Differences in in vitro sensitivity and accumulation of anthelmintics in Trichuris suis and Oesophagostomum dentatum
Hansen, Tina Vicky Alstrup; Nejsum, Peter; Friis, Christian; Olsen, Annette; Thamsborg, Stig Milan

Publication date:
2013

Document Version
Early version, also known as pre-print

Citation for published version (APA):
## Conference Programme

### MoNAY 26 AuGUST

<table>
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<tr>
<th>Time</th>
<th>Session</th>
<th>Speakers/Topics</th>
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</table>
| 8.15-10.00 | OPENING SESSION | Official Welcome to Country  
Premier's Address and other VIPs  
Chair: Andrew Thompson  
WAAVP: The 50th anniversary in 2013 – history, achievements and future perspectives  
Johannes Eckert  
University of Zurich  
Veterinary parasitology in Australia – a short history  
Brown Besier  
Department of Agriculture and Food Western Australia  
Veterinary parasitology in Australia – a short history  
Ian Beveridge  
University of Melbourne |
| 10.00-10.30 | Morning tea | |
| 10.30-11.45 | PLENARY SESSION: ONE HEALTH | One world health: socioeconomic burden and parasitic disease control priorities  
Paul Torgerson  
University of Zurich  
One world health: whose world, whose health?  
Yaowalark Sukthana  
Mahidol University |
11.45-13.00
COMMERCIAL LIVESTOCK - GENERAL
Room: Riverside Theatre
Chair: Peter Rolf

IWAAP5 - FIFTH INTERNATIONAL WORKSHOP ON ARCTIC AND ANTARCTIC PARASITES
Room: Meeting Room 1
Chair: Emily Jenkins

CONSERVATION AND WILDLIFE ECOLOGY
Room: Meeting Room 2
Chair: Stephanie Godfrey

HOST PARASITE RELATIONSHIPS 1
Room: Meeting Room 3
Chair: Michael Smout

FUNCTIONAL GENOMICS 1
Room: Meeting Room 4
Chair: Bernd Kalina

DRUG TARGETED SELECIVE TREATMENT
Room: Meeting Room 5
Chair: Robert Donald

HORSE PARASITES
Room: Meeting Room 6
Chair: Craig Collett

ONE HEALTH 1
Room: Meeting Room 7
Chair: Calum MacPherson

11.45-12.00
Achieving veterinary guided parasite control for sustainable veterinary practice
Rob Churchill
Crosswell Veterinary Hospital

Echinococcus spp. in northern North America
Emily Jenkins
University of Saskatchewan

Age-related patterns of infection for an invasive fly in tree-ranging wildlife
(Cervus canadensis) in Alberta, Canada
Melissa Beck
University of Lethbridge

Something’s happening here: Apparent progressing evolution of Dicrocoelium dendriticum metacercaria in their intermediate host
Doug Cokl
Agriculture and Agri-Food Canada

HaemEB - getting more out of haemorrhage
Stefano Mangiola
The University of Melbourne

The repeatability of FEC of horses and the implications for targeted selective treatment
Miriam Schuermans
Ludwig-Maximilians-Universität

Prevalent gastrointestinal parasites and the implications for targeted deworming protocols in horses under hot dry climates
Chanan Al-Ghamdi
Al-Baha University

11.45-12.15
Gastrointestinal nematodes and the technical efficiency of dairy farms
Mariaka Van Der Voort
Institute for Agricultural and Fisheries Research

Lungworms in muskoxen in Norway - a potential threat with warmer climate?
Inger Hamnes
Norwegian Veterinary Institute

Of macropods and nematodes: A novel technique for investigating host-parasite population dynamics
Matthew Lott
Macquarie University

The Angiostromkya vacuolar transcriptome provides deep insights into the parasite’s biology and immunobiology, and prospects for new interventions
Brendan Ansell
University of Melbourne

The draft Trichurus suis genome
Aaron Jex
The University of Melbourne

Genetic evaluation of lambs subjected to a targeted selective treatment
Andre Green
Lincoln University

Treatment of equine gastric enteritis with moxidectin
Rolf K. Schuster
Central Veterinary Research Laboratory

12.00-12.15
An investigation into the current transmission pathway of Taenia ovis in Australia
David Jenkins
Charles Sturt University

Exploiting parallels between livestock and wildlife systems
Hannah Rose
University of Bristol

Barkhans, babbings and blood-suckers: using social network models to understand parasite transmission in wildlife populations
Stephanie Godfrey
Murdoch University

Cytokine expression in the plasma of cattle following inoculation with neospora caninum throughout gestation
German Cortés
Ministry of Research Institute

Organisation of catherine cytoplasmic granules within the Fasciola hepatica genome
Kristy Cwiklinski
University of Liverpool

Proteomics of the metacercarial stage in Oxyuriasis cuniculi
Martine Ondreková
University of Veterinary Medicine Vienna

Can we to measure inflammation predict production responses to anthelmintic treatment in dairy cattle?
Johannes Charrer
Ghent University

Macrostyle larval resistance in Oxyuriasis cuniculi and Parascaris equorum on Australian horse farms
Anita Czucz
Lincoln University

Echinococcus control requires dog management
David Heath
DNA Investments Ltd

12.15-12.30
Helminth neurobiology: identifying the mining targets of cholesterergic immunotherapy
Emily Jenkins
Hedmark University College

Toxoplasma gondii in Scandanavian brown bears
Krista Jones
Hedmark University College

Trypanosomes and their parasitic vectors on a translocated population of Australian marsupials
Judy Dustin
Murdoch University

How does galactin-11 mediate gastrointestinal nematode resistance in sheep?
Sarah Preston
Murdoch University

Proteomics of the metacercarial stage in Oxyuriasis cuniculi
Martine Ondreková
University of Veterinary Medicine Vienna

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Gastrointestinal helminths of camels (Camelus dromedarius) in center of Iran
Ali Reza Saei
Institute of Applied-Scientific Education of Ahs-Agriculture, Multimedia Center

Blatocystis spp. in West Australian Wildlife
Emilie Jenkins
University of Saskatchewan

Nematode protozoan karyosporosis does humoral immune response confer protection
Anja Jacobson
Vetmeduni Vienna

Piroplasms of parasitic nematodes
Bert Smepedersen
The University of Melbourne

A performance based targeted selective anthelmintic treatment regime for ginpling cattle
Robin McKerney
Lincoln University

Equate strongyloid egg re-appearance period after larvicide or moxidectin treatment in Italy, the Netherlands and Belgium
Donato Traconis
University of Teaneo

A cryptosporidiosis swimming pool associated outbreak in Kimbley, Western Australia
Josephine Ng-Hublin
Murdoch University

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1300-1315
Functional characterisation of S. mansoni egg-accreted proteins and their role in the host immune response
Emily Jenkins
University of Saskatchewan

Box of a persistent anthelmintic infection to promote alleviation of a host response to intestinal nematodes in calves
Peter Putfert
Vetmeduni Vienna

Effective treatment of equine gastric enteritis with moxidectin
Rolf K. Schuster
Central Veterinary Research Laboratory

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Antti Oksanen
University of Quebec

Efficacy of ivermectin, pyrantel and cyathostomins and Parascaris equorum infection in foals in southern Australia
Kristopher Hughes
Charles Sturt University

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<th>Speaker</th>
<th>Affiliation</th>
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<tbody>
<tr>
<td>14:00-15:15</td>
<td><strong>ACAR - PARASITE CONTROL AND LIVESTOCK PRODUCTION IN SE ASIA</strong></td>
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<td>Room: Riverside Theatre</td>
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<td>Chair: Douglas Grey</td>
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<tr>
<td>14:00-14:15</td>
<td>Epidemiology, impact and benefits of control, and vectors of some affecting livestock in Mindanao, Philippines</td>
<td>Alan Dargantes</td>
<td>Central Mindanao</td>
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<td>14:15-14:30</td>
<td>Helminth control in Malaysia: Dealing with anthelmintic, resistance</td>
<td>Chandrawathani Panchadcharam</td>
<td>Central Mindanao</td>
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<td>14:30-14:45</td>
<td>Epidemiology of strongyle infections in small ruminants in three management systems in Malaysia</td>
<td>Rehana Sani</td>
<td>Murdoch University</td>
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<td>14:45-15:00</td>
<td>Tachinella in pigs and humans in northern Laos</td>
<td>James Conlan</td>
<td>Murdoch University</td>
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<td>15:00-15:15</td>
<td>Zoonotic parasite transmission within a remote northern Laos village - implications for control and the one health concept</td>
<td>Amanda Ash</td>
<td>Murdoch University</td>
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<td>15:15-15:45</td>
<td><strong>ECOLOGY AND EPIEDEMOLOGY - LIVESTOCK</strong></td>
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<td>Chair: David Emery</td>
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<tr>
<td>15:15-15:45</td>
<td>The importance of Soil as a Reservoir of Gastrintestinal Nematode Larvae on Sheep</td>
<td>Sarah Groot</td>
<td>University of New Zealand</td>
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<tr>
<td>15:45-16:00</td>
<td><strong>PARASITE ZOOHOSES AND TROPICAL MEDICINE</strong></td>
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<td>Chair: Santiago Mac-Costa</td>
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<tr>
<td>16:00-16:15</td>
<td>Iron Metabolism in Schistosomes: Insights for novel methods for diagnosis</td>
<td>Malcolm Jones</td>
<td>Murdoch University</td>
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<td>16:15-16:45</td>
<td><strong>SCNEXIS - THE INNOVATIVE SOLUTIONS FOR PARASITICIDE DRUG DISCOVERY</strong></td>
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<td>Room: Meeting Room 6</td>
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<td>Chair: Karrie Powell</td>
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<td>16:45-17:00</td>
<td>Dirofilaria immitis infection in adult dogs in France: abattoir survey and monitoring of faecal direct examination of individual milk HRP-ELISA for high risk dairy farms</td>
<td>Christopher Charter</td>
<td>CSIRO</td>
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<td>17:00-18:00</td>
<td><strong>COMMERCIAL LIVESTOCK - CATTLE</strong></td>
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<td>Room: Meeting Room 7</td>
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<td>Chair: Brenda Rixton</td>
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<td>18:00-18:45</td>
<td>Evaluation of ELISA coupled with confirmatory testing as a surveillance tool for T. suis infection in Australian wild boar</td>
<td>Leigh Cuthell</td>
<td>The University of Queensland</td>
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<td>18:45-19:30</td>
<td><strong>INTERNATIONAL COMMISSION ON TRICHINELLOSIS</strong></td>
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<td>Room: Meeting Room 8</td>
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<td>Chair: Alvin Gajadhar</td>
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<td>19:30-20:15</td>
<td>Detection of Trichinella murrelli in an imported horse in Canada due to novel bovine-to-human transmission</td>
<td>Canadian Food Inspection Agency</td>
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<tr>
<td>20:15-20:30</td>
<td>Study on the prevalence of Trichinella spiralis in Australian wildlife</td>
<td>Canadian Food Inspection Agency</td>
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<tr>
<td>20:30-21:00</td>
<td>Detection of Trichinella spiralis in Australian wildlife</td>
<td>Canadian Food Inspection Agency</td>
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</table>
AQUACULTURE ANIMAL HEALTH - DRUGS AND DRUG RESISTANCE

15.45-17.00
Room: Meeting Room 3
Chair: Tom Kennedy

1. Introduction and Overview
- Ronald Kaminsky
  - Novartis
  - 15.45-17.00
  - Room: Meeting Room 6
  - Chair: Yaowalark Sukthana

2. Parasitic Diseases in South East Asian Aquaculture
- Suprasimo Chinabut
  - Department of Fisheries, University of Technology Sydney
  - 16.00-16.15
  - Room: Meeting Room 7
  - Chair: Marshall Lightowlers

3. Development of recombinant antigen-based serological diagnosis for the detection of Schistosoma japonicum infection in water buffaloes
- Jose Ma. Arguelles
  - Obafemi Awolowo University of Agriculture
  - 16.15-16.30
  - Room: Meeting Room 8
  - Chair: Nicholas Smith

4. Considerable heterogeneity of the Ca2+-activated voltage-gated K+-channel SLO-1 between different clades of nematodes and the potential impact on the repression of SLO-1 and amphotericin
- Daniel Kukas
  - Free University Berlin
  - 16.30-16.45
  - Room: Meeting Room 3
  - Chair: Barry Hosking

5. Anthelminthic resistance in nematodes of beef cattle – results from a survey of Scottish farmers
- Jenny Collar
  - Department of Agriculture and Food
  - 16.45-17.00
  - Room: Meeting Room 3
  - Chair: Barry Hosking

6. Liver fluke: Evaluating the efficacy and safety of current treatments
- John McNeilly
  - CSIRO
  - 16.45-17.00
  - Room: Meeting Room 3
  - Chair: Barry Hosking

7. ANKA and Non-Lethal Plasmodium yoelii infection
- Birgitte Poulsen
  - University of Bari
  - 17.00-18.00
  - Room: Meeting Room 3
  - Chair: Barry Hosking

PLATINUM SPONSOR SESSION: BAYER

- Long-term efficacy of an imidacloprid 10% / flumethrin 4.5% polymer matrix collar (Seresto®, Bayer) in dogs and its potential to prevent canine leishmaniasis in a hyper-endemic area
  - Domenico Otranto
    - University of Bari

- Prevention of tick-borne diseases in dogs using an imidacloprid / flumethrin collar
  - Filipe Dantas-Torres
    - Aggeu Magalhães Research Centre (Fiocruz-PE)

- Neutrophil extracellular traps as innate immune reaction against the emerging complex parasites
  - Carlos Hermosilla
    - University of Bari

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- It’s easy being green: carbon utilisation in a photosynthetic sister of the apicomplexan parasites
  - Christina Foster
    - The University of Sydney

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### TUESDAY 27 AUGUST

**PLENARY SESSION: COMPANION ANIMALS - CHALLENGES FOR THE FUTURE**

**Chair:** Robin Gasser  
**Future challenges for parasitology: vector control and one health in the Americas**  
Suanne Little  
Oklahoma State University  
**Future challenges for parasitology: vector control and one health in Europe**  
Norbert Mencke  
Bayer - Germany

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| 10.15-11.30 | Gastro-intestinal parasite species change in response to selection in tsetseflies/Anopheles/Mosquitoes  
John Carlsson  
Dep. Agric. & Food IRA  
| Room: Riverside Theatre  
Dieting Palmer  
|                                                    |
| 10.15-10.30 | The prevalence of the African Grasshopper (Tetrathorax weberi) in the Tsetse fly Pest  
John Kjær  
University of Copenhagen  
| Room: Meeting Room 1  
Catherine Connolly  
|                                                    |
| 10.30-10.45 | Trichomonas diversity in cattle and suitability for their use in zoonoses  
Nur Maihia  
Bald Face  
| Room: Meeting Room 2  
Tenki & Trung Ngam  
|                                                    |
| 10.45-11.00 | Functional investigation of a QTL region affecting resistance to Haemonchus contortus in sheep  
Philippe Jacques  
Veterinary School of Toulouse, France  
| Room: Meeting Room 3  
Julie Austin  
Murdoch University  
|                                                    |
| 11.00-11.15 | Comparison of tick resistance of cross-bred sheep to Babesia gibsoni and Babesia bigemina  
Johan Goettli  
Murdoch University  
| Room: Meeting Room 4  
Craig Thompson  
Murdoch University  
|                                                    |
| 11.15-11.30 | Breeding for beef strike resistance in Merino sheep  
Johan Goettli  
Murdoch University  
| Room: Meeting Room 5  
Dionizios Vassilopoulos  
Department of Veterinary Disease Science  
|                                                    |
| 11.40-12.40 | Oral Poster Session A walk on the wild side  
Sawan Khat  
| Room: Meeting Room 6  
All about tapeworms  
Chair: David Jelinek  
|                                                    |

**ORAL POSTER SESSION**

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<td>12:45-13:30</td>
<td>Lunch Sponsored by Novartis Animal Health</td>
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<tr>
<td>13:30-14:45</td>
<td><strong>DRUG RESISTANCE SMALL - RUNINMANTS 1</strong>&lt;br&gt;Chair: Roger Prichard</td>
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<td><strong>DIAGNOSTICS - APICOMPLEX</strong>&lt;br&gt;Chair: Rebecca Trisb</td>
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<td><strong>DOG AND CAT PARASITES 1</strong>&lt;br&gt;Chair: Anja Jachim</td>
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<td><strong>DRUG DISCOVERY</strong>&lt;br&gt;Chair: Brianne O'Harely</td>
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<td><strong>TEACHING WORKSHOP</strong>&lt;br&gt;Chair: Ryan O'Harely</td>
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<td><strong>FUNCTIONAL GENOMICS 2</strong>&lt;br&gt;Chair: Aaron Jex</td>
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<td><strong>IMMUNOLOGY GENERAL</strong>&lt;br&gt;Chair: Edwin Clarebout</td>
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<td></td>
<td><strong>ONE HEALTH 3</strong>&lt;br&gt;Chair: Susan Katz</td>
</tr>
<tr>
<td>13:30-14:45</td>
<td>Can combination anthelmintics be used once resistance to multiple drugs has been seen? <strong>Tania Waghorn</strong>&lt;br&gt;AAPharmacy</td>
</tr>
<tr>
<td>13:30-14:45</td>
<td>Results of a nationwide cross-sectional survey using a simple, one-tube assay for the simultaneous detection and diagnosis of the ten Australian Eimeria species of chickens, Roseanne Sheehan DFTP, QLD Government</td>
</tr>
<tr>
<td>13:30-14:45</td>
<td>The PadCo (Parasitology Summer Course) an EVPC residential practical course in the heart of the Mediterranean Sea <strong>Toh Shu Qin</strong>&lt;br&gt;Queensland Institute of Medical Research</td>
</tr>
<tr>
<td>13:30-14:45</td>
<td>The genome and transcriptome of Haemonchus contortus: a key model parasite for drug and vaccine discovery <strong>Roz Ila</strong>&lt;br&gt;University of Glasgow</td>
</tr>
<tr>
<td>13:45-14:00</td>
<td>Lacking efficacy of monoparatransmission and T. evansi to cattle <strong>Ian Scott</strong>&lt;br&gt;Massey University</td>
</tr>
<tr>
<td>13:45-14:00</td>
<td>Advanced studies on coccidial parasites of cattle, Mahmoud A. El-Selly&lt;br&gt;AfyaFarmHealth University</td>
</tr>
<tr>
<td>13:45-14:00</td>
<td>In vitro and in vivo activities of decoupled diphenyl-disulphides against Eimeriocoeca-multiplexes** Andrew Hempflit**&lt;br&gt;University of Bern</td>
</tr>
<tr>
<td>13:45-14:00</td>
<td>Progress in developing a &quot;downsized&quot; pancontagion test <strong>David Emerly</strong>&lt;br&gt;University of Sydney</td>
</tr>
<tr>
<td>13:45-14:00</td>
<td>Haemonchus contorta-genus and developmental/transcription <strong>Paul Korhonen</strong>&lt;br&gt;University of Melbourne</td>
</tr>
<tr>
<td>13:45-14:00</td>
<td>Immuno responses of sheep against <em>Ostertagia</em> spp (Diplazium; Destilatia) associated gastrointestinal nematode infection <strong>Borja Silva</strong>&lt;br&gt;University of Santiago de Compostela</td>
</tr>
<tr>
<td>14:00-14:15</td>
<td>First evidence for on-farm multi-drug resistance in sheep parasites in Northern Ireland <strong>Stewart Blair</strong>&lt;br&gt;Queens University Belfast</td>
</tr>
<tr>
<td>14:00-14:15</td>
<td>Immuno-PCR for detection of <em>Giardia lamblia</em> cysts in water <strong>Mingyan Deng</strong>&lt;br&gt;Standing Entry-Exit Inspection and Quarantine Bureau</td>
</tr>
<tr>
<td>14:00-14:15</td>
<td>The efficacy of a topically applied selamectin 10% / moxidectin 2% RIM formulation (Advocate, Advantage Multi® Bayer) against immature and adult <em>Spinocerca lupi</em> worms in experimentally infected dogs. <strong>Clint Austin</strong>&lt;br&gt;Bayer Animal Health South Africa</td>
</tr>
<tr>
<td>14:00-14:15</td>
<td>Bsi. If the only teaching aid in the budget is an old slide box <strong>Dwight Brown</strong>&lt;br&gt;Cornell University</td>
</tr>
<tr>
<td>14:00-14:15</td>
<td>Development of RNA interference in the human foal concon* Neocat americanus <strong>James Cook</strong>&lt;br&gt;Cook University</td>
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<tr>
<td>14:00-14:15</td>
<td>Predominant natural killer cell proliferation in Belgian blue cattle reared and managed in Amazonia under managed in Amazonia under managed in Amazonia under managed in Amazonia <strong>Laurysa Hove</strong>&lt;br&gt;Massey University</td>
</tr>
<tr>
<td>14:15-15:30</td>
<td>Resistance to monoparatransmission in two nematode species in goats <strong>David Leatherland</strong>&lt;br&gt;AAPharmacy</td>
</tr>
<tr>
<td>14:15-15:30</td>
<td>A comparison of sequencing technologies for the screening of Cryptosporidium infections in biological samples <strong>Andrea Paparini</strong>&lt;br&gt;Mudoch University</td>
</tr>
<tr>
<td>14:15-15:30</td>
<td>In vitro efficacy of Toltrazuril against <em>Besnoitia besnoiti</em> infection in <em>Vero</em> and <em>HFF</em> cells <strong>Bruno Gottstein</strong>&lt;br&gt;Institute of Parasitology</td>
</tr>
<tr>
<td>14:15-15:30</td>
<td>Core competencies in veterinary parasitology practicals – A LOGical approach <strong>Ryan O’Harlay</strong>&lt;br&gt;University of Adelaide</td>
</tr>
<tr>
<td>14:15-15:30</td>
<td>Developmental transcriptome analysis of the bovine.<em><em>Besnoitia besnoiti</em></em> infection in <em>Vero</em> and <em>HFF</em> cells <strong>Andrea Paparini</strong>&lt;br&gt;Mudoch University</td>
</tr>
<tr>
<td>14:15-15:30</td>
<td>Seri maturation of bovine monocytoid-derived dendritic cells after incubation with <em>Giardia duodenalis</em> <strong>Edwin Claerebout</strong>&lt;br&gt; Ghent University</td>
</tr>
<tr>
<td>14:15-15:30</td>
<td>Preclinical studies of <em>Toxoplasma gondii</em> in guinea pigs, sheep and pigs determined by antigenic capture and real-time PCR <strong>Sara Jurankova</strong>&lt;br&gt;University of Veterinary and Pharmaceutical Sciences</td>
</tr>
<tr>
<td>14:30-14:45</td>
<td>A survey investigating gastrointestinal nematode egg output of sheep following treatment with long acting anthelmintics on farms in New Zealand and Australia <strong>Ben Brown</strong>&lt;br&gt;Novartis Animal Health</td>
</tr>
<tr>
<td>14:30-14:45</td>
<td>Phylogenetic analysis of <em>Toxoparasites</em> complexes and <em>Toxoplasma</em> spp. detected in naturally infected Nigerian cattle breeds <strong>Michael Takeet</strong>&lt;br&gt;Technical University of Denmark</td>
</tr>
<tr>
<td>14:30-14:45</td>
<td>Metaphylactic toltrazuril treatment of dairy calves at risk of coccidiosis - short and long-term effects on weight gain <strong>Heidi Larsen Enemark</strong>&lt;br&gt;Technical University of Denmark</td>
</tr>
<tr>
<td>14:30-14:45</td>
<td>Functional analysis of the bovine immunological response against all apicomplexan B and T cell epitopes in <em>Cryptosporidium parvum</em> <strong>Annette Sarre</strong>&lt;br&gt;Shandong Entry-Exit Inspection and Quarantine Bureau</td>
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<tr>
<td>14:30-14:45</td>
<td>Functional study of a genetic marker allele associated with resistance to <em>Toxocara</em> spp in pigs <strong>Per Shaloup</strong>&lt;br&gt;University of Copenhagen</td>
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<tr>
<td>14:30-14:45</td>
<td>Leishmania australiensis infection in BALB/c nude mice <strong>Calia Santos</strong>&lt;br&gt;The University of Western Australia</td>
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<tr>
<td>14:30-14:45</td>
<td>Evidence of the three main clonal <em>Toxoplasma gondii</em> lineages in British cattle breeds <strong>Alien Burns</strong>&lt;br&gt;Moredun Research Institute</td>
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<tr>
<td>14:45-15:15</td>
<td>Afternoon tea sponsored by Novartis Animal Health</td>
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<tr>
<td>15.15-16.30</td>
<td>ELANCO GOLD SPONSOR</td>
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<td>15.15-15.30</td>
<td>The Spinosyns: Discovery and Development of a Novel Pesticide extradruide'</td>
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<td>15.30-15.45</td>
<td>The Efficacy of Spinosad for the Control of Pests Inhabiting Poultry</td>
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<td>15.45-16.00</td>
<td>Spinosad: Development and field use for flea control</td>
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<td>16.00-16.15</td>
<td>Broadening the spectrum - the combination of spinosad with milbemycin oxime</td>
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<td>16.15-16.30</td>
<td>Why history matters? A tale of large nematodes and their hosts</td>
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<tr>
<td>8.30-9.45</td>
<td><strong>PLENARY SESSION: PROPHYLACTICS AND THERAPEUTICS - NEW APPROACHES</strong></td>
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<td>Chair: Peter Holdsworth</td>
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<td>Immunomodulatory molecules of <em>F. hepatica</em> - candidates for both vaccine and immunotherapeutic development</td>
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<td>John Dalton</td>
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<td>McGill University</td>
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<td>Worms - a ‘license to kill’</td>
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<td>Ronald Kaminsky</td>
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<td>Novartis - Switzerland</td>
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<tr>
<td>9.45-10.15</td>
<td>Morning tea</td>
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<td>10.15-11.15</td>
<td><strong>WAAVP PRIZES SESSION</strong></td>
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<td><strong>ASP/ELSEVIER SESSION</strong></td>
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<td>11.15-13.15</td>
<td>Filling the gaps: expression profiling of zoonotic Apicomplexa in definitive hosts</td>
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<td>Adrian Hehl</td>
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<td>University of Zurich</td>
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<td>Specific and/or unspecific mechanisms of anthelmintic resistance: how could we tackle this conundrum?</td>
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<td>Georg von Samson-Himmelstjerna</td>
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<td>Freie Universität Berlin</td>
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<td>Wildlife parasitism in a changing climate: shifting boundaries, barriers, and paradigms</td>
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<td>Susan Kutz</td>
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<td>University of Calgary</td>
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<td></td>
<td>Denise Doolan</td>
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<td>President of the ASP</td>
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<td>13.15-14.15</td>
<td>Lunch</td>
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<td>14.15 - 16.30</td>
<td><strong>ASP AGM</strong></td>
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<td>Venue: Perth Zoo</td>
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THURSDAY 29 AUGUST

8.30-10.00

PLENARY SESSION ANIMAL PRODUCTION AND FOOD SECURITY
Chair: Brown Besier
Parasitology for the hungry, warmer, riskier world
Doug Grey ACAR

Global food security – the impact of veterinary parasites and parasitologists
Jule Fitzpatrick Monash Research Institute

WAAVP 2015
Lord Tres University of Liverpool

10.00-10.15

Morning tea

10.15-11.30

GLOWORM – Impact of global change on ruminant helminths
Room: Riverside Theatre
Chair: Brown Besier

RUIMINANTS-PROTOZOA
Room: Meeting Room 1
Chair: Ryan O’Handley

GENETIC IMMUNITY NATIVE BREEDS?
WHAT’S OLD IS NEW
Room: Meeting Room 2
Chair: Mark Sandeman

ECHINOCOCCUS
Room: Meeting Room 3
Chair: Johanna Eckert

VACCINES – GENERAL 2
Room: Meeting Room 5
Chair: David Heath

DRUG RESISTANCE – SMALL RUMINANTS 2
Room: Meeting Room 6
Chair: Roger Pritchard

VECTORS BORNE DISEASES - TICKS
Room: Meeting Room 7
Chair: Peter Irwin

PARASITES IN THE TROPICS 2
Room: Meeting Room 8
Chair: Chandravathani Panchehathran

10.15-10.30

Innovative and sustainable strategies to mitigate the impact of global change on helminth infections in ruminants (GLOWORM)
José Vercruysse Ghent University

Evaluation of factors contributing to the course of natural cryptosporidiosis in goats in Germany
Arne Duesberg University Leipzig

Red Maasai’s Dorper resistance to gastrointestinal parasite infections associated to a panel of SNP’s
Miguel Benedito Esparza

In vivo and in vitro investigations to develop functional imaging by Positron Emission Tomography (PET) for murine and human acquisition echinococcosis
Bruno Gottstein Institute of Parasitology

Immunization studies in rabbits using gut membrane-bound proteins derived from Rhipicephalus appendiculatus, R. evertsi evertsi and Amblyomma variegatum females
Lydia-Helen Kajuna Jomo Kenyatta University of Agriculture and Technology

UK guidelines for worm control – evaluating production, infection and resistance development with use on commercial farms
Jane Leamon Antigens

10.30-10.45

GLOWORM – Novel approaches to improve diagnosis of helmint infection eradication of anthelmintic resistance
Janina Deimler Freie Universität Berlin

The prevalence and productivity consequences of Cryptosporidium in sheep in Australia
Rongshang Yang Murdoch University

Immune responses associated with resistance to adult stages of Haemonchus contortus in sheep
Jorge Francisco Gonzalez University of Las Palmas De Gran Canaria

Molecular detection of E. granulosus sheep shotes (G1) infections in naturally infected dogs in Peru
Bahir Baghica Singh Sahel University Angor Ovir Veterinary & Animal Sciences University

Evaluation of in silico predicted and expressed anti-Rhipicephalus microplus antigens and their elicited immune responses in rabbits
Sabine Richards University of Pretoria

Implementation of resistance management practices on commercial sheep and calves in New Zealand
Tony Rhodes PG Wrightson Consulting

11.15-11.30

In vitro feeding model for cattle tick antigens and their elicited immune responses in rabbits
Jane Learmount Jomo Kenyatta University of Agriculture and Technology

Molecular detection of tick-borne pathogens in ticks infesting dogs
Jomo Kenyatta University of Agriculture and Technology

Evaluation of in silico predicted and expressed anti-Rhipicephalus microplus antigens and their elicited immune responses in rabbits
Sabine Richards University of Pretoria

Efficiency of monovalent against multi-resistant gastrointestinal nematodes in sheep
Justin Bailey Novartis Animal Health

Molecular detection of tick-borne pathogens in ticks infesting dogs
Jomo Kenyatta University of Agriculture and Technology

High prevalence of Schistosoma japonicum in humans and bovines from Northern Samar, Philippines
Catherine Gordon Queensland Institute of Medical Research

11.00-11.15

Spatio-temporal modeling of helminth infections in livestock in Europe
Guy Hendrickx Avi-AID

The effects of the abiotic and parasitic environment on bovine helminth early and late gestation
Patrick Craig University of Liverpool

Emergence of Echinococcus multilocularis in dogs in Canada?
Andrew Peeples University of Guelph

Echinococcus multilocularis in dogs in Canada?
Andrew Peeples University of Guelph

Antigenic diversity in Thelazia kawamurae in raccoon and African buffalo
Johanna Dinis Hermink University of Edinburgh

Efficiency of monovalent against multi-resistant gastrointestinal nematodes in sheep
Justin Bailey Novelis Animal Health

Characterisation of a new Babsia bovis thromboparatomyelitis-associated anonymous protein as a novel blood-stage vaccine candidate
Izra Izsak Ochioni University of Agriculture

Combination anthelmintics are not magic bullets – they require knowledge and wise use
Barry Hocking Novartis Animal Health

Insight into success of tick control and prevalence of transmitted pathogens in dogs in Europe
Peter Torgerson The University of Edinburgh

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Peter Torgerson The University of Edinburgh

11.15-12.00

HISTOLOGIC LESIONS IN BABALINE AND BOVINE FOETUSES INFECTED WITH DIFFERENT RHINOBORRELLA SPECIES
Johannes Charlier Ghent University

Open Forum discussion: Which approach is right?

Echinococcosis in Khyber Pakhtunkhwa, Pakistan
Tasos Rahman Khyber Medical University

In vitro feeding model for cattle tick vaccine candidate and gene function screening
Aila Lee-Tabor The University of Queensland

Antihelminthic resistance of sheep gastrointestinal nematodes in 3 continental European countries
David Barteck Zoetis

Troublesome Ticks: Emerging and Potentially Zoonotic Vector-Borne Diseases in Australia
Peter Irwin Murdoch University

11.30-12.00

All about Crypto
Chair: Una Ryan

Which approach is right?

Which approach is right?

Which approach is right?

Which approach is right?

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Which approach is right?
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<th>Chair(s)</th>
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<tbody>
<tr>
<td>12.45-13.30</td>
<td>Lunch (WAAVP AGM)</td>
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<td>13.30-14.45</td>
<td><strong>MSD (GOLD SPONSOR)</strong></td>
<td>Room: Riverside Theatre</td>
<td>David Piedrafita</td>
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<td><strong>VACCINES - FLUKES</strong></td>
<td>Room: Meeting Room 1</td>
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<td>Room: Meeting Room 2</td>
<td>Room: Meeting Room 2</td>
<td>Ian Beveridge</td>
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<td>Chair: David Piedrafita</td>
<td>Chair: Ian Beveridge</td>
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<td><strong>CONSERVATION AND WILDLIFE TAXONOMY</strong></td>
<td>Room: Meeting Room 3</td>
<td>Mark Fox</td>
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<td><strong>DIAGNOSTICS - MOLECULAR</strong></td>
<td>Room: Meeting Room 3</td>
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<td><strong>HOST PARASITE INTERACTIONS</strong></td>
<td>Room: Meeting Room 5</td>
<td>Bid Jones</td>
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<td><strong>DRUG RESISTANCE - MOLECULAR</strong></td>
<td>Room: Meeting Room 6</td>
<td>Jim Rothwell</td>
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<td><strong>DRUG EFFICACY - SHEEP</strong></td>
<td>Room: Meeting Room 7</td>
<td>Andreas Chanin</td>
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<td><strong>ONE HEALTH - ANIMAL PRODUCTION</strong></td>
<td>Room: Meeting Room 8</td>
<td>Matthew Playford</td>
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<tr>
<td>13.30-13.45</td>
<td>Biochemical characterisation of ovine parasite inhibitors from <em>Schistosoma japonicum</em></td>
<td>Queensland Institute of Medical Research</td>
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<td>13.45-14.00</td>
<td>RNA/IBBA Screening for Vaccine Targets: Identification of <em>Schistosoma mansoni</em> or <em>Trichomonas foetus</em></td>
<td>Queensland Institute of Medical Research</td>
<td>Mal Jones</td>
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<td>14.00-14.15</td>
<td>Research experience on the practical approach to parasite control in livestock in parts of Southern Africa: a changing scenario</td>
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<td>14.15-14.30</td>
<td>Molecular Characterization of <em>Amnoides</em> (Am) and <em>Tetraspora</em> (TSF) with Faecal and Hepatic Hepatoxylin</td>
<td>Louisiana University of Sydney</td>
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<tr>
<td>14.30-14.45</td>
<td>Field Trial in Commercial Irish Farms with Experimental Vaccine Use Flucabendant-Medrat Fasciola Hepatica Cultivar L1 in Cattle</td>
<td>University College Dublin</td>
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### 15.15-16.30 COMMERCIAL LIVESTOCK 
**Diagnostics - Nematodes**
- Chair: Andrew Greer

**Host Parasite Relationships**
- Chair: Andrew Hehl

**Drug Efficacy - Endoparasites**
- Chair: Douglas Cowell

**Functional Genomics 3**
- Chair: Alexander Mathis

**Drug Resistance - Small Ruminants 3**
- Chair: Carol Bein

**Apopicomplexan Biology 2**
- Chair: Katherine Tremblay

**Commercial Livestock**

**Diagnostics - Nematodes**
- Chair: Andrew Hehl

**Host Parasite Relationships**
- Chair: Andrew Hehl

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- Chair: Douglas Cowell

**Functional Genomics 3**
- Chair: Alexander Mathis

**Drug Resistance - Small Ruminants 3**
- Chair: Carol Bein

**Apopicomplexan Biology 2**
- Chair: Katherine Tremblay

### 15.15-16.30

**Total tract digestibility is reduced in anorectic parasitized ewes**

**Jos Houdijk**

**University of New England**

**A granul growth factor secreted by the cestode liver fluke, *Opisthorchis viverrini***

**Charlotte Tettmar**

**James Cook University**

**Prevalence of Strongyloides stercoralis infection in a cattle rearing community as determined by BLUSA testing from dead biotic spot for antibodies to recombinant antigen SBE**

**Kate Mousney**

**University of The Sunshine Coast**

### 15.30-15.45

**Surprising results for the distribution of *Opisthorchis viverrini* exosomes, a molecular mechanism for host-parasite interactions**

**Javier Sotillo Gallego**

**GThD - James Cook University**

**A multifocal randomised controlled trial to evaluate the efficacy of plastic clips to control benzimidazole resistance in sheep**

**Matthew Playford**

**Dawbuts Pty Ltd**

**The in vitro and in vivo response of *Haemonchus contortus* to benzimidazole excretion in sheep versus goats**

**Marian Varey**

**Institute of Parasitology SAS**

### 15.45-16.00

**Effect of lambing season on the peripheral eggs of gastrointestinal nematode **

**Andrew Porpino**

**University of Gallup**

**Membrane biogenesis and renewal of the Schistosoma mansoni tegument**

**Leigh Schultz**

**Queensland Institute of Medical Research**

**Analysis of resistance in a selected field strain of *Haemonchus contortus* to ivermectin and moxidectin using the Larval Migration on Agar Test**

**Ron Laing**

**University of Veterinary Medicine Hannover**

**The use of a stochastic model to predict the role of monopartite in combination anthelmintics**

**Barry Hocking**

**Nisvarto Animal Health**

### 16.00-16.15

**Gastrointestinal nematode control in sheep under three grazing management systems and factors influencing faecal worm egg counts**

**Stephen Walkden-Brown**

**University of New England**

**To serve or to protect? Functional analysis of *Fasciola hepatica* type 2cystatins**

**Sara Smeenk**

**Institute of Parasitology**

**Evaluation of resistance in a selected field strain of *Haemonchus contortus* to ivermectin and moxidectin using the Larval Migration on Agar Test**

**Ron Laing**

**University of Veterinary Medicine Hannover**

**Monopartite resistance selection studies in *Teladorsagia circumcincta***

**Daniel Berley**

**Moredun Research Institute**

### 16.15-16.30

**The influence of farmer autonomy on gastrointestinal nematode infection and management in small cattle farms**

**Jacques Catherine**

**NHIA**

**Expression and functional characterization of the R. microplus serpin (RMS-4), a putative 3 cystatin**

**Rolf Nijjse**

**Universidade Federal Do Parana**

**Copropathogenicity of *Haemonchus contortus* in sheep**

**Erica Sutcliffe**

**Babesiosis Research Institute**

**Proteins of the *Toxoplasma gondii* secretome and their role in host-pathogen interactions**

**Tara Paterson**

**St. George’s University**

**Cysteine proteases for the spread of benzimidazole resistance mutations**

**Umer Chaudhry**

**University of Calgary**

**Potent ex vivo activity of pyrazinosylimidazolone, naphthoquinone and mangelone blue against *Haemonchus contortus* resistant field isolates**

**Alice Butterworth**

**Queenland Institute of Medical Research**

**A Humanized Mouse Model for Transmission Blocking Antimalarial Assessment and Discovery**

**Alexis Butcher**

**Institute of Parasitology SAS**

**In vitro and in vivo studies of fenofibric acid-based drug combinations for treatment of malaria**

**Rina Wong**

**University of Western Australia**

**Lessons from agriculture on adaptive resistance management**

**Jeff Scott**

**CSIRO**

### 16.30-17.30

**PLATINUM SPONSOR SESSION: ZOETIS**

**Pesticide Resistance: From Theory to Practice**

**Chair: Patrick Mensa Zoets**

**The Evolutionary Biology of Pesticide Resistance**

**Jeff Scott**

**Cornell University, Ithaca, NY USA**

**Lessons from agriculture on adaptive resistance management**

**Tom Wada**

**CSIRO**

**Lessons from agriculture on adaptive resistance management**

**Discussion**

**CONFERENCE DINNER**

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