu.au		University of Alberta, greg.wilson@ualberta.ca																																																																																																																																											
Warner, Daniel A. •	65*	Wilson, Lindsay	70																																																																																																																																										
University of Sydney, dwar7923@mail.usyd.edu.au		University of British Columbia, wilsonla@zoology.ubc.ca																																																																																																																																											
Warren, Dan L. •	73*	Wilson, Megan	73, 80 ^P																																																																																																																																										
University of California, Davis, danwarren@ucdavis.edu		University of Otago, meganj.wilson@stonebow.otago.ac.nz																																																																																																																																											
Waser, Nickolas M.	63	Wilson, Robbie S. •	85 ^P																																																																																																																																										
University of California, Riverside, nickolas.waser@ucr.edu		University of Queensland, r.wilson@uq.edu.au																																																																																																																																											
Watanabe, Hidemi •	50, 56	Wilson, Robert E. •	73*																																																																																																																																										
Hokkaido University, Japan, hidwatan@yahoo.co.jp		University of Alaska Fairbanks, ftrew1@uaf.edu																																																																																																																																											
Watanabe, Maiko •	62*	Wilson, Wade D. •	61*																																																																																																																																										
Tokyo Institute of Technology, mwatanab@bio.titech.ac.jp		University of New Mexico, wwilson@unm.edu																																																																																																																																											
Watanabe, Masakatsu	49	Wilton, Aaron D. •	88 ^P																																																																																																																																										
Tokyo Institute of Technology, watanabe.m.ai@m.titech.ac.jp		Landcare Research, New Zealand, wiltona@landcareresearch.co.nz																																																																																																																																											
Waters, Jonathan M. •	56*, 56, 61, 73, 86 ^P	Wimberger, Peter H. •	79 ^P																																																																																																																																										
University of Otago, jonathan.waters@stonebow.otago.ac.nz		University of Puget Sound, wimbo@ups.edu																																																																																																																																											
Watts, Chris H. S.	69	Winder, Linton	80 ^P																																																																																																																																										
South Australian Museum, Watts.Chris@saugov.sa.gov.au		University of the South Pacific, winder_l@yahoo.com																																																																																																																																											
Waugh, John •	49*	Winder, Louise •	75																																																																																																																																										
Allan Wilson Centre, Massey University, w.j.waugh@massey.ac.nz		AgResearch, New Zealand, louise.winder@agresearch.co.nz																																																																																																																																											
Wayne, Marta L.	65	Wiszniewski, Joanna	57																																																																																																																																										
Macquarie University, mlwayne@zoo.ufl.edu		Macquarie University, jwiszniew@bio.mq.edu.au																																																																																																																																											
Webb, Jonno	67	Witt, Taina C. •	59, 81 ^P																																																																																																																																										
University of Sydney, jweb9554@mail.usyd.edu.au		Landcare Research, New Zealand, andreas.juergens@pollination.de																																																																																																																																											
Weiblen, George D. •	62, 73*	Wogan, Guinevere O. U. •	56*																																																																																																																																										
University of Minnesota, gweiblen@umn.edu		University of California, Berkeley, gwogan@berkeley.edu																																																																																																																																											
Weiczorek, Anna M.	49	Wolfe, Lorne M. •	53*																																																																																																																																										
Weir, Jason T. •	61*	Georgia Southern University, wolfe@georgiasouthern.edu																																																																																																																																											
University of British Columbia, weir@zoology.ubc.ca		Wolff, Jonci Nikolai •																																																																																																																																											
Weldon, Chris	87 ^P	University of Canterbury, jnw30@student.canterbury.ac.nz		University of Canterbury, jnw30@student.canterbury.ac.nz		West, Ron	53	Wolff, Jonci	48*	University of Wollongong, ron@uow.edu.au		University of Canterbury, jnw30@student.canterbury.ac.nz		Westneat, Mark W. •	53*	Wolff, Kirsten	59	Field Museum of Natural History, mwestneat@fieldmuseum.org		University of Newcastle		Westoby, Mark •	55	Wolinska, Justyna	65	Macquarie University, Mark.Westoby@mq.edu.au		Indiana University, jwolinsk@indiana.edu		Weston, Peter H.	69	Woodhams, Michael D. •	56, 68, 68*, 72	Botanic Gardens Trust, Sydney, peter.weston@rbgsyd.nsw.gov.au		Allan Wilson Centre, Massey University, m.d.woodhams@massey.ac.nz		Whelan, Robert J., III	53, 67	Woodruff, Ron C.	78 ^P	University of Wollongong, Rob_Whelan@uow.edu.au		US Geological Survey, carolw@alaskalife.net		Whelan, Simon •	59*	Woolbright, Scott A.	51	University of Manchester, simon.whelan@manchester.ac.uk		Northern Arizona University, scott.woolbright@nau.edu		Whigham, Peter A. •	69*	Worthington Wilmer, Jessica M. •	51*	University of Otago, pwhigham@infoscience.otago.ac.nz		Queensland Museum, jessicaww@qm.qld.gov.au		While, Geoffrey M. •	61*	Wright, Mark G. •	49, 55*	University of Tasmania, gwhile@utas.edu.au		University of Hawaii at Manoa, markwrig@hawaii.edu		White, Daniel J. •	48*	Wright, Timothy F.	84 ^P	University of Canterbury, daniel.white@canterbury.ac.nz		New Mexico State University, wright@nmsu.edu		White, Daniel	85 ^P	Wróblewska, Ada •	85 ^P	Whitfield, James B. •	57*, 73	University of Białystok, Poland, adabot@uwb.edu.pl		University of Illinois, jwhitfie@life.uiuc.edu		Wu, Carrie A.	63	Whitham, Thomas G.	53, 62	Duke University, carriewu@duke.edu		Northern Arizona University, thomas.whitham@nau.edu		Wu, Steven H. •	57*	Whiting, Martin J.	63	University of Auckland, swu031@ec.auckland.ac.nz		University of the Witwatersrand, South Africa, martin@gecko.wits.ac.za		Whitlock, Michael •	67*	University of British Columbia, whitlock@zoology.ubc.ca		Wickham, Shelley	71	University of Sydney		Wieczorek, Ania M. •	49, 55*, 55, 80 ^P	University of Hawaii, Manoa, ania@hawaii.edu		Wiens, John J.	71	Stony Brook University, wiensj@life.bio.sunysb.edu		Wilcox, Chris	51	CSIRO, Australia, chris.wilcox@csiro.au		Wilkinson, Gerald S.	57	University of Maryland, College Park, wilkinso@umd.edu		Will, Margee C. •	86 ^P	University of Canterbury, mcw60@student.canterbury.ac.nz		Willi, Yvonne	49, 86 ^P	University of Melbourne, yvonne.willi@agrl.ethz.ch		Williams, Joseph H. •	59*	University of Tennessee, joewill@utk.edu		Williams, Stephen	63
University of Canterbury, jnw30@student.canterbury.ac.nz		University of Canterbury, jnw30@student.canterbury.ac.nz																																																																																																																																											
West, Ron	53	Wolff, Jonci	48*																																																																																																																																										
University of Wollongong, ron@uow.edu.au		University of Canterbury, jnw30@student.canterbury.ac.nz																																																																																																																																											
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Field Museum of Natural History, mwestneat@fieldmuseum.org		University of Newcastle																																																																																																																																											
Westoby, Mark •	55	Wolinska, Justyna	65																																																																																																																																										
Macquarie University, Mark.Westoby@mq.edu.au		Indiana University, jwolinsk@indiana.edu																																																																																																																																											
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Botanic Gardens Trust, Sydney, peter.weston@rbgsyd.nsw.gov.au		Allan Wilson Centre, Massey University, m.d.woodhams@massey.ac.nz																																																																																																																																											
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University of Wollongong, Rob_Whelan@uow.edu.au		US Geological Survey, carolw@alaskalife.net																																																																																																																																											
Whelan, Simon •	59*	Woolbright, Scott A.	51																																																																																																																																										
University of Manchester, simon.whelan@manchester.ac.uk		Northern Arizona University, scott.woolbright@nau.edu																																																																																																																																											
Whigham, Peter A. •	69*	Worthington Wilmer, Jessica M. •	51*																																																																																																																																										
University of Otago, pwhigham@infoscience.otago.ac.nz		Queensland Museum, jessicaww@qm.qld.gov.au																																																																																																																																											
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University of Tasmania, gwhile@utas.edu.au		University of Hawaii at Manoa, markwrig@hawaii.edu																																																																																																																																											
White, Daniel J. •	48*	Wright, Timothy F.	84 ^P																																																																																																																																										
University of Canterbury, daniel.white@canterbury.ac.nz		New Mexico State University, wright@nmsu.edu																																																																																																																																											
White, Daniel	85 ^P	Wróblewska, Ada •	85 ^P																																																																																																																																										
Whitfield, James B. •	57*, 73	University of Białystok, Poland, adabot@uwb.edu.pl																																																																																																																																											
University of Illinois, jwhitfie@life.uiuc.edu		Wu, Carrie A.	63																																																																																																																																										
Whitham, Thomas G.	53, 62	Duke University, carriewu@duke.edu																																																																																																																																											
Northern Arizona University, thomas.whitham@nau.edu		Wu, Steven H. •	57*																																																																																																																																										
Whiting, Martin J.	63	University of Auckland, swu031@ec.auckland.ac.nz																																																																																																																																											
University of the Witwatersrand, South Africa, martin@gecko.wits.ac.za																																																																																																																																													
Whitlock, Michael •	67*																																																																																																																																												
University of British Columbia, whitlock@zoology.ubc.ca																																																																																																																																													
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University of Hawaii, Manoa, ania@hawaii.edu																																																																																																																																													
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Stony Brook University, wiensj@life.bio.sunysb.edu																																																																																																																																													
Wilcox, Chris	51																																																																																																																																												
CSIRO, Australia, chris.wilcox@csiro.au																																																																																																																																													
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University of Maryland, College Park, wilkinso@umd.edu																																																																																																																																													
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University of Canterbury, mcw60@student.canterbury.ac.nz																																																																																																																																													
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University of Melbourne, yvonne.willi@agrl.ethz.ch																																																																																																																																													
Williams, Joseph H. •	59*																																																																																																																																												
University of Tennessee, joewill@utk.edu																																																																																																																																													
Williams, Stephen	63																																																																																																																																												

Y

Yabaki, Mere M. R. •	88 ^P
University of the South Pacific, yabaki_m@usp.ac.fj	
Yamamoto, Yoshiyuki	73
University College London	
Yampolsky, Lev Y. •	56*
East Tennessee State University, yampolsk@etsu.edu	
Yanchukov, Alexey •	82 ^P
University of Otago, alexey.yanchukov@stonebow.otago.ac.nz	
Yang, Eun Chan •	84 ^P
Chungnam National University, Korea, ecyang@cnu.ac.kr	
Yoke, Marth	51
Brigham Young University, martha.yoke@gmail.com	
Yong-Un, Ma	65

Yoon, Hwan Su University of Iowa, hwansu@gmail.com	84 ^P
Yoon, Jongmin Colorado State University, jmyoon@lamar.colostate.edu	53
York, Katherine L. • University of Melbourne, k.york@pgrad.unimelb.edu.au	61*
Yoshida, Kouta • Tokyo Institute of Technology, yoshida.k.ah@m.titech.ac.jp	49*
Young, Andrew G. • CSIRO, Australia, andrew.young@csiro.au	57, 63, 63*, 67

Z

Zakon, Harold University of Texas	48
Zamora Vilchis, Itzel • James Cook University, Itzel.ZamoraVilchis@jcu.edu.au	55*
Zamudio, Kelly • Cornell University, KRZ2@CORNELL.EDU	57*
Zgurski, Jessica M. • University of Alberta, jzgurski@ualberta.ca	53*
Zhang, Yinan • University of Sydney, yzha4139@mail.usyd.edu.au	53*
Zhargam, Shiva University of North Carolina Greensboro	87 ^P
Zigler, Kirk Sewanee, University of the South, kzigler@sewanee.edu	53
Zinkgraf, Matthew S. • Northern Arizona University, msz2@nau.edu	53*
Zuccarello, Joe Victoria University of Wellington, joe.zuccarello@vuw.ac.nz	72
Zucoloto, Rodrigo B. Zuk, Marlene • University of California, Riverside, marlene.zuk@ucr.edu	81 ^P 63*

Notes