

TropAg2015

Tropical Agriculture Conference 2015

Meeting the Productivity Challenge in the Tropics

16-18 November 2015 | Brisbane Convention & Exhibition Centre

Control of tropical livestock parasites into the future

Resistance to parasiticides is compromising the efficiency of control programs and global warming is expected to increase the impacts of parasites and arthropod borne diseases. This symposium will explore new technologies and approaches to livestock parasite management.

Sponsored by



Conveners:

*Assoc. Prof Ala Lew-Tabor, Centre for Animal Science, QAAFI, The University of Queensland
Dr Peter James, Centre for Animal Science, QAAFI, The University of Queensland*

- 09:00 **Welcome and Introduction**
Dr Peter James, Centre for Animal Science, QAAFI, The University of Queensland
- 09:10 **Expansion of tropical animal production in Australia: the One Health implications**
A/Prof Simon Reid, School of Public Health, The University of Queensland
- 09:35 **Parasite resistance and new options for chemical control**
Dr Andrew Kotze, CSIRO Agriculture

10:00 Morning Tea and Two Minute Poster Talks

Poster 1:

Innovative approaches to controlling a threat to bees in the sub-tropics
Ms Brogan Amos, Department of Agriculture and Fisheries, Queensland Government. The University of Queensland.

Poster 2:

*Chemical prevention and treatment of Old World Screwworm (*Chrysomya bezziana*) infestations for exotic incursions in Australia*
Mr Geoff Brown, Department Agriculture & Fisheries, Queensland Government

Poster 3:

Biopesticides for house fly control: Development of commercial fungal formulations
Mr Steven Rice, Department of Agriculture and Fisheries, Queensland Government

Poster 4:

Development of a yeast surface display library cell line to examine tick:host interactions

Mr Tom Karbanowicz, Centre for Animal Science, QAAFI, The University of Queensland

Poster 5:

Genetic characterization of Australian Eimeria, the causal agent of coccidiosis in chickens

Dr Jess Morgan, Centre for Animal Science, QAAFI, The University of Queensland

Poster 6:

Immunisation using microspheres of poly glycidyl methacrylate functionalized with MSA-2 peptide to protect cattle from babesiosis

Dr Rodriguez Valle, Centre for Animal Science, QAAFI, The University of Queensland

Poster 7:

Tea tree oil formulations for cattle tick (Rhipicephalus australis) control

Mr Jason Yim, Centre for Animal Science, QAAFI, The University of Queensland

- 11:05 **Barbervax: a new technology for livestock helminth control**
Dr Brown Besier, Department of Agriculture and Food, Government of Western Australia
- 11:30 **Synthetic biology pipeline for detection and mitigation of parasites and diseases of farmed animals**
Dr Wayne Johnston, Institute of Molecular Biology, The University of Queensland
- 11:45 **Genomics and parasite vaccines**
Assoc. Prof Ala Lew-Tabor, Centre for Animal Science, QAAFI, The University of Queensland
- 12:00 **Parasites expanding their range**
Dr Peter James, Centre for Animal Science, QAAFI, The University of Queensland
- 12:15 **Concluding comments**
A/Prof Ala Lew-Tabor, Centre for Animal Science, QAAFI, The University of Queensland

12:30 **Symposium Concludes**

The [full TropAg15 conference program](#) also features the following presentations:



Opening Keynote Address

The Role of Public Goods in addressing Global Food and Nutrition Security

Prof Wayne Powell, Chief Science Officer, CGIAR



Keynote Address

Tropical livestock production and health constraints?

Dr Donald Nkrumah, Senior Program Officer, Global Agricultural Development, Bill and Melinda Gates Foundation



Keynote Address

How can integrated farming systems be marshalled to meet the productivity challenge in the tropics?

Dr Mario Herrero, Chief Research Scientist on Food Systems and the Environment, CSIRO



The Digital Frontier and the Northern Beef Industry

Prof Ian Atkinson, Tropical Leader and Director of the eResearch Centre, James Cook University



Use of genomic tools to improve eating quality of northern Australian beef

Dr Matthew Kelly, Centre for Animal Science Senior Research Fellow, QAAFI, The University of Queensland



Nanotechnology for sustainable agriculture: Innovative solutions for protecting crops and livestock

Assoc. Prof Neena Mitter, Centre for Plant Science, QAAFI, The University of Queensland



Genomics and tick vaccine development

Assoc. Prof Ala Lew-Tabor, Centre for Animal Science Principal Research Fellow, QAAFI, The University of Queensland



Closing Keynote Address

Tropical Agriculture 2050

Sir Gordon Conway, Director of Agriculture for Impact and a Professor of International Development at Imperial College London, UK