

# Centre for Entrepreneurial Agri-Technology Workshop

## *Research skills for a modern agri landscape: how to translate research into practice*

Today's researchers are expected to publish, teach and have societal impact. What does that mean? How do we transfer our research skills and knowledge to an agricultural industry? This CEAT workshop asks these questions and will provide you with tools to reflect on, use and apply in your emerging careers. The specific workshop objectives include:

1. Inter-generational learning through sharing lessons and reflections from a career focused on translational research
2. Relationship building between agri-industry and new and emerging ANU researchers interested in enabling a better farming future through their research
3. Relationship building amongst Early Career Researchers and PhD students
4. Provoking thought and reflection on potential pathways to impact for ANU researchers working in fields applicable to agriculture.

**Venue:** Jan Anderson Seminar room, Robertson Building, #46, ANU, 46 Sullivans Creek Road, Acton, Canberra (campus map [here](#))

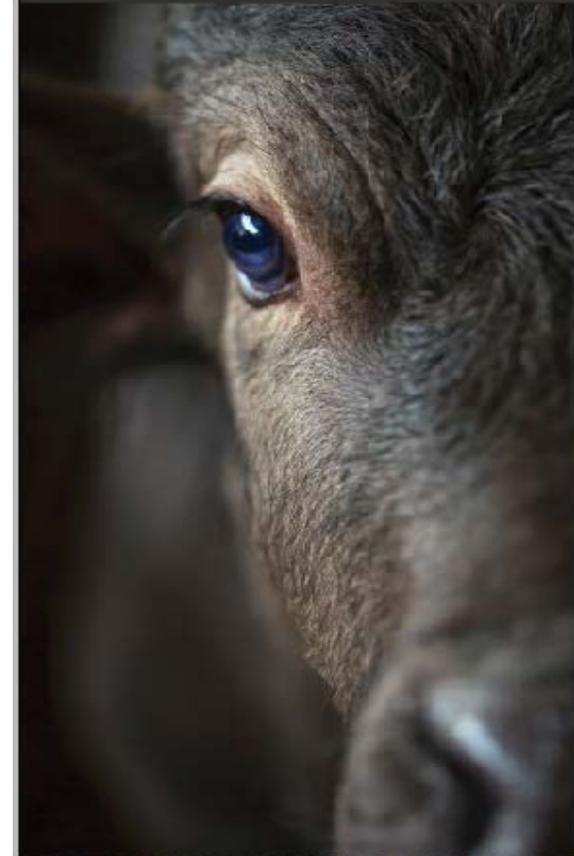
**Date:** Tuesday, 9 October, 2018

**Time:** 11:00am – 2:30pm

**Contact:** Dr Emma Burns, Senior Project Manager, CEAT. Phone: 0415657485 Email: [emma.burns@anu.edu.au](mailto:emma.burns@anu.edu.au)

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## AGENDA

11:00am-11:05am: Welcome and introductions by Professor Owen Atkin

11:05-11:15: Workshop overview and set question for facilitated breakout group discussion

*What is an example from your group of a potential real-world farming application from research currently being undertaken at ANU? Was this application intended from the outset?*

11:15am-12:00pm: Presentation by Dr Allan Green

12:00pm-12:20pm: Facilitated group discussion

12:20pm-1:00pm: Two breakout group discussions (held in DNA Room and Platypus Room) structured around answering the background question. Each group has a Facilitator, Industry Rep, and 5-7 PhD students and/or Early Career Researchers

1:00pm-1:30pm: Facilitated group discussion with presentations from each breakout group

1:30pm-2:30pm: Networking lunch in Catchside Court

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***Pathways to Impact: reflections on a career in translational plant biotechnology research***

**Guest speaker: Dr Allan Green, Research Fellow, CSIRO Agriculture & Food**

CSIRO occupies a unique space in the Australian innovation system because of the very wide range of its own scientific capabilities, its extensive collaborations, and the industries that it aims to serve. CSIRO predominantly conducts “mission-oriented” research to address problems and opportunities of significant national importance and aims to ensure delivery of impact to industry, society and the environment. It addresses this goal through undertaking leading research and technology development - often in collaboration with other research institutions and universities - and then catalysing the translation of research outputs into beneficial outcomes through impact pathways that usually involve government, industry and community bodies, and commercial partners. This talk will outline the general approach and conceptual framework that CSIRO utilises to create customised impact pathways and illustrate how this has been used to translate recent developments in plant biotechnology into innovations and benefits in agriculture. It will include examples relating to the use of gene technology to develop new and improved food and industrial oil crops, including omega-3 enhanced canola oil and super-high oleic safflower oil – the first two Australian-developed GM oilseed crops to pass through regulatory approval, and about to enter commercial production.

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# Dr Allan Green, Research Fellow CSIRO Agriculture & Food

## BIOGRAPHY

Dr Allan Green has devoted his lifetime research career at CSIRO to understanding the genetic control of oil and fatty acid biosynthesis in plants, and using this knowledge to develop new and improved oil crop products for Australian and global agriculture. Formally trained in agricultural science, majoring in plant breeding and genetics, he has been a pioneer in using increasingly sophisticated genetic technologies for the modification of fatty acid composition in oilseed crops to provide improved nutritional value, enhanced functionality, and novel industrial end uses. The CSIRO Plant Oil Engineering Group that he founded in the 1990s and provided the strategic leadership for, has risen to the forefront of global research to improve plant oil production. The Group has generated significant opportunities for innovation in the Australian and global oilseeds industries, through the creation, development and imminent commercialisation of DHA Canola and Super High Oleic Safflower, that will be Australia's first two "home-grown" GM crops. Their recent development of technology for synthesising and accumulating high levels of oils in plant leaves is a dramatic modification in plant energy biology. It has potential to create new oil-producing energy crops capable of sustainably delivering advanced biofuels cost-competitively with petroleum-based fuels. Allan has recently retired from full-time research and taken up a Research Fellow role at CSIRO Agriculture & Food, based in Sydney.

### Contact details:

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