

# ANZSCDB

Australia and New Zealand Society for  
Cell and Developmental Biology Inc.



ANZSCDB Newsletter – 28 March 2017

Dear ANZSCDB members,

It is a pleasure to be sharing news with Society Members again.

We launched our first *new look* Newsletter in October 2016. The aim is to keep Society Members more up to date with what has happened and what is planned, by having four short format Newsletters a year.

In the October 2016 Newsletter you might recall that you were all invited to participate in a poll about the future of ComBio. It is well acknowledged that ComBio provides an important platform for our members to present and hear about the excellent research conducted locally and abroad, and it also provides excellent networking opportunities for scientists from the three Societies (ASBMB, ASPS and ANZSCDB). However the feeling was that it might be time for a change. The proposal was to hold ComBio every two years and that each society would hold their own annual meeting in alternative years. The result of the poll was pretty clear with 94% of ANZSCDB members in favour of this change. Thanks to all those who took part in the poll.

This quarter's Newsletter has something for everyone with meeting and award announcements plus reports from some great meetings. Thanks to all those who sent their news!

Thinking ahead, I would really like to offer The Society's Newsletter as a forum for students and ECR's to introduce themselves and their work to other Members of our Society. So please, don't be shy, prepare a brief profile, tell us about your research, and send this and an image of yourself to us so that you will be a part of the next Newsletter.

Now that the busy start to the year is over, I hope that you all have time to enjoy the busy middle part of the year where we all get lots of great results!

All the best until next time,

Sally Dunwoodie

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## **Key Dates**

3 April: [NSW and ACT Cell and Developmental Biology Meeting](#)

3-6 April 2017: [Hunter Meeting Australia](#)

26 April: Nominations close for [President's Medal](#) and [Emerging Leader Awards](#)

18 – 22 June: [ISDB Meeting Singapore](#)

2 - 5 October: [Combio 2017](#)

28 Oct – 1 Nov 2017: [10th General Meeting of the International Proteolysis Society](#) in Canada

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### **8<sup>th</sup> Australian Developmental Biology Workshop:**

Written by Frank Tulenko, Sam Keenan and Quoc Duy Tran (ARMI, Monash).

This summer's 8<sup>th</sup> Australian Developmental Biology Workshop brought together students and early career researchers from Australia and New Zealand, and distinguished faculty from around the world, to discuss development, evolution, and life as a scientist, all in the context of the beautiful Flinder's coastline in Mornington Peninsula. Participants were greeted on Sunday—the first day of the four-day workshop—with a light lunch and an opportunity to get to know each other before diving into a series of interactive sessions on developmental organisms and the tools we use to study them. These sessions were presented by Brigid Hogan (Duke University), Edwina McGlinn (ARMI), Alan Davidson (University of Auckland), Claude Desplan (NYU), and Cliff Tabin (Harvard), and covered a variety of traditional models such as mouse, chick, and zebrafish, as well as non-model systems including wasps and cavefish. Highlights included discussing the strengths and weaknesses of each system, how to best approach picking an animal depending on your biological question of interest, and how advances in molecular methods and technologies have opened up regions of phylogeny to study that were historically inaccessible. In the evening, Brigid Hogan gave the first keynote seminar, presenting her lab's impactful work using mouse as a model for studying lung development and the role of stem cells in the adult lung. The day concluded with a poster session in which the participants in the workshop presented their research.

The second day began with Cliff Tabin's keynote address in which he discussed the development of the vertebrate gut, providing an example of how molecular signaling and physical forces are integrated during organogenesis. A series of shorter lectures on organogenesis and disease modeling followed Cliff's seminar. These covered a broad array of anatomical systems, and were given by Ian Smyth (Monash Biomedicine Discovery Institute), Brigid Hogan, Edwina McGlinn (ARMI), Richard Harvey (Victor Chang Cardiac Research Institute), Quenten Schwarz (Center for Cancer Biology, Adelaide), Natasha Harvey (Center for Cancer Biology, Adelaide), Claude Desplan, and Cliff Tabin. In the middle of the day, the participants and the faculty took a hiatus from science for a picnic lunch and bushwalk to Bushranger's bay, where some particularly friendly flies joined them. Later in the day, Mirana Ramialison gave a keynote lecture on her lab's work investigating cis-regulatory circuits in development and congenital disease. This lecture brought to the forefront the power of combining wet bench work with bioinformatics and the use of rapidly expanding ontologies for gene regulation. The day closed with an informal and energized discussion of early career development.

Tuesday brought two wonderful keynote lectures. In the first, Claude Desplan discussed how temporal and spatial patterning generates neural diversity in the fly. In addition to the elegant

science presented in this work, Claude's ability to distill complex ideas down to their core provided an exceptional teaching moment on how to present science. Alan Davidson presented the second keynote lecture, providing a tour of early zebrafish development with a focus on formation of the kidney. Alan's remarkable work was highlighted by the striking role of cell behavior in establishing the segments of the nephric system. Claude's and Alan's seminars bracketed a series of shorter sessions by Quenten Schwarz, Alan Davidson, Richard Harvey, Edwina McGlenn, Mirana Ramialison, Natasha Harvey, and Ian Smyth that centered on stem and progenitor cells in development, and how genomics, epi-genomics, and bioinformatics provide powerful tools for studying development and modeling disease. Following Tuesday's last lecture, a Workshop Dinner at the Epicurean Restaurant capped off the evening, drawing rave reviews by everyone that attended!

The last day of the Workshop began with presentations by Natasha Harvey, Ian Smyth, and Quenten Schwarz on tools available for studying developmental biology, with a particular focus on microscopy and imaging. The workshop concluded with a final session that explored how framing developmental questions in a comparative context can shed new light on the mechanisms that drive morphological evolution. Cliff Tabin, Peter Currie (ARMI), and Claude Desplan gave this series of seminars, providing a grand tour across bilaterian phylogeny, from ants to elephant sharks to jerboas. Overall, the workshop was a great success, stimulating the scientific curiosity of everybody involved.

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### **8th ANZSCDB Adelaide Meeting Report:**

This year's meeting was held on the 14th November at UniSA City East campus and attracted a record 90+registrants! Plenary speakers included Sally Dunwoodie from the Victor Chang Cardiac Research Institute, Sydney, and Jan Kaslin from the Australian Regenerative Medicine Institute, Melbourne, as well as a special symposium from local speaker Susi Woods of the South Australian Health and Medical Research Institute. The postdoc and student oral presentation sessions were all of extremely high quality, and for the first time this year also included "poster teaser" sessions from selected student abstracts. The poster session over lunch included over 30 postdoc and student posters, and it was great to see such a diverse crowd of cell and developmental biologists in attendance from all of the Universities and Institutes across South Australia. We congratulate the following presenters for their outstanding presentations that won prizes:

Best Postdoc oral - Adrienne Sullivan (A)  
Best Postdoc poster - Gen Secker (B)  
Best Student oral - Daniel Pederick (C)  
Runner up student oral - Heidi Neubauer (D)  
Best Student poster - Claire Homan (E)  
Runner up student poster - Swati Dawar  
Runner up student poster - Matthew Aubert (F)  
*Sophie Wiszniak (A-F!)*

Thank you very much to our sponsors for their generous support of this free event: Centre for Cancer Biology, University of Adelaide, Merck/Sigma-Aldrich, Eppendorf, In Vitro Technologies and Geneworks. We look forward to seeing everyone again at our event in 2017!

ANZSCDB SA State Representatives  
Sophie Wiszniak and Michael Lardelli.

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### **ANZSCDB Member News: Australia Day Honours:**

Our Honorary member and previous President's Medallist **Professor David Vaux** was recognized on Australia Day as Officer in the General Division of the Order of Australia for his research that led to new understanding of the genetic and molecular bases of cell death in cancer and other diseases.

And our long-standing member **Professor Richard Harvey** has become a Member of the Order of Australia (AM), one of our country's highest accolades

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### **Upcoming Meetings** <http://www.anzscdb.org/state-meetings/>

- 3 April: [NSW and ACT Cell and Developmental Biology Meeting](#)
  - 3-6 April 2017: [Hunter Meeting Australia](#)
  - 18 – 22 June: [ISDB Meeting Singapore](#)
  - 2 - 5 October: [Combio 2017](#)
  - 28 Oct – 1 Nov 2017: [IPS Meeting 2017:](#)
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### **ANZSCDB Corporate Member News** <http://www.anzscdb.org/sponsors-3/>

We would like to thank the following corporate sponsors:

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  - \* [Australian BioResources](#)
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### **Do you want to make a contribution to the newsletter?**

Please send content to [Annemiek Beverdam](#) or [Bree Knights](#)

The newsletter will be published approximately every three months

Please ensure submissions are no more than 100 words and factually correct  
This newsletter is distributed to all ANZSCDB members via email



# Australian BioResources

## Mouse Models

Sale of Common Mouse Strains

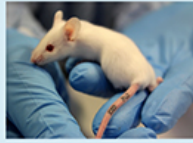
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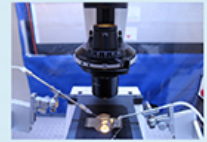
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