FOURTH INTERNATIONAL

BARCODE OF LIFE

CONFERENCE ADELAIDE AUSTRALIA 2011

www.dnabarcodes2011.org

WELCOME

Andrew Lowe
Conference Chair

On behalf of the organising committee and conference hosts, I'd like to welcome you all to Adelaide, and for some of our international guests extend a first warm welcome to Australia. We are very excited to host this important meeting, and the expertise and passion of the many contributors have made it clear it will be a tremendous meeting. We have had an unprecedented level of interest in the meeting, and will have over 420 delegates from nearly 60 countries attending. The program is a stimulating mix of presentations and workshops focussing on the latest developments in the field of DNA barcoding, such as the use of next generation sequencing, innovative statistical analysis, novel databasing frameworks and the use of environmental samples. In addition we will see the reporting of major barcoding initiatives, from across the tree of life, including whole biotas, as well as a range of barcoding applications that improve invasive species tracking, identification of pests and diseases, securing trade routes, and are revolutionising environmental monitoring. I hope to meet you while you are in Adelaide and I am sure you will enjoy the conference and our city.

Scott E. Miller
CBOL Chair

Dear Conference Participants,

On behalf of the Consortium for the Barcode of Life (CBOL), it's a pleasure to welcome you to the Fourth International Barcode of Life Conference, the first in the southern hemisphere! This is by far the largest barcode conference ever held, with more than 400 participants from 57 countries and more than 500 abstracts submitted. The conference week is packed with interesting sessions thanks to presenters from around the world and the hard work of the Program Committee, listed below. The excellent facilities and superb social program have been arranged by the Local Organizing Committee, chaired by Andy Lowe and co-chaired by Andy Austin.

CBOL's sincere thanks go out to all the committee members, support staff, and to the sponsors, exhibitors and contributors whose logos and messages are distributed throughout this program booklet.

Finally, CBOL thanks you all for coming to Adelaide to exchange information and ideas. Your talent and enthusiasm are critical to the success and the ever-growing momentum of the DNA barcoding movement.

Have a great conference!

David Schindel
Conference Co-Chair

CONTENTS

COMMITTEES

Local Organizing Committee

Andy Lowe, CHAIR, UNIVERSITY OF ADELAIDE
Andy Austin, CO-CHAIR, UNIVERSITY OF ADELAIDE
Stefan Caddy-Retalic, UNIVERSITY OF ADELAIDE
Aria Colton, UNIVERSITY OF ADELAIDE
Steve Cooper, SOUTH AUSTRALIAN MUSEUM
Hugh Cross, STATE HERBARIUM OF SOUTH AUSTRALIA
Paul Finn, UNIVERSITY OF ADELAIDE
Fred Gurgel, UNIVERSITY OF ADELAIDE
Alison Jobling, UNIVERSITY OF ADELAIDE
Adriana Russo, UNIVERSITY OF ADELAIDE
Mark Stevens, SOUTH AUSTRALIAN MUSEUM

Program Committee

David Schindel, CHAIR, CBOL
George Amato, AMERICAN MUSEUM OF NATURAL HISTORY
Andy Austin, UNIVERSITY OF ADELAIDE
Pedro Crous, CBS FUNGAL BIODIVERSITY CENTRE
Patricia Escalante, INSTITUTO DE BIOLOGIA UNAM
Peter Freeman, INTERNATIONAL BARCODE OF LIFE PROJECT
Peter Hollingsworth, ROYAL BOTANIC GARDEN
Beatrice N. Khayota, NATIONAL MUSEUMS OF KENYA
Andy Lowe, UNIVERSITY OF ADELAIDE
Daniel Masiga, ICIPE- AFRICAN INSECT SCIENCE FOR FOOD AND HEALTH
Christopher Meyer, SMITHSONIAN INSTITUTION
Scott Miller, SMITHSONIAN INSTITUTION
Gerardo Salazar, INSTITUTO DE BIOLOGIA UNAM
Neil Sarkar, UNIVERSITY OF VERMONT
Kwang-Tsao Shao, ACADEMIA SINICA
Pablo Tubaro, MUSEO ARGENTINO DE CIENCIAS NATURALES
Michelle van der Bank, UNIVERSITY OF JOHANNESBURG

CO-HOSTS

Government of South Australia

South Australian Museum

Environment Institute

AUSTRAL AN CENTRE FOR EVOLUTIONARY BIOLOGY AND BIODIVERSITY

THE UNIVERSITY of ADELAIDE

CONSORTIUM FOR THE BARCODE OF LIFE

GENERAL INFORMATION

Registration times

The registration desk will be in Bonython Hall. Registration will be open from 14:00 until 18:00 on Sunday, 27 November, and from 8:00 until 18:00 for the remainder of the conference. Access to conference events and venues is only permitted with a valid badge; nametags must be worn at all times. People who have pre-registered for the preconference training events or for the conference should plan to pick up their conference materials before trying to enter their first meeting.

Internet Access

The conference organizers have arranged for wireless internet access during sessions in all conference buildings (Elder Hall, Bonython Hall, the Napier building, Innova21 and Ligertwood Law Theater). Information on connecting to the wireless network will be provided in the registration packet.

Session Schedules

The conference will begin promptly at 9:00 each morning and will end at 17:30 each day. 30 minute morning and afternoon coffee/tea breaks will be at 10:30 and 15:30. Lunch will be from12:30 and continue until 14:00 daily. Coffee/tea breaks and lunch will be in the Innova21 Atrium during the pre-conference meetings and in Bonython Hall during the conference. A packed lunch will be provided to each registrant on Thursday at 12:30 at the start of free afternoon time.

Thursday Tour Information

ABORIGINAL CULTURAL TOUR

TOUR STARTS: 13:00
Meet at the back entrance of the Botanic Gardens (Friends Gate, Plane Tree Drive)

TOUR ENDS: 16:30
The tour will end at the Tandanya National Aboriginal Cultural Institute.

NOTES: Dress appropriately for the weather and an active walk. Suggested items to bring include a sun hat, sunscreen, walking shoes, and raincoat/umbrella. Food is not provided during this tour.

LIFE IS A CABERNET WINE TOUR

TOUR STARTS: 13:00
Meet at Bonython Hall for tour departure.

TOUR ENDS: 17:30
Participants will be returned to their hotels.

NOTES: Dress appropriately for the weather. Money will be necessary to purchase any of the wine you've tasted. Food is provided during this tour.

CLELAND WILDLIFE PARK TOUR

TOUR STARTS: 13:00
Meet at Bonython Hall for tour departure.

TOUR ENDS: 17:30
Participants will be returned to their hotels.

NOTES: Dress appropriately for the weather and wear comfortable shoes. Money will be necessary to purchase snacks and souveneirs. Food is not provided on this tour.

ACCOMPANYING PERSONS
If you have purchased an extra ticket for an accompanying person, it will be included in your registration packet.

Information for Presenters

SPEAKER READY ROOM, NAPIER 144

All presentations will be managed through a central networked filing system. All presenters must load their presentation files into this system at least **three hours** before their session begins. Technicians will be available to receive these files in the Speaker's Ready Room, Napier 144, during the following times:

- **27 NOV:** 14:00-16:00
- **28-30 NOV, 2 DEC:** 08:00-17:00
- **1, 3 DEC:** 08:00-12:30

All presentations will be projected from a Windows computer and must be in Powerpoint (.ppt and .pptx) format. Speakers can test their presentations in the Speaker's Room when PCs are not occupied by presenters who are uploading their files.

RECORDING AND PRESENTATION

The conference organizers plan to make the following resources available online after the conference:

- PDF versions of Powerpoint presentations
- PDF versions of posters
- Audio recordings of plenary presentations, both as podcasts and linked to PowerPoint presentations.

As part of the abstract confirmation process, all presenters were asked for their permission to share a digital copy of their slide and/or poster presentation with the conference organizers. These presentations will be made available through Connect, the Barcode of Life network (http://connect.barcodeoflife.net) by the conclusion of the conference. Posting of presentations will be delayed if the presenter opted to submit a modified presentation without proprietary information for public sharing.

POSTER PRESENTATIONS

Presenters may install their posters in Bonython Hall from 10:00 to 18:00 on Tuesday, 29 November. Posters must be affixed using only double-sided velcro strips which the organizers will provide. Posters must be removed no later than 10:30 on Saturday, 3 December. Any posters remaining at this time will be discarded.

EXHIBITORS

Display booths will be ready for exhibitor set-up in Bonython Hall from 10:00 to 18:00 on Tuesday, 29 November. Display booth materials will need to be removed no later than 14:00 on Saturday, 3 December. Any materials remaining after this time will be discarded of and an extra clean-up fee will be charged to the associated exhibitor group.

List of social events

OPENING RECEPTION

TUESDAY, 29 NOVEMBER
ADELAIDE ZOO
18:00-20:30

The welcome reception will be hosted at the famous Adelaide Zoo, home to the only two giant pandas in the southern hemisphere. The zoo is within easy walking distance of the University of Adelaide. Volunteers will guide participants from the conference venue to the event site.

RIAUS DEBATE AND RECEPTION

WEDNESDAY, 30 NOVEMBER
ELDER HALL, THE UNIVERSITY OF ADELAIDE
18:00-18:45 PANEL DEBATE
18:45-19:30 QUESTIONS FROM THE FLOOR

A panel discussion hosted by the RIAus covering the topic of
"Do we need DNA Barcoding for Conservation?"
This discussion will involve leading experts from the barcoding and conservation field, including time for audience participation and questions at the end of the discussion.

FRIDAY CLOSING RECEPTION

FRIDAY, 2 DECEMBER
SOUTH AUSTRALIA MUSEUM
17:45-19:30

A cocktail reception held inside the South Australian Museum will be an opportunity to continue discussions while viewing the spectacular exhibits.

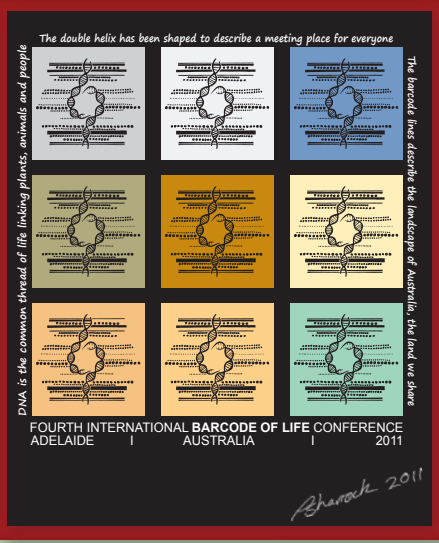
RIAus Debate: "Do we need DNA Barcoding for Conservation?"

In this era when native habitats are disappearing at an even faster rate than the government budgets meant to preserve them, some tough choices are necessary to preserve what is left. The modern dilemma for conservation biology is to decide what can be saved, and what cannot. The key challenge therefore is to determine the most economical approach for making these decisions, in order to conserve the regions with the highest biodiversity. One approach to this dilemma is provided by DNA Barcoding, in which genetic signatures unique to each species are utilized to determine the regions with the highest biodiversity—measured in terms of the genetic diversity and distance between species in a given area. Though this requires costs for laboratory resources, with DNA barcoding this approach is streamlined for maximum efficiency, and standardised so that results can eventually be compared to any region in the world.

Some contend however, that DNA barcoding is not the best approach for conservation biology. They argue that this approach uses too many resources and there are other ways which, while not precise, provide a reasonable estimate with fewer costs with the same final result. In this context, the University of Adelaide, the Consortium for the Barcode of Life and RIAus present a debate between the two sides of this issue. Some of the leading biologists and policy makers in this field will state their views and discuss the relevant arguments for each side. Ultimately, they will strive to answer the questions of what we are saving, and how much do we need to know about what we are conserving?

PANEL:

Paul Willis, MC
Pete Hollingsworth, DNA BARCODING
Michelle van der Bank, DNA BARCODING
Andrew Lowe, CONSERVATION SCIENCE
Allan Holmes, CONSERVATION AND POLICY
Karen James, PUBLIC ENGAGEMENT IN SCIENCE



I am an Indigenous artist of Eastern Arrernte descent. My Language group is Kuyani Arabunna/Arrernte. I am a multi skilled artist with a number of different mediums. I enjoy using line, texture, tone and shadows in my work. I have exhibited interstate and overseas. My last major solo exhibition was at Tandanya National Culture Institute.

I am also the first person recognized for carving ochre pigment in making sculptures. I taught myself this over a twelve year period in where I developed my own technology for carving ochre. I was also recognized by ABC for making these sculptures back in late 2005. I believe innovation, art and technology connects the traditional to the contemporary forms of art together.

Personally art is about understanding visual language and the visual language you use no matter what the form is. This is where art can have a real personal feel or touch in the experience of art. I believe everyone has a visual language, but artists pay more attention to it, than most others.

Peter Sharrock, Artist

WEEK AT A GLANCE

WEDNESDAY

OPENING PLENARY, PRESENTED BY LIFE TECHNOLOGIES

WELCOME AND KEYNOTE ADDRESS

9:00 Welcome from Andrew Lowe, Conference Chair and Local Officials

9:45 Welcome and Report from Scott E. Miller, CBOL Chair

10:00 Keynote Address: Mike Wilkinson
THINKING BEYOND THE BARCODE. HOW BEST TO EXPLOIT THE EMERGING BARCODE RESOURCES?

10:30 *Coffee/Tea Break*

BARCODING APPLICATIONS: TEN-MINUTE 'LIGHTNING' PRESENTATIONS

11:00 Rebecca Johnson
CAN DNA BARCODING HELP STOP THE BUDGIE SMUGGLERS? THE FUTURE OF WILDLIFE FORENSICS AS A CRIME FIGHTING TOOL

11:10 Johannes Groenewald
IDENTIFYING QUARANTINE ORGANISMS WITH DNA BARCODES – QBOL AND ITS CONTRIBUTION TO QBANK

11:20 Laura Boykin
SPECIES DELIMITATION AND GLOBAL BIOSECURITY

11:30 Damon Little
COMMERCIAL TEAS HIGHLIGHT PLANT DNA BARCODE IDENTIFICATION SUCCESSES AND OBSTACLES

11:40 Discussion

SCIENTIFIC FINDINGS A

11:50 Nicolas Hubert
CRYPTIC DIVERSITY IN INDO-PACIFIC CORAL REEF FISHES REVEALED BY DNA-BARCODING PROVIDES NEW SUPPORT TO THE CENTRE-OF-OVERLAP HYPOTHESIS

12:10 Bruce Deagle
FURTHER FACTS FROM FAECES: DIETARY DNA BARCODING USING HIGH THROUGHPUT SEQUENCING

12:30 *Lunch in Poster/Exhibit Area*

SIDE MEETINGS

13:00 Barcode Applications Forum

13:00 Geneious Presentation

13:00 LifeTech Office Hours

POSTER SESSION

14:00 Visit posters and exhibits, Bonython Hall

15:30 *Coffee/tea break*

PLENARY SESSION 2

SCIENTIFIC FINDINGS B

16:00 Nicolas Puillandre
LARGE SCALE SPECIES DELIMITATION METHOD FOR HYPERDIVERSE GROUP

16:20 Ilene Mizrachi
BARCODE SEQUENCE DATAFLOW INTO GENBANK

NEW APPROACHES TO GENERATING REFERENCE BARCODES

16:40 John La Salle
THE "BARCODE BLITZ": ACCELERATING THE TARGETED CAPTURE OF BARCODE DATA

17:00 Ralph Imondi
BARCODING THE KELP FORESTS OF CALIFORNIA'S CHANNEL ISLANDS NATIONAL PARK: SERVING THE COMPOUND INTERESTS OF MARINE RESEARCH, RESOURCE MANAGEMENT, AND RESEARCH-BASED SCIENCE EDUCATION

THURSDAY

TAXON PLENARY SESSIONS

PLANTS

9:00 Andrew Lowe
THE APPLICATION OF DNA BARCODING AND INTRA-SPECIFIC GENETIC VARIATION TO TIMBER SOURCE VERIFICATION AND TRACKING

9:30 De Zhu Li
DNA BARCODING OF 6000 SPECIES OF PLANTS IN CHINA

10:00 Hannah McPherson
DO NEXT GENERATION SEQUENCING APPROACHES PROVIDE THE ANSWER FOR DNA BARCODING OF PLANTS?

11:00 Peter Holingsworth
DEVELOPING STRATEGIES TO IMPROVE THE AMPLIFICIATION AND SEQUENCING OF THE MATK GENE REGION FOR LAND PLANT BARCODING

11:30 Claudio Varotto
TOWARDS THE BARCODING OF THE WHOLE VASCULAR FLORA OF TRENTINO (ITALY)

12:00 Natasha de Vere
BARCODE OF WALES / CODBAR CYMRU: A COMPLETE DNA BARCODE DATASET OF A NATION'S NATIVE FLOWER PLANTS: CREATION, APPLICATIONS AND PUBLIC ENGAGEMENT

INVERTEBRATES, **PRESENTED BY HELIX MOLECULAR SOLUTIONS**

9:00 Axel Hausmann
HOW TO ASSESS THE 'MEGABIODIVERSITY' OF INVERTEBRATES: 55% OF THE WORLD'S GEOMETRID MOTH SPECIES ARE DNA BARCODES

9:20 Claudia Bertrand
DECIPHERING BARCODE SPLITS IN MORPHOLOGICALLY CRYPTIC SPECIES OF TROPICAL LEPIDOPTERA THROUGH ALTERNATIVE LOCI AND NEXT-GENERATION SEQUENCING APPROACHES

9:40 Sandra Damm
CHARACTER-BASED DNA BARCODING ALLOWS FOR INTEGRATION OF GEOGRAPHY, ECOLOGY AND MORPHOLOGY: THE DISCOVERY OF A CRYPTIC SPECIES COMPLEX IN DRAGONFLIES USING CAOS

10:00 Sally Adamowicz
DNA BARCODES REVEAL INCREDIBLE DIPTERAN DIVERSITY AT A SITE IN CANADA'S ARCTIC

10:20 Discussion

11:00 Sara Pinzon-Navarro
BARCODES UNRAVEL EVOLUTIONARY AND ECOLOGICAL PATTERNS OF SEED-FEEDING INSECTS

11:20 Michael Raupach
BIODIVERSITY ASSESSMENT OF THE NORTH SEA FAUNA USING DNA BARCODES AND OTHER MOLECULAR METHODS

11:40 Viatcheslav Ivanenko
ON THE DIVERSITY AND HOST SPECIFICITY OF CRUSTACEAN COPEPODS ASSOCIATED WITH STONY CORALS (CNIDARIA: ANTHOZOA: SCLERACTINIA) OF THE INDO-PACIFIC CORAL REEFS

12:00 Michelle Guzik
GENETIC DIVERGENCES AND SPECIES BOUNDARIES IN SUBTERRANEAN INVERTEBRATES 'DOWN UNDER'

12:20 Discussion

VERTEBRATES

9:00 Jan Lifjeld
DNA BARCODING OF AVIAN SUBSPECIES: A STUDY OF ISLAND ENDEMICS IN MACARONESIA

9:20 Alta Kadarusman
EXTENSIVE CRYPTIC DIVERSITY IN INDO-AUSTRALIAN RAINBOWFISHES REVEALED BY DNA BARCODING

9:40 Ernst Swartz
THE UTILITY OF BARCODING IN DOCUMENTING FISH DIVERSITY IN A POORLY EXPLORED AFRICAN RIVER SYSTEM

10:00 Dirk Steinke
MARINE FISH EGGS AND LARVAE FROM THE EAST COAST OF SOUTH AFRICA

10:20 Discussion

11:00 Martha Valdez-Moreno
LARVAE, EGGS AND GUT CONTENTS IDENTIFICATION...THREE STUDIES OF THE BARCODE APPLICATIONS ON MEXICAN FISH

ALGAE, PROTISTS, FUNGI

9:00 Gary Saunders
ALGA—IBOL'S ALGAL LIFE GLOBAL AUDIT: MUDDLED MORPHOLOGIES & MOLECULAR MAYHEM IN THE TOPSY-TURVY WORLD OF ALGAL FLORISTICS

9:20 Pieter Vanormelingen
(PSEUDO)CRYPTIC DIVERSITY AND BARCODING IN DIATOMS

9:40 Hugh Cross
TALES FROM THE CRYPTOGAMS: FUNGAL DNA FROM MUSEUM COLLECTIONS

10:00 Matteo Garbelotto
APPLICATIONS OF INTENSIVE DNA BARCODING PROJECTS FOR ADDRESSING GAPS IN FUNGAL BIODIVERSITY KNOWLEDGE

10:20 Marieka Gryzenhout
BARCODING CAN PROMOTE MYCOLOGY IN AFRICA

11:00 Alain Franc
R-SYST FUNGI : A FRENCH CONSORTIUM FOR FUNGAL BARCODING AND TAXONOMIC IDENTIFICATION

11:20 Weiland Meyer
UPDATE ON DNA BARCODING OF HUMAN PATHOGENIC FUNGI

11:40 Keith Seifert
IM-BOL: THE INDOOR MYCOTA BARCODE OF LIFE

12:30 *Packed lunches provided*

AFTERNOON

Free time for posters, tours, and individual sight-seeing

WEEK AT A GLANCE

FRIDAY

TAXONOMIC SESSIONS A

9:00-12:30

- ALL BIRDS BARCODING INITIATIVE
- BARCODING FISH
- BARCODING FUNGI
- BARCODING INSECTS
- BARCODING MACROALGAE
- BARCODING PROTISTS
- BARCODING VERTEBRATES OTHER THAN FISH AND BIRDS

12:30 *Lunch in the Poster/Exhibit area*

SIDE MEETINGS

13:00 BOLD Clinic

13:00 Geneious Clinic

13:00 LifeTech Presentation

TAXONOMIC SESSIONS B
14:00-17:30

- BARCODING FISH
- BARCODING FUNGI
- BARCODING GRASSES / BARCODING TREES, **PRESENTED BY DOUBLEHELIX**
- BARCODING INSECTS

THEMATIC SESSIONS A

14:00-17:30

- BARCODING INVERTEBRATES FOR ENVIRONMENTAL MONITORING AND ASSESSMENT OF AQUATIC HABITATS, **PRESENTED BY DENR**
- EDUCATION AND ENGAGEMENT
- BARCODING BIOTAS, **PRESENTED BY ALA**
- DATA ANALYSIS METHODS
- MARINE BARCODING, **PRESENTED BY JRS**
- RECOVERING DNA BARCODES FROM DEGRADED GENETIC MATERIAL IN NATURAL HISTORY COLLECTIONS

SATURDAY

THEMATIC SESSIONS B

9:00-12:30

- BARCODING ENVIRONMENTAL DNA, **PRESENTED BY TERN**
- ECOLOGICAL APPLICATIONS OF DNA BARCODES
- INFORMATICS OF BARCODE DATA AND BOLD MIRROR SITES
- NATIONAL NETWORKS
- PARASITES AND VECTORS
- POLAR LIFE
- ROLE OF BARCODING IN QUARANTINE APPLICATIONS AND REGULATIONS, **PRESENTED BY ABRS**
- SOCIO-ECONOMIC ASPECTS OF BARCODING

12:30 *Lunch in the Poster/Exhibit area*

SIDE MEETINGS

13:00 BOLD Clinic

13:00 Geneious Clinic

13:00 All-Africa Barcode Conference 2012

CLOSING PLENARY

INNOVATIONS AND THE FUTURE OF BARCODING

14:00 Pierre Taberlet
THE DNA METABARCODING APPROACH FOR ANALYZING ENVIRONMENTAL SAMPLES: HIGH THROUGHPUT PLANT AND ANIMAL IDENTIFICATION

14:15 Xin Zhou
TAXON DIVERSITY ANALYSIS FOR BULK INSECT SAMPLES USING THE ILLUMINA HI-SEQ PLATFORM

14:30 Conrad Schoch
AN OFFICIAL BARCODE FOR FUNGI

14:50 Discussion

STATUS AND FUTURE OF MAJOR PROJECTS: TEN-MINUTE 'LIGHTNING' TALKS

15:00 Paul Hebert
BARCODES, ORGANELLES, GENOMES, ORGANISMS

15:20 Peter Hollingsworth
DNA BARCODING OF LAND PLANTS

15:30 Robert Hanner
FISH-BOL 1.0

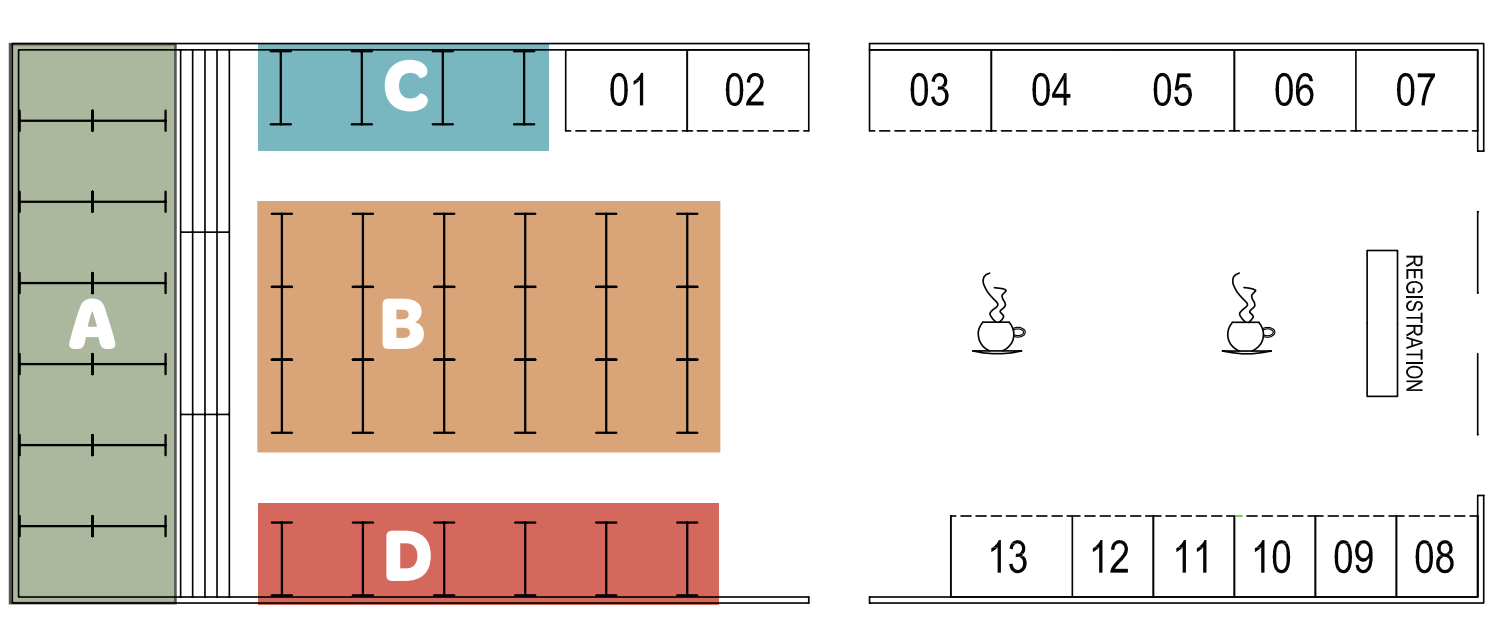
15:40 Mark Stoeckle
ALL BIRDS BARCODING INITIATIVE (ABBI): BUILDING AN ATLAS OF AVIAN MITOCHONDRIAL DNA DIVERSITY

15:50 Discussion

16:00 *Conference Adjourns*

NOTES

BONYTHON HALL FLOORPLAN



POSTERS

Posters will be displayed in Bonython Hall throughout the conference in the sections shown below, arranged alphabetically by presenter within each topic. Poster locations are specified in the Abstract Volume.

Section A
- FUNGI
- PROTISTS
- MACROALGAE
- PLANTS

Section B
- PLANTS
- TREES
- INVERTEBRATES
- INSECTS
- FISH
- BIRDS
- VERTEBRATES
- CITES/HEALTH
- NETWORKS AND INSTITUTIONS

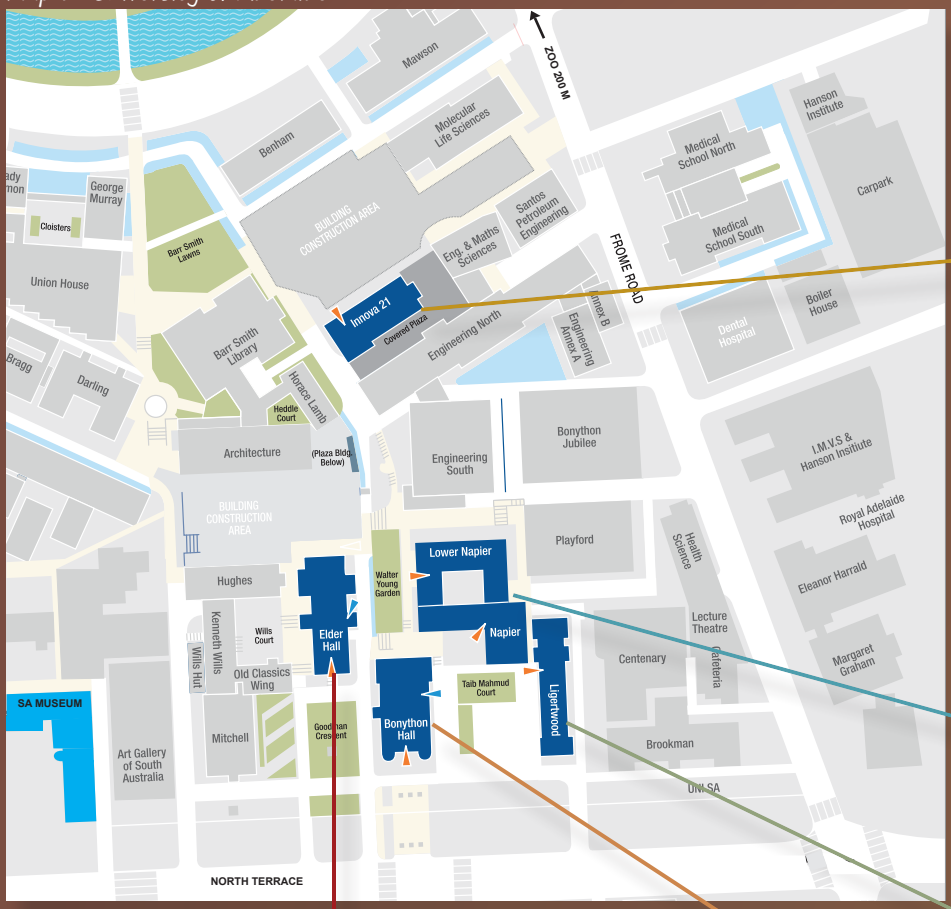
Section C
- BIOTAS
- POLAR
- MARINE

Section D
- FRESHWATER BIOSURVEILLANCE
- ECOLOGY
- DATA ANALYSIS METHODS
- INFORMATICS
- ENVIRONMENTAL DNA
- QUARANTINE

EXHIBITOR BOOTHS

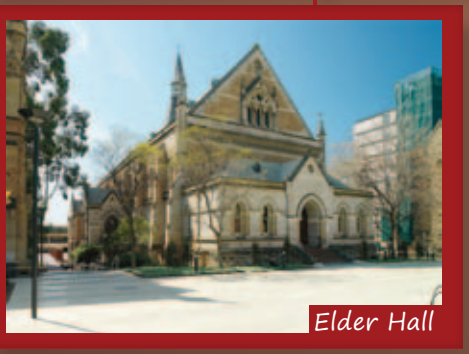
1 Australian Biological Resources Study (ABRS)
2 Atlas of Living Australia (ALA)
3 Life Technologies
4-5 BOLD Systems
6 International Barcode of Life (iBOL)
7 Subterranean Ecology
8 Australian Genome Research Facility (AGRF)
9 Diagnostic Technology
10 Department of Environment & Natural Resources, South Australia (DENR)
11 Helix Molecular Solutions
12 Barcode of Life Data Portal
13 Illumina

Map 1. University of Adelaide




Innova21


Napier Building


Elder Hall


Bonython Hall


Ligertwood Law Theater

ELDER HALL
Stately Elder Hall will host the opening and closing plenary sessions on Wednesday and Saturday.

BONYTHON HALL
The hub of the conference, Bonython Hall will contain the exhibitor booths, poster display area, as well as the catering during morning and afternoon breaks, as well as lunch.

INNOVA21
Innovative design highlights the next generation of sustainable structures. Session rooms can be found on the Basement floor.

THE NAPIER BUILDING
With its distinctive 1960's architecture, Napier will host both taxon plenary and parallel technical sessions. Rooms can be found on the Lower Ground, Ground, First and Second floors.

LIGERTWOOD LAW THEATER
Right next to Bonython Hall, the Ligertwood Law lecture theater will host a taxon plenary session on the first floor.

MAP LEGENDS AND INFORMATION

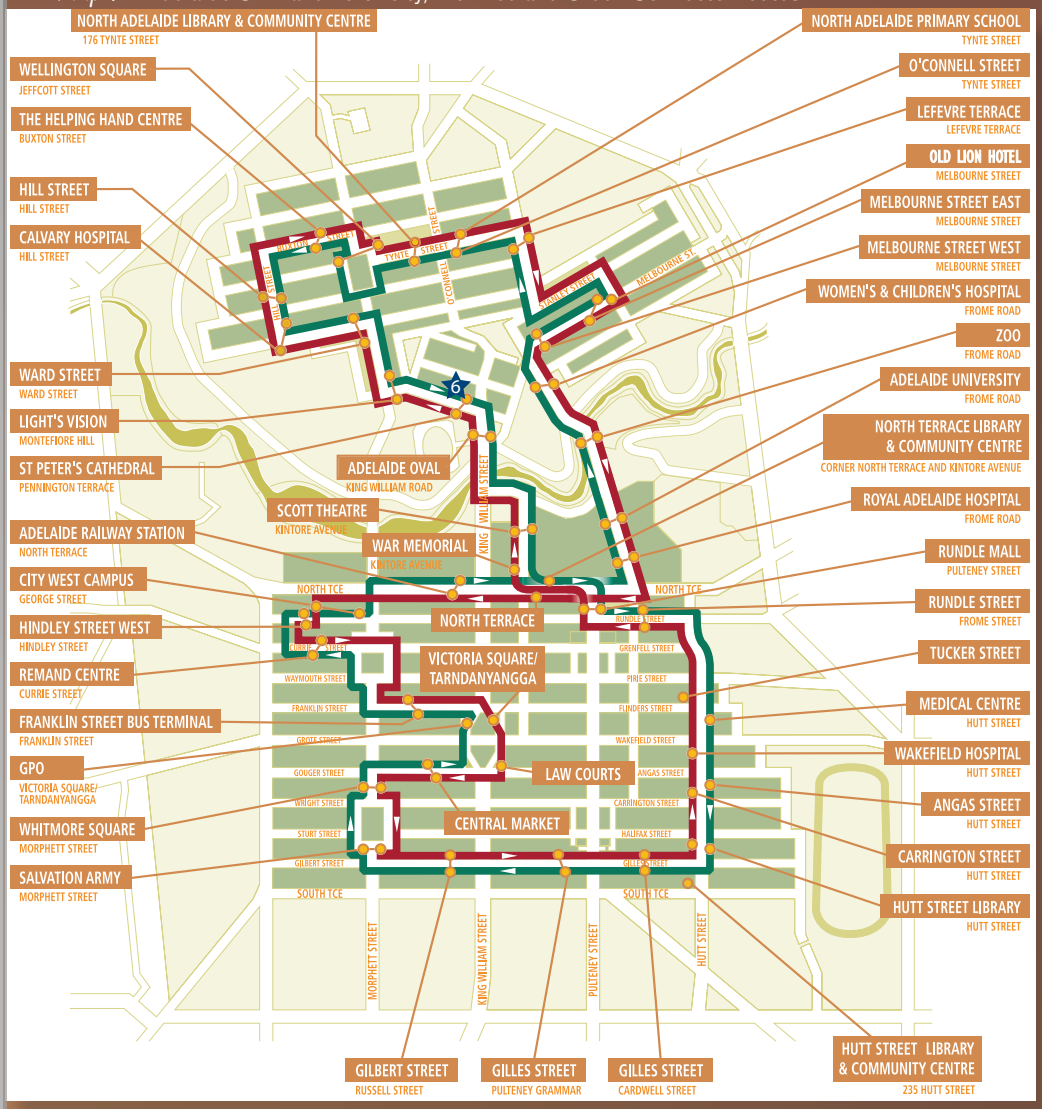
Map 1: University of Adelaide
Conference buildings are highlighted in Blue, with their entrances indicated by orange arrows.

Map 2: Connector Bus Route
The free Adelaide Connector Bus connects the City Business District (CBD) with the northern part of the city, and will be particularly helpful for delegates rooming at St. Marks.

Map 3: Bee Line and City Loop routes
City Loop (99C) and 'Bee' Line (99B) buses are free bus lines connecting the major conference venues and hotels.

Conference Locations	Connector	99C
1 Hotel Grand Chancellor on Hindley	Adelaide Railway Station	23
2 Oaks Embassy	Adelaide Railway Station	23
3 Oaks Horizon	Adelaide Railway Station	23
4 Oaks Precinct	Remand Centre	4
5 Sebel Playford	Adelaide Railway Station	23
6 St. Mark's College	St. Peter's Cathedral	
University of Adelaide	Rundle Mall	9

Map 2. Adelaide CBD and north city, with Red and Green Connector routes



Free Travel Services in Adelaide

ADELAIDE CONNECTOR BUS

SERVICE: Hourly

The Adelaide Connector Bus makes an hourly circuit that connects key points in North Adelaide and the City center. The St. Peter's Cathedral stop is conveniently located near St. Mark's, and the North Terrace Red Route and Adelaide University Green Route stops provide easy access to the University of Adelaide from either direction.

99B "BEE LINE" BUS

SERVICE: Mon-Fri ever 5 minutes
Sat-Sun every 15 minutes

The free Bee Line provides speedy access to several conference hotels, key attractions like the Rundle Mall, and is convenient to both the Railway Station and Glenelg Tram stations. Please note the Bee Line runs in a unidirectional clockwise manner.

99C "CITY LOOP" BUS

SERVICE: Mon-Fri every 15 minutes
Sat-Sun every 30 minutes

The free City Loop bus provides easy access to key points of interest in the city center. There are stops convenient to most conference hotels and the University of Adelaide, as well as the famous Rundle Mall and connections to the Railway Station and Glenelg Tram. Unlike the Bee Line, the City Loop operates in both directions.

GLENELG TRAM

SERVICE: 10 minutes during the day
20 minutes at night

The Glenelg Tram provides seven free stops in the city center, from South Terrace to Entertainment Centre. It does provide convenient access from hotels on North Terrace to Rundle Mall and Victoria Square, and is also the best way to travel outside the city to Glenelg and the nearest beach.

Map 3. City Loop (green) and 'Bee' Line (blue) bus routes through the Adelaide Central Business District (CBD).

CITY LOOP 99C

1. Victoria Square (Trams)
2. Central Market (China Town)
3. Morphett Street (Family and Community Services)
4. Hindley Street (Light Square)
5. Hindley Street West (Motels, Cafés, Marcellina's)
6. The Terraces West
7. Arts Centre (City SK8 Park)
8. Railway Station (Casino, Hyatt, Festival Centre, Adelaide Convention Centre)
9. State Library / Museum / Art Gallery
10. Botanic Gardens (Royal Adelaide Hospital, Wine Centre)
11. Parklands (Rundle Street)
12. Tandanya (Grenfell Street)
13. Hindmarsh Square (Pulteney Street)
14. St Pauls (Function Centre)
15. Fire Station (Wakefield Street)
16. Victoria Square (Trams)
17. Her Majesty's Theatre (Grote Street)
18. Central Bus Station (Backpackers Hostel)
19. Hindley Street (Rockford Adelaide)
20. Hindley Street West (Motels, Cafés, Marcellina's)
21. The Terraces (Newmarket Hotel, Day Surgery)
22. University West (George Street)
23. Uni of S.A. - City West
24. EDS Building (Registration and Licensing)
25. Roma Mitchell House (Bank Street)
26. Government House (Myer)
27. Central Shopping (David Jones)
28. Frome Street (Royal Adelaide Hospital)
29. Rundle Street (East End, Cafés, Pubs)
30. East End
31. Hindmarsh Square (Wallis Academy Cinemas)
32. Pulteney Street
33. Fire Station (Wakefield Street)
34. Gawler Place

CO-HOSTS

THE UNIVERSITY of ADELAIDE

AUSTRALIAN CENTRE FOR EVOLUTIONARY BIOLOGY AND BIODIVERSITY

South Australian Museum

Government of South Australia

CONSORTIUM FOR THE BARCODE OF LIFE

Environment Institute

SPONSORS

life technologies

international BARCODE OF LIFE

TERN Terrestrial Ecosystem Research Network

ATLAS OF LIVING AUSTRALIA

Australian Biological Resources Study

Helix Molecular Solutions

visage audio visual excellence

GORDON AND BETTY MOORE FOUNDATION

Australian Government AusAID Department of Sustainability, Environment, Water, Population and Communities

JRS JRS BIODIVERSITY FOUNDATION

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Subterranean Ecology Scientific Environmental Services

agrf Australian Genome Research Facility Ltd

illumina

Diagnostic Technology

BOLD SYSTEMS

OTHER CONTRIBUTORS

Bioplatforms Australia

BECKMAN COULTER

THE CRAWFORD FUND For a Food Secure World

NEW ENGLAND BioLabs Inc. enabling technologies in the life sciences

ZOOS SOUTH AUSTRALIA

SARDI South Australian Research and Development Institute

DoubleHELIX It's in our nature

geneious

WILEY-BLACKWELL

ARTWORK DESCRIPTION:

DNA is the common thread of life linking plants, animals and people.
The double helix has been shaped to describe a meeting place for everyone.
The barcode lines describe the landscape of Australia, the land we share.