Differences in in vitro sensitivity and accumulation of anthelmintics in Trichuris suis and Oesophagostomum dentatum

24th International conference of the World Association for the Advancement of Veterinary Parasitology, Perth, Australia. 25-29 of August, 2013

Hansen, Tina Vicky Alstrup; Nejsum, Peter; Friis, Christian; Olsen, Annette; Thamsborg, Stig Milan

Publication date:
2013

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

Anchoring 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 fluke in free-ranging wildlife
(Cercus canadensis) in Alberta, Canada
Melissa Beck
University of Lethbridge

Somatic herpeticovirus: Apparent presomatic-eclosion of Dorotheura bidentata melitensis in their ant intermediate host
Doug Collen
Agriculture and Agri-Food Canada

HaemB - getting more out of haematin transcriptome
Stefano Mangiola
The University of Melbourne

The repeatability of FEC of horses and the implications for targeted anthelmintic treatment
Miriam Schernekus
Ludwig-Maximilians-University

Treatment of equine gastric parasyphiasm with roxecidrin
Rolf K. Schuster
Central Veterinary Research Laboratory

Investigating the suitability of dogs and pigs as animal models
Wenqi Wang
The University of Queensland

Parasite contamination of sandpits in public parks and playgrounds in Korea
Char National University

11.45-12.00
NWAAP5 - FIFTH INTERNATIONAL WORKSHOP ON ARCTIC AND ANTARCTIC PARASITES
Room: Meeting Room 1 Chair: Emily Jenkins

Gastrointestinal nematodes and the technical efficiency of dairy farms
Mariska Van Der Voort
Institute for Agricultural and Fisheries Research

Living parasitism in muskoxen in Norway - a potential threat with warmer climates?
Inger Hamnes
Norwegian Veterinary Institute

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

The Angiostrongylus vasorum transcriptome provides deep insights into the parasite's biology and immunobiology, and prospects for new interventions
Brendan Amell
University of Melbourne

The draft Trichurus suis genome
Aaron Jex
The University of Melbourne

Genetic evaluation of lambs subjected to a targeted selective treatment anthelmintic regime
Andrew Green
Lincoln University

Treatment of equine gastric parasyphiasm with roxecidrin
Rolf K. Schuster
Central Veterinary Research Laboratory

Parasite contamination of sandpits in public parks and playgrounds in Korea
Char National University

12.00-12.15
FUNCTIONAL GENOMICS 1
Room: Meeting Room 3 Chair: Michael Smout

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University of Lethbridge

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Central Veterinary Research Laboratory

Parasite contamination of sandpits in public parks and playgrounds in Korea
Char National University

12.15-12.30
ANIMAL HEALTH 1
Room: Meeting Room 7 Chair: Calum MacPherson

An investigation into the current transmission pathway of Taenia ovum in Australia
David Jenkins
Charles Sturt University

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

Rahkurus, bennets and blood-suckers: Using social network models to understand parasite transmission in wildlife populations
Stephanie Godfrey
Murdoch University

Cytokine expression in the placenta of cattle following inoculation with Fasciola hepatica genotype
Germán Cárdenas
Monash Research Institute

Organisation of cationic cysteine proteases within the Fasciola hepatica genome
Krysztof Cichocki
University of Liverpool

Proteomics of the resulting process in Oesophagostomum dentatum
Marina Ondrovics
University of Veterinary Medicine Vienna

Can we measure indicator production responses to antihelmintic treatment in dairy cattle?
Anitha Charlier
Ghent University

Macroparasite resistance in sheep?
Sarah Preston
Murdoch University

Zoonotic Ehrlichiosis in Thailand: surveillance in humans, domestic animals and wildlife
Nadine Ravinet
Charles Sturt University

Echinococcus contortus: reserse dog population management
David Huth
DNA Investments Ltd

12.30-12.45
ANIMAL HEALTH 1
Room: Meeting Room 8 Chair: Calum MacPherson

Helminth neurobiology: Identifying the mining target of tranquilising anthelmintics
Richard Martin
Jawaharlal Nehru University

Taenia solium in Scandinavian brown bears
Krista Jones
Hedmark University College

Trichinella spiralis parasites on a transplanted population of Australian marsupials
Judy Quinlin
Murdoch University

How does galacilitin 1mediate gastrointestinal nematode resistance in sheep?
Sarah Preston
Murdoch University

Protozoan of the resulting process in Oesophagostomum dentatum
Marina Ondrovics
University of Veterinary Medicine Vienna

Can we measure indicator production responses to antihelmintic treatment in dairy cattle?
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David Huth
DNA Investments Ltd

12.45-13.00
ANIMAL HEALTH 1
Room: Meeting Room 9 Chair: Calum MacPherson

Gastrointestinal nematodes of camels (Camelus dromedarius) in center of Iran
Akbar Saameh
Institute of Applied-Scientific Education of Ahad-E-Agriculture, Midlatitudinal Cen

(REAAP) Session for detection probability improves T-scale time-parasite prevalence estimates in arctic tares
Emily Jenkins
University of Saskatchewan

Helminth prognostic does humoral immune response confer protection
Anja Jacobi
University of Veterinary Medicine Vienna

RIO kinases of parasitic nematodes
Bernd Kalinna
University of Veterinary Medicine Vienna

A performance based targeted selective anthelmintic treatment regime for grazingle goats
Robin McKenzy
Lincoln University

Equine strongyloid egg re-appearance period after nematocide or roxecidrin treatment in Italy, the Netherlands and Belgium
Donato Traversa
University of Turin

An investigation into the current transmission pathway of Taenia ovum in Australia
David Jenkins
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Nadine Ravinet
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Echinococcus contortus: reserse dog population management
David Huth
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13.00-13.15
FUNCTIONAL GENOMICS 1
Room: Meeting Room 5 Chair: Bernd Kalinna

Functional characterisation of S. mansoni egg-accreted proteins
Stefano Mangiola
The University of Melbourne

Box a of persistent anthelmintic injection to promote ellmination of a host response to internal nematodes in cattle
Peter Putterford
Walser New Zealand Ltd

Equine parasites commonly anthelmintic resistant in Finland
Aarni Oksanen
Finnish Food Safety Authority Evia

Differences in vitro sensitivity and accumulation of anthelmintics in Trichurus suis and Oesophagostomum dentatum
Arief Peter Njum
University of Copenhagen

PREPARE THE DOCUMENT WITH THE ABOVE CONTENT.
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<tr>
<th>Time</th>
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<th>Speaker/Sponsor</th>
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<tbody>
<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>Tommy Leung, Central Mindanao University</td>
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<td>Parasites and climate change</td>
<td>Exploring the variate of human giardia parasites - Aanur Jain, The University of New Mexico</td>
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<td>Parasites and tropical medicine</td>
<td>Application of a Geographical Information System to assess the spatio-distribution of Fasciola hepatica infection in dairy cattle farms in Ireland - David Ennery, University College Dublin</td>
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<td>Parasite zoonoses and tropical medicine</td>
<td>Cryptoxylophaga inca: infections in dairy cows in France: abattoir survey and monitoring of bovine leucemia and monitoring of bovine milk HRP-ELISA for high risk dairy farm - Christophe Charlier, OMAFRA</td>
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<td>One health - Cryptosporidium and Giardia</td>
<td>Cattle - Zoonoses and Tropical Diseases - Calum Macperhson, St. George's University</td>
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<td>Ecology and Epidemiology - Livestock</td>
<td>Giardia - salsa in cattle - Santiago Mas-Coma, Universidad De Valencia</td>
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<td>Scynexis - the innovative solutions for parasiticide drug discovery</td>
<td>Carbonic Anhydrase Inhibitors as Antimalarials - Gillan Fisher, GQRM-University</td>
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<td>Commercial Livestock - Cattle</td>
<td>Oxyuriasis in swine - Malcolm Jones, Veterinary Research Institute, Hellenic Ministries</td>
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<td>14.14-14.30</td>
<td>Helminth control in Malaysia: Dealing with anthelmintic resistance</td>
<td>Intrafollicular and environmental risk factors for an emerging liver fluke of sympatric host species in Alberta, Canada - Melissa Beck, University of Lethbridge</td>
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<td>Epidemiology of strongyle infections in small ruminants in three management systems in Malaysia</td>
<td>Climate and Global Change Impacts of Babesia bovis Zoonotic Diseases in Europe - Santiago MacComb, Universidad De Valencia</td>
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<td>Epidemiology of Babesia melita and clinical significance of coinfection with Babesia species in cattle - Kerrie Powell, Murdoch University</td>
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<td>14.30-14.45</td>
<td>Trichinellosis in pigs and humans in northern Laos</td>
<td>Polyparasitism - the ecological complexities and impact of mixed infections - RC Andrew Thompson, Murdoch University</td>
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<td>Ticks in pigs and humans in northern Laos</td>
<td>The effect of genetic and phenotypic diversity on the control of T. cruzi infection using drug interventions - Catherine Perez, Murdoch University</td>
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<td>Zoonotic parasite transmission within a remote northern Laos village: implications for control and the one health concept</td>
<td>Epidemiology of Babesia melita and clinical significance of coinfection with Babesia species in cattle - Kerrie Powell, Murdoch University</td>
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<td>Zoonotic Primal Malarias in Peninsular Malaysia: Identifying Hosts of Babesia - Reuben Sharma, University of Kuala Lumpur</td>
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<td>Zoonotic parasite transmission within a remote northern Laos village: implications for control and the one health concept</td>
<td>The occurrence of Haemonchus placei in cattle in southern Western Australia: an unexpected finding - Abdul Jabbar, The University of Melbourne</td>
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<td>Zoonotic parasite transmission within a remote northern Laos village: implications for control and the one health concept</td>
<td>A hitman's underworld blame: black marketled to a T. simiae in a New South Wales sheep. - David Jenkins, Charles Sturt University</td>
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<td>Zoonotic parasite transmission within a remote northern Laos village: implications for control and the one health concept</td>
<td>Distribution patterns and predilection sites of Toxocara in France: a surveillance tool for Trichinella infection in Australian wildlife - Leigh Cuthill, The University of Queensland</td>
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<td>Zoonotic parasite transmission within a remote northern Laos village: implications for control and the one health concept</td>
<td>Detection of Trichinella in sheep imported into Canada: a multidisciplinary approach - Brad Scandinott, Canadian Food Inspection Agency</td>
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**Alkaline tea**
**AQUACULTURE ANIMAL HEALTH - Novartis session**

**Room: Riverside Theatre**

**Chair: Barry Hosking**

**15.45-16.00**

Introduction and Overview

Ronald Kammisky, Novartis

- Development of recombinant antigen-based serological diagnosis for the detection of Schistosoma japonicum infection in water buffaloes
  - Jose Ma. Angeles, Cebu University of Agriculture

**16.00-16.15**

Parasitic Diseases in South East Asian Aquaculture: Supranee Chinabut, Murdoch University

- Characterisation of IgE antibody responses to Ampelocalophus perditus infection in horses
  - Gerald Coles, University of Bristol

**16.15-16.30**

The potential impact of alien invasive parasitic species on economic important freshwater fish species in the Eastern Cape, South Africa

Kyle McHugh, Cape, South Africa

- The identification of the rumen fluke, Coelocophyllum dauricum, in livestock from the British Isles: Implications for epidemiology and diagnosis of liver fluke
  - Jody McNally, Moredun Research Institute

**16.30-16.45**

Comparison study of Clinostomatidae (Clinostomidae) in freshwater fish from Riau and Yogyakarta, Indonesia

Kurniasih S. Tato, Gadjah Mada University

- Development of a quantitative qDNA diagnostic test for live fluke in sheep
  - Judy McIlroy, CSIRO

**16.45-17.00**

Recent investigations into the epidemiology of winter mortality disease in Sydney rock oyster (Saccorhiza glomerata) and Zosia australis

Zoe Spiers, NSW Department of Primary Industries

- Liver fluke: Evaluating coprological diagnostics in sheep
  - Danielle Gorden, Moredun Research Institute

**17.00-18.00**

Happy Hour (POSTER VIEWING)

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**1800 - 1930**

**PLATINUM SPONSOR SESSION: BAYER**

Long-term efficacy of an icosapent 10% / fluvastatin 4.5% polymer matrix collagen (Savesol®, Bayer) in dogs and its potential to prevent canine leishmaniasis in a hyper-endemic area

Domenico Otranto, Bayer HealthCare, Animal Health

- Prevention of tick-borne diseases in dogs using an icosapent / fluvastatin collagen
  - Filipe Distaso Torres, Agewa Magalhães Research Centre (FCruz-PE)

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**DINNER**

**1900 - 2030**
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<th>Time</th>
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<td>8.30-9.45</td>
<td>TUESDAY 27 AUGUST</td>
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<td>PLenary Session: Companion Animals - Challenges for the Future</td>
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<td>Chair: Robin Gasser</td>
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<td>Future challenges for parasitology: vector control and one health in the</td>
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<td>Susam Lutter</td>
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<td>Oklahoma State University</td>
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<td>9.15-10.30</td>
<td>VECTOR BORNE DISEASE - TRYPANOSOMES</td>
<td>Room: Meeting Room 1</td>
<td>Arnette Dougall</td>
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<td>Parasites of Introduced Freshwater Fish</td>
<td>Room: Meeting Room 2</td>
<td>James Conlon</td>
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<td>The Resilience of the African</td>
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<td>Grasshopper (Thysanoptera)</td>
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<td>The species of Trypanosoma atypical in sub-saharan Africa.</td>
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<td>Trypanosoma cruzis</td>
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<td>Prevalence of Trypanosoma cruzis</td>
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<td>The analysis of Trypanosoma angasi</td>
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<td>10.30-11.45</td>
<td>DRUG DISCOVERY NATURAL PRODUCTS</td>
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<td>Parasites of Aquatic Wildlife</td>
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<td>Dicyemid parasites as biological tags to nematode, Teladorsagia</td>
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<td>Ectoparasites</td>
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<td>Prevalence of Onchocerca lupi: a neglected canine</td>
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<td>11.40-12.40</td>
<td>VACCINES - NEMATODES</td>
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<td>Risk interference (RIAs) in the parasitic nematode of Trypanosoma</td>
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<td>Vaccination with double-domain ASP</td>
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<td>confers significant protection</td>
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<td>against Cooperia oncophora</td>
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<td>10.15-11.30</td>
<td>GENETIC IMMUNITY</td>
<td>Room: Riverside Theatre</td>
<td>Dieter Palmer</td>
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<td>Chair: Maxwell Opara</td>
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<td>10.15-10.30</td>
<td>VARIATION AND HIGH LINKAGE</td>
<td>Room: Meeting Room 1</td>
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<td>DISEQUILIBRUM BGENETIC DIVERSITY IN THE RYLINGTON MERINO FLOCK</td>
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<td>TRYPSOMANAE DIVERSITY IN CATTLE AND TALES AND THEIR IMPLICATION FOR</td>
<td>Room: Meeting Room 3</td>
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<td>ZONOTROPHISM IN TANZANIA</td>
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<td>Functional Investigation of a QTL Region Affecting Resistance to</td>
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<td>Madagascar</td>
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<td>Evaluation of Dry Season Supplemental Feed Palatable</td>
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<td>Anti-Strapathy in Dogs</td>
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<td>11.00-11.15</td>
<td>Comparison of Resistance of Cross-bred Lambs to Ticks, Sheep, and</td>
<td>Room: Meeting Room 13</td>
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<td>The Morphology of Trypanosoma cruzi</td>
<td>Room: Meeting Room 15</td>
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<td></td>
<td>The Role of Trypanosoma evansi in the epidemiology and zoonotic role in</td>
<td>Room: Meeting Room 17</td>
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<td>Ethiopia</td>
<td>Room: Meeting Room 18</td>
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<tr>
<td>11.15-13.00</td>
<td>Breeding for Breed strike resistance in Merino Sheep</td>
<td>Room: Meeting Room 19</td>
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<td></td>
<td>Department of Agriculture and Food</td>
<td>Room: Meeting Room 20</td>
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<td>Production</td>
<td>Room: Meeting Room 21</td>
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<td></td>
<td>Infection kinetics and drug susceptibility of the Trypanosoma boliviense</td>
<td>Room: Meeting Room 22</td>
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<td></td>
<td>and Trypanosoma cruzis of sheep</td>
<td>Room: Meeting Room 23</td>
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<td></td>
<td>The role of Trypanosoma cruzis of sheep in the epidemiology and zoonotic</td>
<td>Room: Meeting Room 24</td>
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<td></td>
<td>role in sheep</td>
<td>Room: Meeting Room 25</td>
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</tbody>
</table>

**ORAL POSTER SESSION**

- **8.30-9.45**
  - ORAL POSTER SESSION:
    - All about tapeworms
    - Chair: David van der Pas
  - ORAL POSTER SESSION:
    - Biting me – ectoparasites
    - Chair: David van der Pas
  - ORAL POSTER SESSION:
    - More than one way to skin a cat
    - Chair: David van der Pas
  - ORAL POSTER SESSION:
    - The Joe Boray Session – What’s new and wonderful in Parasitology
    - Chair: Nick Sargeant

- **9.15-10.30**
  - ORAL POSTER SESSION:
    - Resistant to Isxur!
    - Chair: Nick Sargeant
  - ORAL POSTER SESSION:
    - Tickled Off!
    - Chair: Mango Ross
  - ORAL POSTER SESSION:
    - All about tapeworms
    - Chair: David van der Pas

- **10.15-11.30**
  - ORAL POSTER SESSION:
    - Ticked Off!
    - Chair: Mango Ross
  - ORAL POSTER SESSION:
    - Bite me! – ectoparasites
    - Chair: David van der Pas

- **11.00-11.15**
  - ORAL POSTER SESSION:
    - A walk on the wild side
    - Chair: Suwan Litter

- **11.15-12.30**
  - ORAL POSTER SESSION:
    - All about tapeworms
    - Chair: David van der Pas
  - ORAL POSTER SESSION:
    - Biting me – ectoparasites
    - Chair: David van der Pas
  - ORAL POSTER SESSION:
    - More than one way to skin a cat
    - Chair: David van der Pas

- **12.40-13.45**
  - ORAL POSTER SESSION:
    - The Joe Boray Session – What’s new and wonderful in Parasitology
    - Chair: Nick Sargeant
  - ORAL POSTER SESSION:
    - Ticked Off!
    - Chair: Mango Ross
  - ORAL POSTER SESSION:
    - All about tapeworms
    - Chair: David van der Pas
<table>
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<th>Time</th>
<th>Session</th>
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<th>Chair</th>
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<tbody>
<tr>
<td>13.30-14.45</td>
<td>DRUG RESISTANCE SMALL - RUNWORMS 1</td>
<td>Room: Riverside Theatre</td>
<td>Roger Prichard</td>
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<tr>
<td>14.15-14.30</td>
<td>Resistance to me Nosporal in two nematode species in goats</td>
<td>Room: Meeting Room 2</td>
<td>Aaron Jex</td>
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<tr>
<td>14.45-15.15</td>
<td>A survey investigating gastro-intestinal nematode egg output of sheep</td>
<td>Room: Meeting Room 3</td>
<td>Edwin Clarebout</td>
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<td>Metaphylactic toltrazuril treatment of dairy calves at risk of coccidiosis short and long term effects on weight gain</td>
<td>Chair: Ryan O'Handley</td>
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<td></td>
<td>Phylogenetic analysis of Trypanosoma congoense and T. evansi strains in naturally infected Nigerian cattle breeding</td>
<td>Chair: Mahmoud A. El-Selly</td>
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<td>13.30-14.45</td>
<td>Can combination anthelmintics be used once resistance to multiple active haeckadewenp?, Tania Wagborn</td>
<td>Room: Meeting Room 1</td>
<td>Rebecca Treab</td>
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<tr>
<td>14.15-14.30</td>
<td>Resistance to me Nosporal in two nematode species in goats</td>
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**Lunch**

**Sponsored by Novartis Animal Health**
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<th>Time</th>
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<tr>
<td>15.15-16.30</td>
<td>The Spinosyns: Discovery and Development of a Novel Parasiticide</td>
<td>Room: Meeting Room 1</td>
<td>Brent Wagner</td>
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<td>15.15-15.30</td>
<td>The Efficacy of Spinosad for the Control of Pests Infesting Poultry</td>
<td>Room: Meeting Room 2</td>
<td>Nico Smith</td>
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<tr>
<td>15.30-16.15</td>
<td>Spinosad: Development and field use for flea control</td>
<td>Room: Meeting Room 3</td>
<td>Byron Blagburn</td>
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<td>16.00-16.15</td>
<td>Broadening the spectrum - the combination of spinosad with milbemycins</td>
<td>Room: Meeting Room 5</td>
<td>Andrew Thompson</td>
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<td>16.15-16.30</td>
<td>Why history matters? A tale of largepneumonia and their hosts</td>
<td>Room: Meeting Room 6</td>
<td>Norbert Mencke</td>
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<td>16.30-17.30</td>
<td>NOVARTIS SPONSORED SESSION</td>
<td>Room: Meeting Room 7</td>
<td>Norbert Mencke</td>
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<td>17.30-18.30</td>
<td>Happy Hour (POSTER VIEWING)</td>
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<tr>
<td>8:30-9:45</td>
<td>PLENARY SESSION: PROPHYLACTICS AND THERAPEUTICS - NEW APPROACHES</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</td>
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<td>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 &quot;license to kill&quot;</td>
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<td>Ronald Kaminowsky</td>
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<td>Novartis - Switzerland</td>
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<td>9:45-10:15</td>
<td>Morning tea</td>
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<td>10:15-11:15</td>
<td>WAAVP PRIZES SESSION</td>
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<td>11:15-13:15</td>
<td>ASP/ELSEVIER SESSION</td>
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<td>Filling the gaps: expression profiling of zoonotic Apicomplexa in</td>
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<td>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:</td>
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<td>how could we tackle this conundrum?</td>
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<td>Georg von Samson-Himmelstjerna</td>
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<td>Free University of Berlin</td>
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<td>Wildlife parasitism in a changing climate: shifting boundaries,</td>
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<td>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>Denise Donlan</td>
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<td>President of the ASP</td>
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<tr>
<td>13:15-14:15</td>
<td>Lunch</td>
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<td>14:15 - 16:30</td>
<td>ASP AGM</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
Para-taenia for the funregar, warren, risker world
Dag Greil
ACPAR
Global food security – the impact of veterinary parasites and parasitologists
Julie Fitzpatrick
Monash Research Institute
WAAVP 2015
Lord Trees
University of Liverpool

10:00-10:15
Morning tea

10:15-11.30
GLORDWIR – Impact of global change on livestock helminths
Room: RiveraRea Theatre
Chair: Brown Besier
RUMINANTS-PROTOZOA
Room: Meeting Room 1
Chair: Ryan O’Nesby
GENETIC IMMUNITY NAIVE BREEDS WHATS OLD IS NEW
Room: Meeting Room 2
Chair: Mark Sandeman
ECHINOCOCCUS
Room: Meeting Room 3
Chair: Johanna Ebert
VACCINES - GENERAL 2
Room: Meeting Room 5
Chair: David Heath
DRUG RESISTANCE - SMALL RUMINANTS 2
Room: Meeting Room 6
Chair: Roger Frischard
VECTORS BORNE DISEASES - TICKS
Room: Meeting Room 7
Chair: Peter Irwin
PARASITES IN THE TROPICS 2

10:15-10.30
Innovative and sustainable strategies to mitigate the impact of global change on livestock helminths
(GLORDWIR) Josef Verroust
Ghent University
Evaluation of factors contributing to the course of natural cyathostominoplastic infections in Germany
Arnold Baagoe
University of Wageningen
Paul Massa’s Copraresistance to gastrointestinal parasitic infections associated to a panel of SNPs
Miguel Romera
Endospath
In vivo and in vitro investigations to develop functional imaging by PositronEmission Tomography (PET) for murine and human asexual echinococcosis
Bruno Gottstein
Institute of Parasitology
Immunization studies in rabbits using a B-cell Epitope derived from Rhipicephalus appendiculatus, R. sanguineus, and Amblyomina variegatum homologous Lyophilised Antigens
Julio Alfonso Kajima
Jomo Kenyatta University of Agriculture and Technology
UK guidelines for worm control – evaluating production, infection and resistance development with use on commercial farms
Jane Leaman
AHVLA

10:30-10:45
GLORDWIR - Novel approaches to improve diagnosis of helminth infection and detection of anthelmintic resistance
Jania Demeke
Frew University of Berlin
The prevalence and productivity consequences of Cryptosporidium in sheep
Adeibah
Rongchang Yang
University of Reading
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 and expressed anti-Rhipicephalus microplasmodia and their elicited immune responses in rabbits
Sabine Richards
University of Pretoria
Evaluation of silico predicted and expressed anti-Rhipicephalus microplasmodia and their elicited immune responses in rabbits
Balbir Bagicha Singh Dhaliwal
Ghent University
Implementation of resistance management practices on commercial sheep and cattle farms in New Zealand
Tony Rhodes
PGS Whiston Consulting

10:45-11.00
GLORDWIR - Practicing and combating future helminth threats and infection pattern changes in livestock in Europe
Guy Hendricks
Ave-UP
The effects of the abundant parasite, Nematodirus sp in sheep on early and late gestation
Patrick Craig
University of Liverpool
Emergence of Echinococcus multilocularis in dogs in Canada?
Andrew Greer
Lincoln University
Antigenic diversity in Thelazia parva in sheep in Switzerland and African buffalo
Andrea Peregrina
University of Ghent
Efficiency of monogastric against multi-resistant gastrointestinal nematodes
Justin Bailey
Novartis Animal Health
Molecular detection of tick-borne pathogens in ticks infesting dogs and cats in Germany
Miriam Scheuerle
The University of Edinburgh

11:00-11.15
Spatio-temporal modeling of helminth infections in livestock in Europe
Guy Hendricks
Ave-UP
Detection and characterisation of Giardia spp. in diarrheic calves in SouthernGermany
Patrick Craig
University of Liverpool
Sustainable animal production using natural immunity
David Pedrazza
Monash University
Development of a rat model for the study of alveolar echinococcosis and inbred factors that influence the success of the infection
Maria Teresa Armao-Fernandez
University of Zurich
Characterisation of a new Babesia bovis/theridion-related anonymous protein as a novel blood-stage vaccine candidate
Izzi-Izrafi
University of Veterinary Medicine of Bucharest
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 sheep and cattle in Germany
Johannes Charlier
Khyber Medical University

11:15-11.30
Novel targeted treatment and targeted selective treatment approaches in sheep and cattle
Johannes Charlier
Ghent University
Histologic Lesions in Babesia and Babesia Foetidus-infected with Babesia thompsoni carmanii: Strains
Andreas Chrysasafis
University College Dublin
Open Forum discussion: Which approach is right?
Echinococcosis in Rhyder PIK/TvN/Kaishan, Pakistan
Tayyab Rahman
Rhyder Medical University
In vitro feeding model for cattle tick vaccine candidate and gene function screening
Ala Lee-Tabor
The University of Queensland
Antibiotic resistance of sheep gastrointestinal nematodes in 3 continental European countries
David Bartnik
NZA
Troublesome Ticks: Emerging and Potentially Zoonotic Vector Borne Diseases in Australia
Peter Irwin
Murdoch University

11:30-1240
ORAL POSTER SESSION
All about Crypto Ch: Una Ryan
ORAL POSTER SESSION
All about Abomas Ch: Santiago Mac-Cone
ORAL POSTER SESSION
All about Shep Ch: Brown Besier
ORAL POSTER SESSION
All about Cows and beef Ch: David Leachwick
ORAL POSTER SESSION
Dogs do they REALLY work? Ch: David Smith
ORAL POSTER SESSION
Parasites in my body! Ch: Paul Grogan
ORAL POSTER SESSION
Pigs, Pigs and People Ch: Peter Dekaas
ORAL POSTER SESSION
Size really doesn’t matter – oocysts of protozoa Ch: Jan Silapata
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Chair</th>
<th>Location</th>
<th>Sponsor</th>
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<tbody>
<tr>
<td>13.30-14.45</td>
<td>Biochemical characterisation of serine protease inhibitors from Schistosoma japonicum</td>
<td>David Piedrafita</td>
<td>Meeting Room 1</td>
<td>Zoetis</td>
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<tr>
<td></td>
<td>A high-throughput diagnostic platform for gastrointestinal nematode infections in small ruminants</td>
<td>Ian Beveridge</td>
<td>Meeting Room 2</td>
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<td>Effect of repeated antigen administration on transmucosal and faecal excretion in sheep following infection with Trichinella spiralis</td>
<td>Mark Fox</td>
<td>Meeting Room 3</td>
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<td>Ivermectin-aglycone: a novel P-gp inhibitor to reverse macrocytic lactate resistance</td>
<td>Bid Jones</td>
<td>Meeting Room 5</td>
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<td>Using next-generation sequencing to identify in vivo resistance loci</td>
<td>Bid Jones</td>
<td>Meeting Room 6</td>
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<td>Echinococcus canadensis in slaughtered farm-kept animals</td>
<td>Mal Jones</td>
<td>Meeting Room 7</td>
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<td>Effects of Protein Supplementation on Gastrointestinal Helminth Infections</td>
<td>Mal Jones</td>
<td>Meeting Room 8</td>
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<tr>
<td>13.45-14.00</td>
<td>Research experience on the practical approach to parasite control in livestock in parts of Southern Africa: a changing scenario</td>
<td>Matthew Playford</td>
<td>Riverside Theatre</td>
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<tr>
<td>14.00-14.15</td>
<td>Molecular Characterization of Annexin (Anx) and Tetraspanin (TSP) variants</td>
<td>Trudy Strydom</td>
<td>Meeting Room 5</td>
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<tr>
<td>14.15-14.30</td>
<td>Field Trial in Commercial Irish Farms with Experimental Vaccine</td>
<td>James Cook</td>
<td>Meeting Room 6</td>
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<td>Immunomarkers for the Identification of Schistosoma mansoni Aggregates</td>
<td>David Piedrafita</td>
<td>Meeting Room 7</td>
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<td>Molecular diagnosis and therapeutic trials on fascioliasis in sheep</td>
<td>Edward Green</td>
<td>Meeting Room 8</td>
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<td>Molecular characterisation of host-pathogen immune mechanisms – Leishmania tropica and protozoan scabies mites</td>
<td>Rosie Pritchard</td>
<td>Riverside Theatre</td>
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<td>Macrocyclic lactone resistance in nematodes: Molecular marker for resistance determination</td>
<td>Roger Pritchard</td>
<td>Riverside Theatre</td>
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<td>Efficacy of a combination of monopantel and minerals against naturally acquiring gastrointestinal parasites in sheep</td>
<td>Peter Rolfe</td>
<td>Riverside Theatre</td>
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<td>Migratory pattern of Toxocara canis and Toxocara cesticolor in pigs</td>
<td>Peter Nejsum</td>
<td>Riverside Theatre</td>
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<td>Control of Taenia solium: calculation of the minimum number of anthelmintic interventions required in pigs per year to achieve control</td>
<td>Rosemary Lightowlers</td>
<td>Riverside Theatre</td>
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<td>Biochemical characterisation of serine protease inhibitors from Schistosoma mansoni</td>
<td>Ross Playford</td>
<td>Riverside Theatre</td>
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<td>Presence of cryptic species within the nematode genus Oesophagostomum</td>
<td>Mark Pearson</td>
<td>Riverside Theatre</td>
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<td>Drug efficacy - sheep</td>
<td>Mark Pearson</td>
<td>Riverside Theatre</td>
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<td>Ewe but not lamb worm control increases weaning weight of prime lambs</td>
<td>Michelle Everard</td>
<td>Riverside Theatre</td>
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<td>ONE HEALTH - ANIMAL PRODUCTION</td>
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<td>12.45-13.30</td>
<td>Lunch (WAFvP AGM)</td>
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**Sponsored by MSD**
15.15-16.30  COMMERCIAL LIVESTOCK - SHEEP  
Room: Riverside Theatre  
Chair: Andrew Grover

15.15-16.30  TOTAL TRACT digestibility is reduced in anorexic parasitized ewes  
Jose Houdijk  
SRUC

15.15-16.30  Total tract digestibility is reduced in anorexic parasitized ewes  
Jose Houdijk  
SRUC

15.15-16.30  Total tract digestibility is reduced in anorexic parasitized ewes  
Jose Houdijk  
SRUC

15.30-16.00  Membrane biogenesis and renewal of the Schistosoma mansoni tegument  
Leigh Schultz  
Queensland Institute of Medical Research

15.30-16.00  Membrane biogenesis and renewal of the Schistosoma mansoni tegument  
Leigh Schultz  
Queensland Institute of Medical Research

15.30-16.00  Membrane biogenesis and renewal of the Schistosoma mansoni tegument  
Leigh Schultz  
Queensland Institute of Medical Research

16.00-16.15  Membrane biogenesis and renewal of the Schistosoma mansoni tegument  
Leigh Schultz  
Queensland Institute of Medical Research

16.00-16.15  Membrane biogenesis and renewal of the Schistosoma mansoni tegument  
Leigh Schultz  
Queensland Institute of Medical Research

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

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

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16.15-16.30  Expression and functional characterization of the R. microplus serpin (RMS-4), an aspecific Thrombin inhibitor  
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The University of Queensland

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The University of Queensland

16.30-17.30  LESSONS FROM AGRICULTURE ON ADAPTIVE RESISTANCE MANAGEMENT  
Chair: Patrick Menus Zoetis

16.30-17.30  Lessons from agriculture on adaptive resistance management  
Tom Waldb  
CSIRO

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18.00 - 23.30  CONFERENCE DINNER  
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*Please note the program is a draft and subject to change without notice