ON-SITE FINAL PROGRAMME

CALGARY, ALBERTA, CANADA
AUGUST 9-13, 2009

ONE WORLD, ONE HEALTH
Parasites in a Changing Landscape

Supported and Promoted by:
WAAVP 2009 is hosting their international meeting in conjunction with the American Association of Veterinary Parasitologists and the International Commission on Trichinellosis.
FleaTickRisk.com
EVALUATION AND FORECAST OF PARASITIC INFESTATIONS
A novel tool for veterinarians and animal owners

MERIAL
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WELCOME LETTER

Come for the science, stay for the experience

Welcome to Calgary and the 22nd Conference of the World Association for the Advancement of Veterinary Parasitology. This continually growing event highlights the best research in the many and varied areas of expertise that make up our discipline. A unique feature of the 2009 conference is the joining together with the American Association of Veterinary Parasitologists and the International Commission on Trichinellosis which has resulted in truly diverse gathering.

The theme for this year is One World One Health: Parasites in a Changing Landscape and within that framework there is an exciting program which will begin with the opening symposium on Sunday 9 August. This symposium will feature presentations by renowned parasitologists such as Eric Morgan (UK), Isabella Cattadori (USA), Eric Hoberg (USA) and Haylee Weaver (Australia). Plenary lectures throughout the meeting will also include some exciting and provocative presentations by people such as Susan Kutz (Canada), Dan Zarlenga (USA), Marcelo Molento (Brazil), Pierre Dorny (Belgium), William Campbell (USA) and Owen Slocombe (Canada). There are also a number of thought provoking Symposia, a large number of contributed presentations and posters as well as a great selection of corporate symposia.

The Local Organising Committee welcomes you to Calgary, the heart of the Canadian prairies. We hope that you will find the science stimulating and allow the natural wonders of this part of the world to make you consider visiting for a while. You will marvel at the vistas of the wide open plains as they lead into the majestic and awe inspiring Rocky Mountains. The world renowned mountain centre of Banff is a short drive away as are the UNESCO World Heritage sites of Head-Smashed-In Buffalo Jump and Waterton Lakes National Park.

We are excited about the conference and hope that you will enjoy some outstanding science coupled with breathtaking scenery topped of with truly world-class dining, shopping and cultural activities.

Douglas Colwell
WAAVP 2009 Chair
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<thead>
<tr>
<th>Time</th>
<th>Sunday August 9</th>
<th>Monday August 10</th>
<th>Tuesday August 11</th>
<th>Wednesday August 12</th>
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** Program, subject to change

- **Sponsored Symposium**

**WAAP General Assembly**
14:15 - 15:15

**Theme Symposium**
"One World One Health"
1500-1700
University of Calgary, Faculty of Veterinary Medicine

**Plenary Session**
1700 - 1730
We Protect Companions.

Bayer Parasite Solutions include an efficient product range, reliable support and full service for veterinarians and pet owners.

- Companion animals are individuals – and so are their various needs.
- So it's best to pick the most suitable medication – right from the start.
- Choose from a wide range of Bayer Parasite Solutions and, at the same time, benefit from the professional support and the reliable service for which Bayer is famous.
- All in all, this will enrich your competence. And it will certainly help you preserve the health of your companions.
Sunday, August 09, 2009

15:00-17:00 ONE WORLD, ONE HEALTH: PARASITES IN A CHANGING LANDSCAPE

Session: WAAVP Symposium (SY)
Session Room: Exhibit Hall E
Session Chair: Douglas Colwell, Canada
Sponsored by: University of Calgary, Faculty of Veterinary Medicine

15:00 SY.1 Parasites and People in a Changing Landscape
Haylee Weaver, Australia

15:30 SY.2 Parasites and Domestic Animals in a Changing Landscape
Eric Morgan, United Kingdom

16:00 SY.3 Parasites and Wildlife in a Changing Landscape
Isabella Cattadori, United States

16:30 SY.4 Parasites in a Changing Landscape: A Global Perspective on History, Connectivity and Consequences
Eric Hoberg, United States

17:00-17:30 PLENARY 1

Session: Plenary Session (PL)
Session Room: Exhibit Hall E
Session Chair: Lydden Polley, Canada

PL.1 The Artic as a model for anticipating, preventing, and mitigating climate change impacts on host-parasite interactions
Susan Kutz, Canada

19:00-21:00 WELCOME RECEPTION
Exhibit Hall CD

Monday, August 10, 2009

08:30-10:00 OPENING CEREMONY

Session: Opening Ceremony (OC)
Session Room: Exhibit Hall E
Session Chair: Tom Kennedy, United States

10:00 Refreshment Break
Exhibit Hall CD

10:30-11:30 PL2 PLENARY 2

Session: Plenary Session (PL)
Session Room: Exhibit Hall E
Session Chair: Roger Prichard, Canada

10:30 PL2.1 Canada and Veterinary Parasitology
Owen Slocombe, Canada

11:00 PL2.2 Parasite Control in the Age of Drug Resistance and Changing Agricultural Practices
Marcelo Molento, Brazil

11:30-12:30 SY1 NOVARTIS SYMPOSIUM
Novartis Animal Health Symposium

The Science of ZOLVIX®
Delivering a revolutionary, new anthelmintic group.

Session: Symposium (SY)
Session Room: Exhibit Hall E
Welcome
Arthur Redpath
The need for a new Anthelmintic
Brown Besier, Australia
The Research
Ronald Kaminsky, Switzerland
The Development
Barry Hosking, Australia
The Development
Andrew Little, Switzerland
Q&A
A breakthrough in worm control
The first new anthelmintic class for livestock to be launched in more than 25 years is a groundbreaking scientific advance addressing veterinary and farmers needs. ZOLVIX, and its active ingredient monepantel, is the first product from the new class of the Amino Acetonitrile Derivatives (AADs). With its novel mechanism of action, ZOLVIX shows unparalleled efficacy in killing key sheep gastro-intestinal roundworms including those resistant to the older existing treatments.

Global Launch of ZOLVIX at the WAAVP Novartis Symposium
The Novartis team from Research, Development, Technical Services and Marketing will outline the story of ZOLVIX, the science behind it and highlights that drove the development in just under five years.

12:30 Lunch Break
Exhibit Hall CD
14:00-15:30  CS1-DRUG RESISTANCE AND PRODUCTION
Session: Concurrent Session  (CS)
Session Room: Exhibit Hall E
Session Chair: Robert Dobson, Australia

14:00  CS1.1  Control of resistant parasites on a commercial stocker operation
       Larry Smith, United States

14:15  CS1.2  Prevalence of parasitism in treated and non-treated cattle as determined by faecal egg counts within specific age groups and designated management systems in the US.
       William Kvasnicka, United States

14:30  CS1.3  Documentation and prevalence of parasite resistance in U.S. cattle using the faecal egg count reduction test according to a scientific panel consensus protocol presented at the 2007 AAVP meeting.
       Donald Bliss, United States

14:00-15:30  CS2  PHARMACOLOGY & PHARMACOKINETICS
Session: Concurrent Session  (CS)
Session Room: Telus 104-105-106
Session Chair: Michel Alvinerie, France

14:00  CS2.1  Disposition of eprinomectin in P-gp deficient mice: a comparison with ivermectin and moxidectin
       Anne Lespine, France

14:15  CS2.2  The influence of ketoconazole and pluronic 85 on the efficacy and pharmacokinetics of ivermectin in lambs infected with anthelmintic resistant Haemonchus contortus
       Dave Bartley, United Kingdom

14:30  CS2.3  Measurement of ivermectin concentrations in the host gastrointestinal tissues and in Haemonchus contortus recovered from infected lambs. Comparison between subcutaneous and oral treatments.
       Adrian Lifschitz, Argentina

14:00-15:15  CS3  DIAGNOSIS
Session: Concurrent Session  (CS)
Session Room: Glen 201-202
Session Chair: Bruno Gottstein, Switzerland

14:00  CS3.1  Serological diagnosis of bovine besnoitiosis: development of an indirect-ELISA and a comparative study with a commercial ELISA
       Gema Alvarez-García, Spain

14:15  CS3.2  First in-vitro isolation of Besnoitia besnoiti from chronically infected cattle in Germany
       Gereon Schares, Germany

14:30  CS3.3  Novel 18S rRNA sequence of Hepatozoon species in wildlife from the southern United States
       Kelly Allen, United States

14:45  CS3.4  Modification of a commercial Toxoplasma gondii IgG ELISA for use in multiple animal species
       John Schaefer, United States

15:00  CS3.5  Quantitative detection of Sarcocystis aucheniae in naturally infected alpacas by Real Time PCR
       Armando Hung, Peru

14:00-15:00  CS4  EQUINE PARASITISM
Session: Concurrent Session  (CS)
Session Room: Glen 203-204
Session Chair: Elizabeth Abbott, United Kingdom

14:00  CS4.1  Fatal Halicephalobus gingivalis (Nematoda) brain infection in an Icelandic horse
       Matthias Eydal, Iceland

14:15  CS4.2  The grazing horse gets the worm: The use of coprological and coproantigen ELISA analyses for diagnosing Anoplocephala perfoliata infection in southern Alberta horses
       Sara Skotarek, Canada

14:30  CS4.3  Inaccurate diagnosis between Anoplocephala perfoliata and A. magna in naturally infected horses.
       Aránzazu Meana, Spain
<table>
<thead>
<tr>
<th>Time</th>
<th>CS4.4</th>
<th>Parasitological and serological diagnosis of Trypanosoma evansi in experimentally inoculated donkeys</th>
<th>Mosaad Hilali, Egypt</th>
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<tr>
<td>15:15</td>
<td>CS6.6</td>
<td>Exploring the potential for Australian native perennial shrubs to have an anthelmintic role in livestock grazing systems in southern Australia</td>
<td>Andrew Kotze, Australia</td>
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### 14:00-15:30 CS5 TRICHINELLA & FOOD SAFETY SYMPOSIUM:

**Session: Concurrent Session (CS)**

**Session Room:** Glen 205

**Session Chair:** Ray Gamble, United States

<table>
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<tr>
<th>Time</th>
<th>CS5.1</th>
<th>An overview of Trichinella certification</th>
<th>Ray Gamble, United States</th>
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<tbody>
<tr>
<td>14:00</td>
<td>CS5.2</td>
<td>Quality control in on-farm auditing: Veterinary qualification training and producer education</td>
<td>David Pyburn, United States</td>
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<td>14:15</td>
<td>CS5.3</td>
<td>Extending certification to other pathogens: The case for Toxoplasma in swine</td>
<td>Dolores Hill, United States</td>
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<td>14:35</td>
<td>CS5.4</td>
<td>A pork industry perspective on certification: Impact on exposure to other swine parasites and bacterial pathogens</td>
<td>Jaap Boes, Denmark</td>
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<td>15:15</td>
<td>CS5.5</td>
<td>The EU perspective on risk management for Trichinella and other zoonotic pathogens</td>
<td>Karsten Noeckler, Germany</td>
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### 14:00-15:30 CS6 NON-PHARMA CONTROL

**Session: Concurrent Session (CS)**

**Session Room:** Glen 206

**Session Chair:** Robin McAnulty, New Zealand

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<tr>
<th>Time</th>
<th>CS6.1</th>
<th>Effects of incremental protein supply on lactational performance and resistance to Nippostrongylus brasiliensis in lactating rats</th>
<th>Jos Houdijk, United Kingdom</th>
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<tr>
<td>14:00</td>
<td>CS6.2</td>
<td>Nutritional sensitivity of periparturient resistance to parasites in sheep may differ between parasite species</td>
<td>Jos Houdijk, United Kingdom</td>
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<td>CS6.3</td>
<td>Consequences of ewe protein nutrition and grazing on chory (Cichorium intybus) on animal performance and parasitism</td>
<td>Alemayehu Kidane, United Kingdom</td>
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<td>CS6.4</td>
<td>New Zealand native plants for parasite control</td>
<td>Marion J ohnson, New Zealand</td>
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<td>CS6.5</td>
<td>Evaluation of three in vitro bioassays for measuring the anthelmintic activity of a condensed tannin extract from Sericea lespedeza</td>
<td>Sue Howell, United States</td>
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### 15:30 Refreshment Break

**Exhibit Hall CD**

### 16:00-17:15 CS8 PHARMACOLOGY & PHYSIOLOGY

**Session: Concurrent Session (CS)**

**Session Room:** Exhibit Hall E

**Session Chair:** Georg von Samson-Himmelstjerna, Germany

<table>
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<tr>
<th>Time</th>
<th>CS8.1</th>
<th>Identification of Monepantel as the first anthelmintic drug development candidate from the amino-acetonitrile derivatives (AADs)</th>
<th>Ronald Kaminsky, Switzerland</th>
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<td>16:00</td>
<td>CS8.2</td>
<td>Haemonchus contortus acetylcholine receptors of the DEG-3 subfamily and their role in sensitivity to Monepantel</td>
<td>Lucien Rufener, Switzerland</td>
</tr>
<tr>
<td>16:15</td>
<td>CS8.3</td>
<td>HcGGR3: A dopamine-gated ion channel subunit in Haemonchus contortus.</td>
<td>Vijayaraghava Rao, Canada</td>
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</table>
16:45 CS8.4 Isolation and electrophysiological characterization of two GABA receptor subunits from the parasitic nematode Haemonchus contortus
Salma Siddiqui, Canada

17:00 CS8.5 Measurement of cytosolic calcium in Ascaris suum muscle during maintained levamisole application and desensitization
Richard Martin, United States

16:00-17:15 CS9- NON-PHARMA CONTROL
Session: Concurrent Session (CS)
Session Room: Telus 104 105 106
Session Chair: Andrew Kotze, Australia

16:00 CS9.1 The potential of copper oxide wire particles to control Haemonchus contortus in indigenous goats owned by small-scale farmers in South Africa
Andrea Spickett, South Africa

16:15 CS9.2 Efficacy of copper oxide wire particles against gastrointestinal nematodes in sheep and goats
Thomas Terrill, United States

16:30 CS9.3 Evaluation of copper oxide wire particles in a feed pellet to control gastrointestinal nematodes in sheep and goats
Thomas Terrill, United States

16:45 CS9.4 The effect of dietary inclusion of dried chicory roots on Oesophagostomum spp. infections in naturally infected sows
Helena Mejer, Denmark

17:00 CS9.5 Counterintuitive temperature-driven effects of climate change on gastrointestinal nematodes
Jan Dijk, United Kingdom

16:00-17:15 CS10 GENOMICS/FUNCTIONAL GENOMICS
Session: Concurrent Session (CS)
Session Room: Glen 201-202
Session Chair: Tim Geary, Canada

16:00 CS10.1 Molecular characterization of Theileria species of the Africa Buffalo (Syncerus caffer) by 18S rRNA Gene sequence analysis
Mamohale Chaisi, South Africa

16:15 CS10.2 The detection of Babesia spp. in domestic felids using DNA probes and phylogenetic analysis
Bané Penzhorn, South Africa

16:30 CS10.3 The obligate intracellular parasite Toxoplasma gondii secretes a soluble phosphatidylinerse decarboxylase
Nishith Gupta, Germany

16:45 CS10.4 Characterization of the thrombospondin related anonymous protein 2 (TRAP 2) of the protozoan Neospora caninum in the cell invasion process
Luiz Miguel Pereire, Brazil

17:00 CS10.5 In silico analysis of the cyclophilin repertoire of apicomplexan parasites
Jürgen Krücken, Germany

16:00-17:15 CS11 TRICHINELLA EPIDEMIOLOGY
Session: Concurrent Session (CS)
Session Room: Glen 203 204
Session Chair: Alvin Gajadhar, Canada

16:00 CS11.1 Survey on porcine trichinellosis in Nepal diagnosed by ELISA and pepsin digestion methods
Durga Joshi, Nepal

16:15 CS11.2 A survey on Trichinella infection of wild and domestic animals in Switzerland
Caroline Frey, Switzerland

16:30 CS11.3 Surveillance of Trichinella infection in wild boar in the United States
Ray Gamble, United States

16:45 CS11.4 Cessation of Trichinella spiralis transmission among scavenging mammals after the removal of infected pigs from a poorly managed farm
Dolores Hill, United States

17:00 CS11.5 Towards a risk-based Trichinella surveillance in Denmark
Jaap Boes, Denmark

16:00-17:15 CS12 ECTOPARASETES
Session: Concurrent Session (CS)
Session Room: Glen 205
Session Chair: Dwight Bowman, United States

16:00 CS12.1 Developmental stages of fleas on resting places of cats and dogs
Dietmar Hamel, Germany

16:15 CS12.2 Determining the susceptibility of cat flea populations to insecticides
Michael Rust, United States

16:30 CS12.3 Cat flea susceptibility to Imidacloprid: Review of an 8-year monitoring initiative
Byron Blagburn, United States

16:45 CS12.4 Skin distribution of Imidacloprid by microautoradiography following topical administration to beagle dogs
Robert Arther, United States

17:00 CS12.5 Evaluation of larvicidal activity of eight essential oils against Stomoxys calcitrans in La Réunion Island (Indian Ocean)
Philippe Jacquiet, France
16:00-17:15  **CS13 MODELING**

**Session:** Concurrent Session (CS)
**Session Room:** Glen 206
**Session Chair:** Allan Roepstorff, Denmark

- **16:00** **CS13.1** In silico exploration of gastro-intestinal parasite induced anorexia in sheep and its impacts on infestation levels and lamb growth rate
  
  Yan Laurenson, United Kingdom

- **16:15** **CS13.2** A risk management approach to using a new anthelmintic in Australian grazing management systems
  
  Robert Dobson, Australia

- **16:30** **CS13.3** Managing a new sheep anthelmintic in New Zealand
  
  Barry Hosking, Australia

- **16:45** **CS13.4** Evaluation of a predictive computer model for use in Canadian sheep flocks
  
  Alessia Guthrie, Canada

- **17:00** **CS13.5** Characterization of *Rickettsia* spp. in *Amblyomma americanum*
  
  Stephanie Heise, United States

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**17:25-18:25  SY2 BAYER SYMPOSIUM**

**Session:** Symposium (SY)
**Session Room:** Exhibit Hall E

Bayer Animal Health is one of the world’s leading research-based manufacturers of veterinary solutions. The Animal Health Division of Bayer Health Care has been successfully supplying its customers all over the world with a wide range of innovative, scientifically proven, effective and safe veterinary solutions for more than 90 years.

The theme of this year’s WAAVP conference reflects well the importance of climate change in conjunction with veterinary parasitology. As the environment undergoes rapid change, so too does the distribution of parasites and the pathogens they transmit, causing diseases both in animals and humans. Thus we in Bayer Animal Health, as a pharmaceutical company with a long history and core expertise in parasiticides, are a long term partner of WAAVP.

Bayer has strong interest in supporting its own parasitology research to find new solutions and products. Our contribution into this direction will be reflected by the Bayer Animal Health Corporate symposium, highlighting some of our scientific partnerships and the investigation taking place across the spectrum of veterinary parasitology. We cordially invite you all to the Bayer Symposium!

The topics and speakers are:

- **The efficacy of emodepside plus praziquantel flavoured tablets (Profender® tablets for dogs) against nematode and cestode infection in dogs**
  
  Gertraut Altreuther, Iris Schroeder, Annette Schimmel, Sam Charles, Thomas Bach, Klemens Krieger

- **Larval development of *Toxocara canis* in dogs**
  
  Thomas Schnieder

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**19:30 PRESIDENT’S RECEPTION**

**Heritage Park**

The President’s Reception begins with a 15-minute transfer to Heritage Park where guests will be carried back in time and discover how the West was won. The early 1900’s come to life at the park as guests stroll the grounds and experience Canada’s history from the beginnings of the Northwest Mounted Police Barracks known today as the Royal Canadian Mounted Police. Traditional dress and costumed town folk will provide insight as guests stroll the grounds. For full enjoyment of this venue, grounds and spectacular views guests are encouraged to wear comfortable shoes.

Motor coach will depart from the Convention Centre, lower level of the South building, - starting at 19:00. Last coach will depart the convention Center at 20:00 don’t be left behind.
Tuesday, August 11, 2009

08:00-09:00 POSTER SESSION 1
Session: PO1
Location: Exhibit Hall CD
Please note that details on poster speakers and abstracts appear following the program summary (pg 23)

TOPICS
Aquaculture – Sea lice • Babesiosis / Anaplasmosis
• Control • Diagnosis/PCR • Drug Resistance • Epidemiology
• Food Borne Parasites • Immunology / Vaccines
• Leishmaniasis • Non-Pharma Control • Other • Parasite Physiology, Pharmacology, Pharmacokinetics • Targeted / Strategic Control

09:00-10:00 PL3 PLENARY 3
Session: Plenary Session (PL)
Session Room: Exhibit Hall E
Session Chair: Terry Spithill, Australia
09:00 PL3.1 Future of the animal health industry at a time of food crisis
W.C. Campbell, United States
09:30 PL3.2 Vectors in a changing environment
Sarah Randolph, United Kingdom

10:00-11:00 SY3 FORTH DODGE / WYETH SYMPOSIUM
Too Hot to Resist: Managing the evolving Cyathostomin challenge
Session: Symposium (SY)
Session Room: Exhibit Hall E
Symposium Description: The Symposium is intended to provide a forum for sharing new information about cyathostome (small strongyle) infections in horses. The diagnosis and control of small strongyles in horses have been the subjects of much discussion and scientific endeavor. The life cycle of the parasites and the limited number of chemotherapeutics available have made management of cyathostomiasis challenging. During this symposium, three eminent speakers will present valuable information about recent work to improve diagnostic abilities, employing improved management techniques and understanding the evolving anthelmintic resistance profiles of this group of nematodes. Ultimately, the objective is to allow us to make educated decision that enable us to preserve the health of horses in our care.

Speakers:
Ray M. Kaplan, DVM, Ph.D., Dipl. EVPC, College of Veterinary Medicine, University of Georgia, USA - In Vitro Diagnosis of Anthelmintic Resistance in Equine Parasites: Do we really have any useful assays?
Georg Von Samson-Himmelstjerna, Dr. Med. Vet., Dipl. EVPC, University of Veterinary Medicine, Hannover, Germany - Effects of Chemoprophylaxis, Farm and Pature Management on Parasite Prevalence on German and Italian Horse Farms
Donato Traversa, DVM, Ph.D., Faculty of Veterinary Medicine, University of Teramo, Italy - Comparative Field Evaluation of the Efficacy of Fenbendazole, Pyrantel Pamoate, Ivermectin and Moxidectin Against Cyathostomin Infections in Italy, UK and Germany.

11:00 Refreshment Break
Exhibit Hall CD

11:30-12:30 CS14 NEOSPORA
Session: Concurrent Session (CS)
Session Room: Exhibit Hall E
Session Chair: Andrew Thompson, Australia
11:30 CS14.1 Microsatellite analysis of Neospora caninum from bovine foetuses and dogs in Germany
Gereon Schares, Germany
11:45 CS14.2 Molecular evidence of Neospora caninum in arctic fox (Vulpes lagopus) from Alaska
Stacey Elmore, United States
12:00 CS14.3 Seroprevalence of Neospora caninum in Grey wolves in Sweden
Camilla Björkman, Sweden
12:15 CS14.4 Analysis of BoLA alleles by PCR and sequencing in serum samples from Quebec Holstein cattle with known Neospora caninum infection status and reproductive outcome
Timothy Geary, Canada

11:30-12:30 CS15 ECTOPARASITES
Session: Concurrent Session (CS)
Session Room: Telus 104-105-106
Session Chair: Kate Mounsey, Australia
11:30 CS15.1 Identification of pro-inflammatory factors from the sheep scab mite, Psoroptes ovis
David Frew, United Kingdom
11:45 CS15.2 Sheep scab: An integrated genomic approach to the host parasite interaction
Stewart Burgess, United Kingdom
12:00 CS15.3 Comparison of microscopical examination of skin scrapings and ELISA for the diagnosis of sheep scab (Psoroptes ovis)
Peter Bates, United Kingdom
12:15 CS15.4 FlyBoss: a new blowfly strike management website
Brown Besier, Australia
<table>
<thead>
<tr>
<th>Time</th>
<th>Session/Workshop</th>
<th>Topic</th>
<th>Speaker</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:30</td>
<td><strong>CS16 WORKSHOP RESISTANCE &amp; CONTROL</strong></td>
<td>A practitioner's perspective in resistance management of cattle nematodes</td>
<td>Miguel E. Mejía, Argentina</td>
<td>Glen 201-202</td>
</tr>
<tr>
<td>11:50</td>
<td><strong>CS16</strong></td>
<td>Current best practice for routine on farm anthelmintic efficacy monitoring</td>
<td>Georg von Samson-Himmelstjerna, Germany</td>
<td>Glen 201-202</td>
</tr>
<tr>
<td>12:10</td>
<td><strong>CS16</strong></td>
<td>Situation of the extension on parasite control and resistance. Programs, diffusion, and “real” adoption by farmers</td>
<td>Marcelo Molento, Brazil</td>
<td>Glen 201-202</td>
</tr>
<tr>
<td>12:00</td>
<td><strong>CS18.3</strong></td>
<td>Structure of strongylid communities of wild and domestic equids in Ukraine and modern methods of parasite control</td>
<td>Tetyana Kuzmina, Ukraine</td>
<td>Glen 206</td>
</tr>
<tr>
<td>12:15</td>
<td><strong>CS18.4</strong></td>
<td>Seasonal variation in development and survival of Parascaris equorum eggs in pasture or on gravel surface</td>
<td>Kristina Lindgren, Sweden</td>
<td>Glen 206</td>
</tr>
<tr>
<td>11:30</td>
<td><strong>CS17 COMPANION ANIMAL SYMPOSIUM</strong></td>
<td>ESCCAP: The role of an INGO (International Non-governmental Organisation) in contributing to the understanding and control of companion animal parasites in a changing landscape.</td>
<td>Maggie Fisher, United Kingdom</td>
<td>Glen 203-204</td>
</tr>
<tr>
<td>11:30</td>
<td><strong>CS19</strong></td>
<td>Effect of maize supplementation and natural nematode infection on fodder selection and consumption by hair sheep lambs under a mixed grass/browse pasture</td>
<td>Felipe Torres-Acosta, Mexico</td>
<td>Glen 206</td>
</tr>
<tr>
<td>11:45</td>
<td><strong>CS19.2</strong></td>
<td>Genes that affect faecal egg count (FEC) for gastrointestinal parasites in lambs</td>
<td>Jon Hickford, New Zealand</td>
<td>Glen 206</td>
</tr>
<tr>
<td>12:00</td>
<td><strong>CS19.3</strong></td>
<td>Epidemiology of Cryptosporidium isolates from Swedish dairy cattle</td>
<td>Charlotte Silverlås, Sweden</td>
<td>Glen 206</td>
</tr>
<tr>
<td>12:15</td>
<td><strong>CS19.4</strong></td>
<td>Evaluation of efficacy of Baycox® (toltrazuril) for improvement of post-weaning gut health in a European pig herd</td>
<td>Steven McOrist, United Kingdom</td>
<td>Glen 206</td>
</tr>
<tr>
<td>11:30</td>
<td><strong>CS20 BESNOITIA SYMPOSIUM</strong></td>
<td>Epidemiology of bovine besnoitiosis in France</td>
<td>Phillipe J acquiet, France</td>
<td>Glen 209</td>
</tr>
<tr>
<td>11:45</td>
<td><strong>CS20.2</strong></td>
<td>Bovine besnoitiosis in Portugal</td>
<td>Helder Cortes, Portugal</td>
<td>Glen 209</td>
</tr>
<tr>
<td>11:55</td>
<td><strong>CS20.3</strong></td>
<td>Laboratory diagnosis of bovine besnoitiosis</td>
<td>Bruno Gottstein, Switzerland</td>
<td>Glen 209</td>
</tr>
<tr>
<td>12:05</td>
<td><strong>CS20.4</strong></td>
<td>Besnoitiosis: A new emerging cattle disease in Germany?</td>
<td>Gereon Schares, Germany</td>
<td>Glen 209</td>
</tr>
<tr>
<td>12:15</td>
<td><strong>CS20.5</strong></td>
<td>Present situation of bovine besnoitiosis in Spain</td>
<td>Luis Ortega-Mora, Spain</td>
<td>Glen 209</td>
</tr>
<tr>
<td>12:30</td>
<td><strong>Lunch Break</strong></td>
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<td>Exhibit Hall CD</td>
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</table>

**Notes:**
- **CS16** Workshop on Resistance & Control
- **CS17** Companion Animal Symposium
- **CS18** Equine Parasites
- **CS19** Epidemiology & Control
- **CS20** Besnoitia Symposium
### 14:00-15:30 CS21 DRUG RESISTANCE

**Session:** Concurrent Session (CS)  
**Session Room:** Exhibit Hall E  
**Session Chair:** Mike Taylor, United Kingdom

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Speaker, Country</th>
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</thead>
<tbody>
<tr>
<td>14:00</td>
<td>CS21.1</td>
<td>Ivermectin resistance in cyathostomes in four donkeys herds at the Donkey Sanctuary, UK.</td>
<td>Andrew Trawford, United Kingdom</td>
</tr>
<tr>
<td>14:15</td>
<td>CS21.2</td>
<td>Phenotypic and genotypic characterization of benzimidazole susceptible and resistant isolates of Haemonchus contortus</td>
<td>Marian Varady, Slovakia</td>
</tr>
<tr>
<td>14:30</td>
<td>CS21.3</td>
<td>Standardisation, evaluation and field use of the LMIT for cattle parasitic nematodes</td>
<td>Janina Demeler, Germany</td>
</tr>
<tr>
<td>14:45</td>
<td>CS21.4</td>
<td>Faecal egg count reduction test (FECRT): Arithmetic or geometric means?</td>
<td>Robert Dobson, Australia</td>
</tr>
<tr>
<td>15:00</td>
<td>CS21.5</td>
<td>Use of Box-Cox transformation technique for fitting faecal egg count observations in a cattle population</td>
<td>Louis Gasbarre, United States</td>
</tr>
<tr>
<td>15:15</td>
<td>CS21.6</td>
<td>Monitoring the efficacy of anthelmintic drugs in small ruminants in the State of São Paulo, Brazil: preliminary results</td>
<td>Marcelo Molento, Brazil</td>
</tr>
</tbody>
</table>

### 14:00-15:30 CS22 PHARMACOLOGY

**Session:** Concurrent Session (CS)  
**Session Room:** Telus 104-105-106  
**Session Chair:** Anne Lespine, France

<table>
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<tr>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>14:00</td>
<td>CS22.1</td>
<td>Use of a rodent model for the optimization and characterization of a novel class of anthelmintics</td>
<td>Sandra Schorderet Weber, Switzerland</td>
</tr>
<tr>
<td>14:15</td>
<td>CS22.2</td>
<td>The safety of ZOLVIX® (Monepantel), an amino-acetonitrile derivative, when administered to sheep</td>
<td>Andrew Little, Switzerland</td>
</tr>
<tr>
<td>14:30</td>
<td>CS22.3</td>
<td>Efficacy and safety of ZOLVIX® (Monepantel) in sheep: A European field study</td>
<td>Matthew Jones, United Kingdom</td>
</tr>
<tr>
<td>14:45</td>
<td>CS22.4</td>
<td>Potentiation of the levamisole depolarization by the neuropeptide AF2 in muscle of Ascaris suum</td>
<td>Sreekanth Puttachary, United States</td>
</tr>
<tr>
<td>15:00</td>
<td>CS22.5</td>
<td>Cyclooctadepsipetides - tracking the mode of action</td>
<td>Nina Krüger, Germany</td>
</tr>
<tr>
<td>15:15</td>
<td>CS22.6</td>
<td>Meta-analyses of the effects of halofuginone against calf cryptosporidiosis</td>
<td>Charlotte Silverlås, Sweden</td>
</tr>
</tbody>
</table>

### 14:00-15:30 CS23 PARASITE CONTROL

**Session:** Concurrent Session (CS)  
**Session Room:** Glen 201-202  
**Session Chair:** Ryan O’Handley, Australia

<table>
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<tr>
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<tbody>
<tr>
<td>14:00</td>
<td>CS23.1</td>
<td>Epidemiology of ovine coccidia under conventional sheep rearing conditions and control by toltrazuril (Baycox®) a multicentre study in central Europe</td>
<td>Berit Bangoura, Germany</td>
</tr>
<tr>
<td>14:15</td>
<td>CS23.2</td>
<td>Efficacy of toltrazuril and diclazuril against ovine coccidiosis in housed lambs</td>
<td>Hans-Christian Mundt, Germany</td>
</tr>
<tr>
<td>14:30</td>
<td>CS23.3</td>
<td>Toltrazuril treatment of congenitally acquired Neospora caninum-infection in newborn mice</td>
<td>Hans-Peter Fagerholm, Finland</td>
</tr>
<tr>
<td>14:45</td>
<td>CS23.4</td>
<td>Comparative efficacy of toltrazuril and diclazuril against pasture coccidiosis in lambs in Norway</td>
<td>Louis Gasbarre, United States</td>
</tr>
<tr>
<td>15:00</td>
<td>CS23.5</td>
<td>Potential of controlling Henneguya schokkei (Myxozoa) in cultivated whitefish</td>
<td>Hans Christian Mundt, Germany</td>
</tr>
<tr>
<td>15:15</td>
<td>CS23.6</td>
<td>Evaluation of the efficacy of Vectra 3D following topical administration to dogs between 21-55 pounds of body weight infected with adult Lone Star ticks (Amblyomma americanum).</td>
<td>Michael Coyne, United States</td>
</tr>
</tbody>
</table>

### 14:00-15:30 CS24 EQUINE PARASITES

**Session:** Concurrent Session (CS)  
**Session Room:** Glen 203-204  
**Session Chair:** Kristina Lindgren, Sweden

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Speaker, Country</th>
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</thead>
<tbody>
<tr>
<td>14:00</td>
<td>CS24.1</td>
<td>A larval migration assay for assessing macrocyclic lactone sensitivity in equine cyathostomin populations</td>
<td>Claire McArthur, United Kingdom</td>
</tr>
<tr>
<td>14:15</td>
<td>CS24.2</td>
<td>The effect of sample handling and storage on the accuracy and repeatability of equine strongyle faecal egg counts</td>
<td>Ulla Andersen, Denmark</td>
</tr>
<tr>
<td>14:30</td>
<td>CS24.3</td>
<td>Determination of ivermectin strongyle efficacy and egg reappearance period (ERP) on Danish horse farms</td>
<td>Mette Larsen, Denmark</td>
</tr>
<tr>
<td>14:45</td>
<td>CS24.4</td>
<td>Prevalence of Strongylus vulgaris and pyrantel resistant cyathostomins on Danish horse farms using selective therapy</td>
<td>Martin Nielsen, Denmark</td>
</tr>
<tr>
<td>15:00</td>
<td>CS24.5</td>
<td>Parasite control programs for horses: Is an integrated approach feasible?</td>
<td>Elizabeth Abbott, United Kingdom</td>
</tr>
</tbody>
</table>

### 14:00-15:30 CS25 EQUINE PARASITES

**Session:** Concurrent Session (CS)  
**Session Room:** Glen 203-204  
**Session Chair:** Kristina Lindgren, Sweden

<table>
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<tr>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>14:00</td>
<td>CS25.1</td>
<td>A larval migration assay for assessing macrocyclic lactone sensitivity in equine cyathostomin populations</td>
<td>Claire McArthur, United Kingdom</td>
</tr>
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<td>14:15</td>
<td>CS25.2</td>
<td>The effect of sample handling and storage on the accuracy and repeatability of equine strongyle faecal egg counts</td>
<td>Ulla Andersen, Denmark</td>
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<td>CS25.4</td>
<td>Prevalence of Strongylus vulgaris and pyrantel resistant cyathostomins on Danish horse farms using selective therapy</td>
<td>Martin Nielsen, Denmark</td>
</tr>
<tr>
<td>15:00</td>
<td>CS25.5</td>
<td>Parasite control programs for horses: Is an integrated approach feasible?</td>
<td>Elizabeth Abbott, United Kingdom</td>
</tr>
</tbody>
</table>
15:15 CS24.6 Cyathostome nematodes (Nematoda-Cyathostominae) of horses: Ecology of larvae on grass (Brachiaria humidicola) in the seasons in Seropédica, RJ, Brazil. Lurdes Rodrigues, Brazil

14:00-15:30 CS25- FOOD-BORNE PARASITES
Session: Concurrent Session (CS)
Session Room: Glen 209
Session Chair: Ray Gamble, United States

14:00 CS25.1 Evaluation of polyclonal antibodies for the detection and isolation of coccidian oocysts of public health importance
Batol Al-Adhami, Canada

14:15 CS25.2 Pathogenesis of toxoplasmosis and Toxoplasma gondii null result genotype
Jitender Dubey, United States

14:30 CS25.3 Expulsion and muscle larvae burden of Trichinella nativa in rats
Albert Marinculic, Croatia

14:45 CS25.4 Assessment of the economic damages caused by hydatidiosis in one-humped camels, Iran, Khorasan Province
Vida Pirzamani, Iran

15:00 CS25.5 Localization of host-protective onchosphere antigens of Taenia ovis
Abdul Jabbar, Australia

15:15 CS25.6 Development of a new indirect ELISA for the detection of Trichinella spiralis in pigs
Sandrine Lacour, France

14:00-15:30 CS27 ZOONOSES
Session: Concurrent Session (CS)
Session Room: Glen 209
Session Chair: J. Jepkins, Canada

14:00 CS27.1 Environmental contamination with Toxocara spp.: towards quantitative epidemiology?
Eric Morgan, United Kingdom

14:15 CS27.2 Building community and laboratory capacity for monitoring and managing parasitic zoonoses in northern Saskatchewan, Canada
Emily J. Enkins, Canada

14:30 CS27.3 Prevalence and molecular characterization of Echinococcosis in stray dogs in Central Sudan
Rihab Omer, Germany

14:45 CS27.4 Taenia ecology and competition in people, pigs and dogs in Southeast Asia
Andrew Thompson, Australia

15:00 CS27.5 Prevalence of visceral Leishmaniasis in human population of Siraha District in Nepal
Durga Joshi, Nepal

15:15 CS27.6 Effects of high temperatures on sporulation and infectivity of Toxoplasma gondii oocysts in water
Bretislav Koudela, Czech Republic

15:30 Refreshment Break
Exhibit Hall CD

16:00-17:15 CS28 DRUG RESISTANCE
Session: Concurrent Session (CS)
Session Room: Exhibit Hall E
Session Chair: Gerald Coles, United Kingdom

16:00 CS28.1 Parasitic gastrointestinal nematode control practices in US cow-calf operations - insights from the USDA National Animal Health Monitoring System
Lora Ballweber, United States

16:15 CS28.2 A representative evaluation of the parasites present in the US cow-calf population.
Bert Stromberg, United States

16:30 CS28.3 Effectiveness of current anthelmintic treatment programs on reducing faecal egg counts in US cow-calf operations
Louis Gasbarre, United States

16:45 CS28.4 Efficacy determination of several, non-generic cattle anthelmintics by way of a faecal egg count reduction test combined with a control trial
Tom Yarzinski, United States

17:00 CS28.5 Field evaluation of methods for detecting multiple resistance to anthelmintics in sheep nematodes in England and Wales
Mike Taylor, United Kingdom
16:00-17:15 CS29 VACCINES
Session: Concurrent Session (CS)
Session Room: Telus 104-105-106
Session Chair: Peter Geldhoff, Belgium

16:00  CS29.1 Vaccination against Haemonchus contortus with a recombinant antigen cocktail.
       Elise Cachat, United Kingdom

16:15  CS29.2 Twists and turns en route to a vaccine for Haemonchus contortus.
       David Smith, Great Britain

16:30  CS29.3 The effects of a recombinant vaccine on natural Fasciola hepatica infection in cattle
       Olwen Golden, Ireland

16:45  CS29.4 Trade-offs between immune responses, pathophysiology and establishment of Ostertagia ostertagi in artificially-infected calves
       Andrew Forbes, France

17:00  CS29.5 Vaccination against liver fluke in sheep with recombinant leucine aminopeptidase induces high levels of protection using different adjuvants
       Carlos Carmona, Uruguay

16:00-17:15 CS30 EPIDEMIOLOGY
Session: Concurrent Session (CS)
Session Room: Glen 201-202
Session Chair: Bill Pomeroy, New Zealand

16:00  CS30.1 A survey to examine the species of ovine nematodes present on farms in the UK
       Yvonne Bartley, United Kingdom

16:15  CS30.2 Population genetics of parasitic nematodes of UK sheep
       Elizabeth Redman, United Kingdom

16:30  CS30.3 Selective breeding of Scottish Cashmere goats for increased resistance to gastrointestinal nematodes
       David McBean, United Kingdom

16:45  CS30.4 Effect of different anthelmintic treatment strategies on naturally acquired Nematodirus infections in sheep
       Alison Donnan, United Kingdom

17:00  CS30.5 Period prevalence and risk factors of bovine Fasciolosis in five districts of Punjab Province, Pakistan
       Muhammad Khan, Pakistan

16:00-17:15 CS31 DIAGNOSIS
Session: Concurrent Session (CS)
Session Room: Glen 203-204
Session Chair: Joze Vercreusse, Belgium

16:00  CS31.1 Digestive lysozyme concentrations in blood: An alternative to assay of serum pepsinogen?
       Ian Scott, New Zealand

16:15  CS31.2 Measurement of Ostertagia ostertagi and Fasciola hepatica-specific antibody levels by ELISA applied on meat juice and associations with carcass parameters
       Johannes Charlier, Belgium

16:30  CS31.3 Evaluation of endoscopy as an alternative to necropsy for worm burden quantification
       Alice Lee, United States

16:45  CS31.4 Intercalibration of a concentration McMaster technique between eight European laboratories
       Helena Mejre, Denmark

17:00  CS31.5 Detection of the nematode Angiostrongylus vasorum in definitive and intermediate hosts using real-time PCR
       Ryan Jeffries, United Kingdom

16:00-17:15 CS32- GENOMICS
Session: Concurrent Session (CS)
Session Room: Glen 205
Session Chair: Philip Skuce, United Kingdom

16:00  CS32.1 Variation in the genome of Haemonchus contortus
       Robin Beech, Canada

16:15  CS32.2 Exploring the transcriptome of Haemonchus contortus during its transition to parasitism using a deep-sequencing approach
       Cinzia Cantacessi, Australia

16:30  CS32.3 Transcriptional differences between infective third-stage larvae and in vitro percutaneously migrated larvae of Ancylostoma caninum
       Christina Strube, Germany

16:45  CS32.4 Genetic and genomic approaches to study anthelmintic resistance in Haemonchus contortus
       John Gilteard, Canada

17:00  CS32.5 C. elegans as a model system for analysing parasite gene function
       Eileen Devaney, Great Britain

16:00-17:15 CS33- TRICHINELLA/BIOLOGY
Session: Concurrent Session (CS)
Session Room: Glen 206
Session Chair: Karsten Noeckler, Germany

16:00  CS33.1 Freezing resistance of Trichinella muscle larvae in pork after long lasting infections
       Sandrine Lacour, France

16:15  CS33.2 Freeze tolerance characteristics of Trichinella nativa (T2) muscle larvae from frozen black bear meat following sequential passages between mice and cats
       Lorry Forbes, Canada
Wednesday, August 12, 2009

08:00-09:00 POSTER SESSION 2
Session: PO2
Location: Exhibit Halls CD

Please note that details on poster speakers and abstracts appear following the program summary (pg 26).

TOPICS
African Trypanosomes • Diagnosis/PCR • Drug Resistance
Ectoparasites • Equine Par • Epidemiology • Heartworm
Non-Pharma Control • Global Warming / Parasite, Endangered Species • Parasite Physiology, Pharmacology, Pharmacokinetics
Parasite Genomic/Proteomics • Zoonoses

09:00-10:30 CS35 DRUG RESISTANCE
Session: Concurrent Session (CS)
Session Room: Exhibit Hall E
Session Chair: Tom Yaswinski, United States

09:00 CS35.1 Assessment of the impact of metabolic inhibitors on the drug sensitivity of a triclabendazole (TCBZ)-resistant isolate of Fasciola hepatica using TEM.
Ian Fairweather, United Kingdom

09:15 CS35.2 Do drug efflux pumps play a role in the resistance of Fasciola hepatica to triclabendazole?
Ian Fairweather, United Kingdom

09:30 CS35.3 Adult triclabendazole-resistant Fasciola hepatica: morphological responses to in vivo treatment with the synthetic 1,2,4-trioxolane, OZ78 in the rat model.
James O’Neill, United Kingdom

09:45 CS35.4 SEM observations on the impact of metabolic inhibitors on triclabendazole (TCBZ) action against a TCBZ-resistant and -susceptible isolate of Fasciola hepatica.
Catherine Devine, United Kingdom

10:00 CS35.5 Multiple anthelmintic resistance in grazing cattle of Argentina: reversion evidences throughout the use of a three years rational control programme
Pedro Steffan, Argentina

10:15 CS35.6 Longitudinal monitoring of gastrointestinal parasite burdens on an organic dairy farm.
Abigail Jackson, United Kingdom

16:30 CS33.3 Trichinella spp. in terrestrial Arctic carnivores from Nunavut, Canada
Luigi Torretti, Canada

16:45 CS33.4 Wildlife survey for Trichinella species in mainland Australia
Leigh Cuttell, Australia

17:00 CS33.5 Regional Trichinella infection foci in Romania: A permanent threat to human health
Radu Blaga, Romania

16:00-17:00 CS34 MODELING
Session: Concurrent Session (CS)
Session Room: Glen 209
Session Chair: Barry Hosking, Australia

16:00 CS34.1 Mapping risk foci for endemic sheep scab
Hannah Rose, United Kingdom

16:15 CS34.2 Age is more important than infection dose in determining the outcome of Isospora suis infections in suckling piglets
Hanna Worliczek, Austria

16:30 CS34.3 Fasciola hepatica and Galba truncatula in Ireland
Theo de Waal, Ireland

16:45 CS34.4 Interactions between Trichuris suis and Oesophagostomum dentatum in pigs
Allan Roepstorff, Denmark

17:25-18:25 SY4 MERAL SYMPOSIUM
New aspects of the cat’s role in epidemiology of zoonotic Vector Borne Diseases
Session: Symposium (SY)
Session Room: Exhibit Hall E

17:25 Bartonella, Bartonellosis and Cats
B.Chomel and J.Sykes, USA

18:00 An unknown flea borne zoonosis: the flea spotted fever (Rickettsia felis)
Col.J L Marié, France
09:00-10:15 CS36 IMMUNOLOGY / VACCINES
Session: Concurrent Session (CS)
Session Room: Telus 104-105-106
Session Chair: Dave Knox, United Kingdom

09:00 CS36.1 Monocyte- and macrophage-mediated immune reactions against Eimeria bovis
Carlos Hermosilla, United Kingdom

09:15 CS36.2 Cloning and identification of the Trichomonas gallinae ap gene
Hicham Wadeh, China

09:30 CS36.3 Role of regulatory T cells in murine Neospora caninum infection
Luzia Teixeira, Portugal

09:45 CS36.4 Development and evaluation of a live Salmonella-vectored coccidiosis vaccine with TRAP+ Upstream and CD 154 CD 40L epitopes in broiler chickens
Srichaitanya Shivaramaiah, United States

10:00 CS36.5 Interactive effects of protein nutrition and breed on periparturient immunity to parasites in sheep
Alemayehu Kidane, United Kingdom

09:00-10:30 CS37 PARASOL SYMPOSIUM
Novel solutions for the sustainable control of nematodes in ruminants (PARASOL project)

Session: Concurrent Session (CS)
Session Room: Glen 201-202
Session Chair: Frank Jackson, United Kingdom

09:00 Introduction
Bill Pomroy, New Zealand

09:15 CS37.1 The use of TST in small ruminants
Frank Jackson, United Kingdom

09:30 CS37.2 Techniques for herd/individual health monitoring and TST aimed at reducing the use of anthelmintics in cattle
Jozef Vercruysse, Belgium

09:45 CS37.3 The detection of anthelmintic resistance and its application to cattle
Gerald Coles, United Kingdom

10:00 CS37.4 Recommendations arising from the PARASOL project
Georg von Samson-Himmelstjerna, Germany

10:15 CS37.5 Introduction to the General Discussion
Brown Besier, Australia

09:00-10:00 CS38 ECTOPARASITES

Session: Concurrent Session (CS)
Session Room: Glen 203-204
Session Chair: Christian Epp, Switzerland

09:00 CS38.1 Cattle lice in Iceland; Prevalence and predilection sites
Matthias Eydal, Iceland

09:15 CS38.2 Milk kinetic and antiparasitic efficacy of eprinomectin against the louse Haematopinus tuberculatus in lactating after buffaloes (Bubalus bubalis)
Vincenzo Veneziano, Italy

09:30 CS38.3 Practical outputs of the Australian flystrike model
Andrew Little, Switzerland

09:45 CS38.4 Hospes vorare-derived Sarcoptes mite in wild animals
Samer Alasaad, Syria

09:00-10:30 CS39 FUTURE OF VETERINARY PARASITOLOGY SYMPOSIUM
Future directions in veterinary parasitology: Key research questions

Session: Concurrent Session (CS)
Session Room: Glen 205
Session Chair: Richard Wall, United Kingdom

09:00 CS39.1 Key challenges in sustainable ectoparasite management.
Richard Wall, United Kingdom

09:20 CS39.2 Molecular methods in veterinary entomology: Lights and shadows
Domenico Otranto, Italy

09:40 CS39.3 Genetic resistance of ruminants to gastrointestinal nematodes
Philippe Jacquiet, France

10:00 CS39.4 When worms are welcome Revisiting the parasite-host paradigm!
Stig Thamsborg, Denmark

10:20 CS39.5 Emerging challenges to helmith control in livestock
Eric Morgan, United Kingdom

10:30 Refreshment Break
Exhibit Hall CD

09:00-10:15 CS40 TRICHINELLA / DIAGNOSIS

Session: Concurrent Session (CS)
Session Room: Glen 206
Session Chair: Dolores Hill, United States

09:00 CS40.1 Identification of Trichinella spiralis early antigens and their application in serological diagnosis
Aleksandar Zocovic, France

09:15 CS40.2 Evaluation of magnetic stirrer method for detection of Trichinella spiralis from frozen muscle samples
Karsten Noeckler, Germany

09:30 CS40.3 Experiences with techniques for preparing the samples to assess the efficiency of the laboratories performing a richinella digestion assay according to the EU directive 2075/2005
Breisl Koudela, Czech Republic
09:45  **CS40.4**  Evaluation of Trichinella nativa (T2) in proficiency tests for Trichinella digestion assays  
Lorry Forbes, Canada

10:00  **CS40.5**  Evaluation of the sensitivity of the new device Gastros® to detect Trichinella larvae in pork by the comparison with the magnetic stirrer method  
Andrew Vodnev, Russian Federation

**09:00-10:15 CS41 ZOONOSES**  
*Session: Concurrent Session (CS)*  
*Session Room: Glen 209*  
*Session Chair: Jitender Dubey, United states*

09:00  **CS41.1**  Schistosomes of birds: New way to become infected  
Petr Horák, Czech Republic

09:15  **CS41.2**  Fishborne zoonotic trematode infections in domestic animals in an endemic area of North Vietnam: Prevalence and species diversity  
Stig Thamsborg, Denmark

09:30  **CS41.3**  Impact of super-shedders of Cryptosporidium and Giardia on naïve pen-mates and the feedlot environment  
Brenda Ralston, Canada

09:45  **CS41.4**  The potential for zoonotic transmission of Giardia duodenalis and Cryptosporidium spp. in beef and dairy cattle in Ontario, Canada  
Brent Dixon, Canada

10:00  **CS41.5**  Rats and parasites: A long-term faunistic survey in Iran  
Gholamreza Mowlavi, Iran

**11:00-11:30 PL4 PLENARY 4**  
*Session: Plenary Session (PL)*  
*Session Room: Exhibit Hall E*  
*Session Chair: Stig Thamsborg, Denmark*

**PL4.1**  Selected Parasitosis in Cultured and Wild Fish  
Fuci Guo, Canada

**11:30-12:30 SY5 PFIZER SYMPOSIUM**  
Pfizer Animal Health Symposium: A new class of anthelmintic: A Novel Combination

In the face of growing parasite resistance around the world, Pfizer Animal Health is pleased to invite you to a symposium for a first look at its new class of anthelmintic for sheep.

*Session: Symposium (SY)*  
*Session Room: Exhibit Hall E*  
*Session Chair: Tony Simon*

Discovery and preliminary nematocidal and pharmacological characterization of Derquantel  
David Thompson

The development and efficacy  
Steven J. Maeder

Managing novel anthelmintics  
Nicholas Sangster

Q & A

12:30  **Lunch Break**  
Exhibit Hall CD

14:00  **Fun Run**, Riverside running trail

14:00-17:30 **AAVP Awards Meetings**  
Telus 103/104/105

14:00  **Free Afternoon**
**Thursday, August 13, 2009**

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**08:00-09:00 POSTER SESSION 3**

Session: PO3  
Location: Exhibit Halls C & D  
Please note that details on poster speakers and abstracts appear following the program summary (pg 23)

**TOPICS**

- Animal Production  
- Diagnosis/PCR  
- Ectoparasites  
- Epidemiology  
- Immunology / Vaccines  
- Parasite Genomic/Proteomics  
- Trichinella  
- Vectors  
- Water-borne Protozoa  
- Zoonoses

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**CONCURRENT SESSIONS (7)**

**09:00-10:30 CS42 DRUG RESISTANCE AND PRODUCTION**

Session: Concurrent Session (CS)  
Session Room: Exhibit Hall E  
Session Chair: Marcelo Molento, Brazil

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Speaker, Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00</td>
<td>CS42.1</td>
<td>Emerging ivermectin resistance in scabies mites from northern Australia</td>
<td>Kate Mounsey, Australia</td>
</tr>
<tr>
<td>09:15</td>
<td>CS42.2</td>
<td>Interactions of Sarcoptes scabiei delta-class GSTs with various acaricides</td>
<td>Eva Molin, Sweden</td>
</tr>
<tr>
<td>09:30</td>
<td>CS42.3</td>
<td>Efficacy of Monepantel against a Haemonchus contortus isolate that is highly resistant to a number of commercially available anthelmintics</td>
<td>Philip Stein, Australia</td>
</tr>
<tr>
<td>09:45</td>
<td>CS42.4</td>
<td>Comparative efficacies of five long acting anthelmintic products against nematodes in sheep with confirmed anthelmintic resistance to three single actives.</td>
<td>Robin McAnulty, New Zealand</td>
</tr>
<tr>
<td>10:00</td>
<td>CS42.5</td>
<td>Evaluation of a larval migration inhibition assay in equine cyathostomin nematodes</td>
<td>Ray Kaplan, United States</td>
</tr>
<tr>
<td>10:15</td>
<td>CS42.6</td>
<td>Mammary gland development is affected by anthelmintic treatment in dairy heifer calves. (Hormonal control of milk production in bovines. Effect of verminous nematodiasis during the cow’s development and reproductive stages.</td>
<td>Miguel Mejía, Argentina</td>
</tr>
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**09:00-10:30 CS43 PHYSIOLOGY, PHARMACOLOGY & CONTROL**

Session: Concurrent Session (CS)  
Session Room: Telus 104-105-106  
Session Chair: Sean Forrester, Canada

<table>
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<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Speaker, Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00</td>
<td>CS43.1</td>
<td>RNA interference as a tool to probe gene function in cestodes?</td>
<td>Lisa Pierson, United Kingdom</td>
</tr>
<tr>
<td>09:15</td>
<td>CS43.2</td>
<td>Enzymes of glutathione biosynthetic pathway in rodent malaria parasite, Plasmodium berghei induce humoral immune response</td>
<td>Harjeet Banyal, India</td>
</tr>
<tr>
<td>09:30</td>
<td>CS43.3</td>
<td>Identification of abomasal nematode parasites of sheep using lectin binding</td>
<td>Katharina Hillrichs, New Zealand</td>
</tr>
<tr>
<td>09:45</td>
<td>CS43.4</td>
<td>Developing quality generic anthelmintics</td>
<td>Elizabeth Abbott, United Kingdom</td>
</tr>
<tr>
<td>10:00</td>
<td>CS43.5</td>
<td>In vitro and in vivo anthelmintic activity of Triatema portulacastrum L. and Musa paradisiaca L. against gastrointestinal nematodes of Sheep (Ovis aries)</td>
<td>Muhammad Nisar Khan, Pakistan</td>
</tr>
<tr>
<td>10:15</td>
<td>CS43.6</td>
<td>Activity of Vibrio cholerae biofilm supernatants against Giardia duodenalis</td>
<td>Ryan O’Handley, Australia</td>
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</table>

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**09:00-10:15 CS44 STRATEGIC CONTROL**

Session: Concurrent Session (CS)  
Session Room: Glen 201-202  
Session Chair: Jim Rothwell, Australia

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Speaker, Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00</td>
<td>CS44.1</td>
<td>Efficacy of imidacloprid 10 % + moxidectin 2.5 % (Advantage Multi®, Advocate®) topical solution against Crenosoma vulpis infection in artificially infected dogs.</td>
<td>Gary Conboy, Canada</td>
</tr>
<tr>
<td>09:15</td>
<td>CS44.2</td>
<td>Efficacy and safety of imidacloprid 10%/moxidectin 1% and emodepside 2.1%/praziquantel 8.6% spot-on formulations in the treatment of feline aelurostrongylosis</td>
<td>Donato Traversa, Italy</td>
</tr>
<tr>
<td>09:30</td>
<td>CS44.3</td>
<td>Selective anthelmintic treatment scheme for goats in tropical Mexico: two year field validation</td>
<td>Hilda Canul-Ku, Mexico</td>
</tr>
<tr>
<td>09:45</td>
<td>CS44.4</td>
<td>Transmission of intestinal parasites of alpacas in the mid-Atlantic region, U.S.A.</td>
<td>Anne Zajac, United States</td>
</tr>
<tr>
<td>10:00</td>
<td>CS44.5</td>
<td>Evaluation of the FAMACHA® system in South American camelids</td>
<td>Bob Storey, United States</td>
</tr>
</tbody>
</table>
09:00-10:30 CS45 Diagnosis

Session: Concurrent Session (CS)
Session Room: Glen 203-204
Session Chair: Thomas Schneider, Germany

09:00  CS45.1 Detection and differentiation of coccidian oocysts by real-time PCR with melting curve analysis
Laura Lalonde, Canada

09:15  CS45.2 Evaluation of species-specific oligoprobes for identification of taeniid cestodes of canids
Ken Katakura, Japan

09:30  CS45.3 Sarcocystis species in cervids - molecular data are necessary for correct species identification!
Stina Dahlgren, Norway

09:45  CS45.4 Detection of Taenia saginata cysticerci in experimentally infected cattle by histology and PCR
E. Patterson, Canada

10:00  CS45.5 Diagnostic methods for encephalitozoonosis in pet rabbits
J. Jacqueline Csokai, Austria

10:15  CS45.6 Parasites of the African Painted dog (Lycaon pictus) in wild and captive populations: potential conservation impacts
Amanda Ash, Australia

09:00-09:45 CS46 Coccidia

Session: Concurrent Session (CS)
Session Room: Glen 205
Session Chair: Anja Joachim, Austria

09:00  CS46.1 The epidemiological survey of coccidia in wild crane flocks in Japan by faecal DNA based identification of crane species and individual bird
Hajime Honma, Japan

09:15  CS46.2 Eimeria praecox: Pathological effects and variability in virulence of field strains
Ralph Marshall, Great Britain

09:30  CS46.3 Identifying humane endpoints in turkeys artificially infected with coccidiosis
Ollie Gladstone, United Kingdom

09:00-10:15 CS47 Canine Parasites

Session: Concurrent Session (CS)
Session Room: Glen 206
Session Chair: Claudio Genchi, Italy

09:00  CS47.1 Prophylactic use of imidacloprid/moxidectin spot-on solution in dogs experimentally infected with Angiostrongylus vasorum
Manuela Schnyder, Switzerland

09:15  CS47.2 Clinical and laboratory findings in dogs experimentally infected with Angiostrongylus vasorum and first results of new diagnostic serological ELISAs using monoclonal and polyclonal antibodies
Manuela Schnyder, Switzerland

09:30  CS47.3 Evaluation of a combination of doxycycline and ivermectin in the treatment of naturally-acquired Dirofilaria immitis infection in dogs.
Laura Kramer, Italy

10:00  CS47.4 Development of an in vitro bioassay to detect the presence of anthelmintic resistance in Dirofilaria immitis.
Andrew Moorhead, United States

10:30 Refreshment Break
Exhibit Hall CD
11:00-13:00 CS49 - DRUG RECEPTORS & RESISTANCE
Session: Concurrent Session (CS)
Session Room: Exhibit Hall E
Session Chair: Richard Martin, United States

11:00  CS49.1  The response of Teladorsagia circumcincta to ivermectin exposure in vitro: A transcriptomic analysis
Philip Skuce, United Kingdom

11:15  CS49.2  The cytochrome P450 family in the parasitic nematode Haemonchus contortus
Roz Laing, United Kingdom

11:30  CS49.3  Structural Analysis of ACR-23 and Potential AAD Binding
Robin Beech, Canada

11:45  CS49.4  Acetylcholine receptor subunit genes from Ancylostoma caninum: Altered expression patterns associated with pyrantel resistance
Steven Kopp, Australia

12:00  CS49.5  Study of the beta-tubulin gene and the resistance against macrocyclic lactones in Teladorsagia circumcincta
Maria Martinez-Valladares, Spain

12:15  CS49.6  Levamisole resistance in gastrointestinal nematodes investigated at the molecular level
Aymeric Fauvin, France

12:30  CS49.7  Genetic polymorphisms in the ancillary proteins of acetylcholine receptors from Haemonchus contortus associated with levamisole resistance
Claude Charvet, France

12:45  CS49.8  Investigation of anthelmintic metabolism by nematodes using the model organism Caenorhabditis elegans
Steven Laing, United Kingdom

12:00  CS50.5  Differential cellular responses between two local Canarian Island sheep breeds are associated with a differential ability to resist Haemonchus contortus parasite infection
Jorge González, Spain

12:15  CS50.6  Local cytokine expression during Dictyocaulus viviparous infection in cattle
Sofia Holmgren, Sweden

12:30  CS50.7  Humoral and cellular immune response and transplacental transmission in cows experimentally infected with Neospora caninum NC-6 Argentina strain
Gastón Moré, Argentina

12:45  CS50.8  Response of CD4 and CD25 positive T-cells during infection in sheep selected for either resistance or resilience to gastrointestinal parasites
Andrew Greer, New Zealand

11:00-13:00 CS50 - IMMUNOLOGY
Session: Concurrent Session (CS)
Session Room: Telus 104-105-106
Session Chair: Andy Forbes, France

11:00  CS50.1  Porcine coccidiosis: Investigations on the cellular immune response against Isospora suis
Hanna Worliczek, Austria

11:15  CS50.2  Mucus and the mucosal response to parasites: Lessons from proteomics
Alan Pemberton, United Kingdom

11:30  CS50.3  Abomasal Foxp3+ T cell responses following primary and secondary infection with Teladorsagia circumcincta
Tom McNeily, United Kingdom

11:45  CS50.4  Effects of Ostertagia ostertagi on the abomasal mucus barrier in cattle
Peter Geldhof, Belgium

12:00  CS50.5  Examinations in endoparasite prevalences in dogs and cats in animal shelters in Lower-Saxony Germany and investigations of anthelmintic resistance
Christian Epe, Switzerland

12:15  CS50.6  Distribution and characterization of Heterobilharzia americana infections in the dog in Texas
Karen Snowden, United States

12:30  CS50.7  A survey on Dictyocaulus viviparous antibodies in bulk milk of dairy herds in Northern Germany
Anne-Marie Klewer, Germany

12:45  CS50.8  Geographic information system surveillance of fasciolosis in cattle during 2003 to 2008 in Southern Brazil
Marcelo Molento, Brazil

11:00-12:45 CS51 - EPIDEMIOLOGY
Session: Concurrent Session (CS)
Session Room: Glen 201-202
Session Chair: Alexander Trees, United Kingdom

11:00  CS51.1  Examinations in endoparasite prevalences in dogs and cats in animal shelters in Lower-Saxony Germany and investigations of anthelmintic resistance
Christian Epe, Switzerland

11:15  CS51.2  Distribution and characterization of Heterobilharzia americana infections in the dog in Texas
Karen Snowden, United States

11:30  CS51.3  A survey on Dictyocaulus viviparous antibodies in bulk milk of dairy herds in Northern Germany
Anne-Marie Klewer, Germany

11:45  CS51.4  Geographic information system surveillance of fasciolosis in cattle during 2003 to 2008 in Southern Brazil
Marcelo Molento, Brazil

12:00  CS51.5  North American pathogenic giant liver fluke (Fascioloides magna) is spreading in Central Europe
Martin Kasny, Czech Republic

12:15  CS51.6  Epidemiology of warble fly in wild deer in Scotland and England
Mark Fox, United Kingdom

12:30  CS51.7  Mange in alpacas, llamas and goats in the UK: Incidence and risk
Jacqueline Lusat, United Kingdom
11:00-13:00 CS52 STRATEGIC CONTROL
Session: Concurrent Session (CS)
Session Room: Glen 203-204
Session Chair: Debra Woods, United States

11:00 CS52.1 Correlation of FAMACHA® anaemia scoring with Haemonchus contortus infections in Swiss goat flocks
Miriam Scheuerle, Germany

11:15 CS52.2 Production consequences of weight-based targeted selective treatment of nematodes in sheep
Eric Morgan, United Kingdom

11:30 CS52.3 Antioxidants as drug targets for the control of Haemonchus contortus
Amanda Hudson, Australia

11:45 CS52.4 Performance of lambs in a Scottish field trial that were subjected to either a targeted treatment or targeted selective treatment anthelmintic regime
Andrew Greer, New Zealand

12:00 CS52.5 Serum pepsinogen levels to monitor gastrointestinal nematode infections in cattle revisited
Johannes Charlier, Belgium

12:15 CS52.6 Targeted selective treatments maintain susceptibility to ivermectin treatment in lambs in a Scottish field trial
Fiona Kenyon, United Kingdom

12:30 CS52.7 Random anthelmintic treatments in sheep: Targeted selective treatment for dummies
Jacques Cabaret, France

12:45 CS52.8 A participatory approach for small-scale Caribbean farmers in goat health, research and extension
Adriano Vatta, South Africa

11:00-13:00 CS53- ARCTIC SYMPOSIUM
Arctic Parasitology
Session: Concurrent Session (CS)
Session Room: Glen 206
Session Chair: Merle Olson, Canada

11:00 CS53.1 An overview of the ecology of parasitic zoonoses in Arctic wildlife
Lydden Polley, Canada

11:20 CS53.2 Parasite zoonoses, wildlife and the Arctic: Emerging issues
Andrew Thompson, Australia

12:00 CS53.4 Needs and opportunities for monitoring and managing parasitic zoonoses in northwestern Canada
Emily Jenkins, Canada

12:20 CS53.5 Dogs as sources and sentinels of parasites in humans and wildlife in northern Canada
Susan Kutz, Canada

12:40 CS53.6 Controlling design limitations and epidemiological biases in studies of Arctic parasitology
Andria Jones, Canada

11:00-12:45 CS55 NON-PHARMA CONTROL
Session: Concurrent Session (CS)
Session Room: Glen 209
Session Chair: James Miller, United States

11:00 CS55.1 Evaluation of plantain (Plantago lanceolata) as suitable peri-parturient feed for multiple bearing ewes
Robin McNulty, New Zealand

11:15 CS55.2 Kinetics of capture and infection of infective larvae of Trichostrongylidae and free-living nematodes (Panagrellus) by Duddingtonia flagrans.
Marcelo Molento, Brazil

11:30 CS55.3 Differences in the response of the motility and exsheathment process of Haemonchus contortus larvae exposed to tropical tannin rich sources
Felipe Torres-Acosta, Mexico
11:45  CS55.4  In vivo anti-coccidial efficacy of sainfoin against Eimeria spp. in lambs
Anastasios Saratsis, Greece

12:00  CS55.5  Anthelmintic activity of some plants with particular reference to their
condensed tannin content
Zafar Iqbal, Pakistan

12:15  CS55.6  Mode of action of phytohaemagglutinin lectin on the control of gastrointestinal
parasites in sheep
Leyla Rios-de Alvarez, Venezuela

12:30  CS55.7  In vitro and in vivo anthelmintic activity of some browse Mediterranean plants
against parasitic nematodes
Smaro Sotiraki, Greece

12:45  CS55.8  Effects of artemisinin and Artemisia annua products on experimental
Haemonchus contortus infection in gerbils (Meriones unguiculatus)
Anne Zajac, United States

15:45-16:45  CS57  GENETICS/OTHER
Session: Concurrent Session (CS)
Session Room: Telus 104-105-106
Session Chair: J ohn Gilleard, Canada

15:45  CS57.1  Morphological and genetic diversity of Trichuris spp. recovered from humans
and pigs
Sofi e Nissen, Denmark

16:00  CS57.2  Genomic variability among Schistosoma japonicum isolates from China revealed
by ISSR markers
Xing-Quan ZHU, China

16:15  CS57.3  Atypical Toxoplasma gondii genotypes in Western Australian wildlife species
Shuting Pan, Australia

16:30  CS57.4  The biodiversity and systematics of marine fish parasitic isopods of the
family Cymothoidae from southern Africa
Kerry Hadfield, South Africa

14:15-15:15  WAAVP GENERAL ASSEMBLY
Session Room: Exhibit Hall E

15:15  Refresment Break
Exhibit Hall CD

15:45-16:45  CS56  EPIDEMIOLOGY AND CONTROL
Session: Concurrent Session (CS)
Session Room: Exhibit Hall E
Session Chair: Anne Zajac, United States

15:45  CS56.1  Toxoplasma gondii infection in Greek dairy small ruminant flocks detected by
ELISA in blood samples
Nikolaos Tzanidakis, Greece

16:00  CS56.2  Preliminary research into the lifecycle of Haemogregarina Fitzsimonsi Dias, 1953
and its possible use as a bio-indicator for host population health
Courtney Cook, South Africa

16:15  CS56.3  Toxocara vitulorum: First field case in the Netherlands
Fred Borgsteede, Netherlands

16:30  CS56.4  Fenbendazole treatment results in an increased productivity in calves
experimentally infected with Giardia duodenalis
Thomas Geurden, Belgium

15:45-17:00  CS58  DIAGNOSIS & CONTROL
Session: Concurrent Session (CS)
Session Room: Glen 201-202
Session Chair: J ohannes Charlier, Belgium

15:45  CS58.1  Identification of vaccine candidates against poultry red mite, Dermanyssus
gallinae
Harry Wright, United Kingdom

16:00  CS58.2  Cathepsin proteases: their potential as vaccines for the control of Dermanyssus
gallinae infestations in commercial poultry houses
J ohn Huntley, United Kingdom

16:15  CS58.3  Development of innovative method based on fungal entomopathogens for
control of the economically-important African ticks
Godwin Kaaya, Namibia

16:30  CS58.4  Is Dirofi laria repens spreading in Germany?
Viktor Dyachenko, Germany

16:45  CS58.5  The molecular identification of and the histological changes induced by
Anisakis larvae (Nematoda: Anisakidae) in Atlantic salmon (Salmo salar L)
Thomas Murphy, Ireland
**15:45-17:00 CS59 COMPANION ANIMAL SYMPOSIUM**

Session: Concurrent Session (CS)
Session Room: Glen 203-204
Session Chair: Mike Paul, United States

15:45 **CS59.1** Current state of the zoonotic implications of Cryptosporidium and Giardia
Dwight Bowman, United States

16:05 **CS59.2** Current state of the zoonotic implications of Ascarids, hook worms and Heartworms
Byron Blagburn, United States

16:25 **CS59.3** Current state of understanding of the implications of Toxoplasmosis
Lora Ballweber, United States

16:50 **CS59.4** Current state of understanding of ticks as vectors and the diseases they transmit
Susan Little, United States

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**15:45-17:00 CS60 BABESIOSIS / ANAPLASMOSIS**

Session: Concurrent Session (CS)
Session Room: Glen 205
Session Chair: Brenda Ralston, Canada

15:45 **CS60.1** Erythrocyte surface protrusions are not required for accumulation of Babesia canis-infected erythrocytes in vivo
Theo Schetters, Netherlands

16:00 **CS60.2** Molecular differentiation of Anaplasma phagocytophilum strains involved in canine infections in Germany
Cornelia Silaghi, Germany

16:15 **CS60.3** Development of a loop-mediated isothermal amplification method for rapid diagnosis of Babesia microti infection
Ikuo Igarashi, Japan

16:30 **CS60.4** Quantitative real time PCR for evaluation of Borrelia burgdorferi s.l. and Anaplasma phagocytophilum in ticks in the region of Hannover, Northern Germany
Christian Epe, Switzerland

16:45 **CS60.5** Detection of Babesia DNA in cattle fever ticks using a Reverse Line Blot.
Jeanne Howell, United States

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**15:45-17:00 CS61 PARASITE EXTINCTION SYMPOSIUM**

Session: Concurrent Session (CS)
Session Room: Glen 206
Session Chair: Eric Morgan, United Kingdom

15:45 **CS61.1** Ecological effects of changes in host-parasite dynamics in northwestern North America
TBA

16:05 **CS61.2** Parasite adaptation in the face of constant threat of extinction
Jan van Dijk, United Kingdom

16:25 **CS61.3** Changes in the biology of equine parasites under sustained treatment
Ray Kaplan, United States

16:45 **CS61.4** Immuno-epidemiology and evolution of virulence in protozoal parasites subjected to control
Theo Schetters, Netherlands

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**17:00-18:00 PL5 PLENARY 5**

Session: Plenary Session (PL)
Session Room: Exhibit Hall E
Session Chair: Andre Buret, Canada

17:00 **PL5.1** From parasite genomes to one healthy world; are we having fun yet?
Dan Zarlenga, United States

17:30 **PL5.2** Emerging food-borne parasites
Pierre Dorny, Belgium

19:00-23:00 Closing Gala Banquet
Hyatt Regency Calgary, Imperial Ballroom
Tuesday, August 11, 2009

08:00-09:00  PO-01 - POSTER SESSION 1

PO1 AQUACULTURE / SEA LICE

PO1.1 New classification criteria of Argulus spp from statistical and taxonomic studies of Argulidae in Guangdong-China
Hicham Wadeh, China

PO1 BABESIOSIS / ANAPLASMORIS

PO1.2 Molecular detection of Babesia rossi and Hepatozoon sp. in African wild dogs (Lycaon pictus) in South Africa
Kgomotso Sibeko, South Africa

PO1.3 Epidemiological study on some blood parasites of cattle in Gharbia District, Egypt.
Mahmoud ElSeify, Egypt

PO1.4 Identification of genetic variants of Anaplasma phagocytophilum in goat flocks in central Switzerland
Cornelia Silaghi, Germany

PO1.5 A pilot study of tick control and seroprevalence of Anaplasma phagocytophilum in selected Danish sheep herds
Heidi Enemark, Denmark

PO1 CONTROL

PO1.6 Efficacy of a combination product containing pyrantel, febantel and praziquantel (Drontal® Plus Flavour, Bayer) against experimental infection with Ancylostoma ceylanicum in dogs
Roland Schaper, Germany

PO1.7 Field evaluation of the palatability of a new oral ivermectin formulation in horses
Emmanuel Thomas, Germany

PO1 DIAGNOSIS / PCR

PO1.8 Enzyme-linked immunoassay using Toxoplasma gondii rGra7 antigen for antibody detection in pigs.
Lais Pardini, Argentina

PO1.9 Molecular characterization of Dicrocoelium dendriticum and D. chinensis obtained from Japanese serow (Capricornis crispus) and sika deer (Cervus nippon) in Iwate, Japan
Tadashi Itagaki, Japan

PO1.10 Production and characterization of monoclonal antibodies against Taenia saginata metacestode antigens
Caris Nunes, Brazil

PO1.11 Is it possible to detect Taenia saginata DNA in blood samples of naturally infected calves?
Caris Nunes, Brazil

PO1.12 Pattern of recognition of Besnoitia besnoiti tachyzoite and bradyzoite antigens by naturally infected cattle.
Luis Ortega-Mora, Spain

PO1.13 Analysis of the correlation between EPG counts and the number of female gastrointestinal nematodes in a bovine population.
Thaís Santos, Brazil

PO1 DRUG RESISTANCE

PO1.14 Serodetection of Ehrlichia canis infection in dogs in Punjab, India
Lachhman Singla, India

PO1.15 Anthelmintic resistance of nematodes in communally grazed sheep
Rubera Bakunzi, South Africa

PO1.16 Anthelmintic resistant nematodes in English cattle.
Gerald Coles, United Kingdom

PO1.17 Efficacy of four fasciolicides against a natural acquired Fasciola hepatica infection in a hill sheep research farm, Ireland
Theo de Waal, Ireland

PO1.18 Ivermectin resistance: A role for gene expression?
Alison Dicker, Great Britain

PO1.19 An Appraisal of the Helminth Control Practices and Anthelmintic Resistance in Gastrointestinal Nematodes of Sheep in Punjab-Pakistan
Zafar Iqbal, Pakistan

PO1.20 Putative involvement of the nematode gamma-amino butyric acid (GABA) receptor in the mode of action of the anthelmintic Emodespid.
Sandra Mitsch, Germany

PO1.21 Control of gastro-intestinal nematodes in sheep with the new amino-acetonitrile derivative, ZOLVIX® monopantel)
Heinz Sager, Switzerland

PO1.22 Anthelmintic resistance of Haemonchus contortus in small ruminant flocks in Southern Germany and Switzerland
Miriam Scheuerle, Germany

PO1.23 A comparative study on the effect of triclabendazole sulphoxide on egg production and hatch rate in different liver fluke isolates
Ian Fairweather, United Kingdom
**PO1 EPIEMIOLOGY**

**PO1.25** Natural infections of Angiostrongylus vasorum and Crenosoma vulpis in dogs in Germany  
Dieter Barutzki, Germany

**PO1.26** Seroprevalence of Toxoplasma Gondii infection in small ruminants from Romania  
Radu Blaga, Romania

**PO1.27** Alaria alata: a trematode identified in wild boars muscles in France  
Sandrine Lacour, France

**PO1.28** Prevalence of Tritrichomonas foetus and Campylobacter fetus infections in a Spanish endangered beef cattle breed (Asturiana de la Montaña)  
Ignacio Ferre, Spain

**PO1.29** Prevalence of Sarcocystis spp in Argentinean cattle  
Gastón Moré, Argentina

**PO1.30** Development of microsatellite marker panels for trichostronglid nematodes of ruminants  
Fiona Whitelaw, United Kingdom

**PO1.31** Increased parasitic burden by Haemonchus in bovines in Brazil  
Thais R. Santos, Brazil

**PO1.32** The influence of Queen Elisabeth National Park on the prevalence of selected hemoparasites of cattle in Uganda  
Richard Kabuusu, Grenada

**PO1.33** Reindeer nematodes infect sheep  
Antti Oksanen, Finland

**PO1 FOOD BORNE PARASITES**

**PO1.34** Toxoplasma gondii in Ireland  
Dana Halova, Ireland

**PO1.35** Wild boar surveillance for Toxoplasma gondii  
Dolores Hill, United States

**PO1.36** Neem oil Organic Neem® (Azadirachta indica) to combat Rhipicephalus microplus tick  
Marcelo Molento, Brazil

**PO1.37** Improving smallholder pig farmers' knowledge on Taenia solium has the potential for reducing porcine and human cysticercosis incidences in endemic areas of Tanzania  
Helena Ngowi, Tanzania

**PO1.38** A method to detect Toxoplasma gondii DNA in fresh pork sausage  
Maria Vitale, Italy

**PO1 IMMUNOLOGY / VACCINES**

**PO1.39** Immunization of chickens with ISCOMs assembled recombinant S07 antigen and purified saponins Gg-6 and Ah-6 induced protection against Eimeria tenella infection  
Vladimir Berezin, Kazakhstan

**PO1.40** Early local cellular response and free radical mediated cytotoxicity in rats immunised with a recombinant by juvenile Fasciola hepatica cathepsin B3 (CB3) and infected with fluke metacercariae.  
Luiza Jedlina-Panasiuk, Poland

**PO1.41** The humoral response of sheep vaccinated with a recombinant cathepsin L (CL1) and phosphoglycerate kinase (PGK) of Fasciola hepatica and challenged with fluke metacercariae.  
Monika Kozak, Poland

**PO1.42** Recombinant Interleukin-4 enhances Campylobacter jejuni invasion of Intestinal Pig Epithelial Cells (IPEC-1)  
Linda Mansfield, United States

**PO1.43** Variation of antibody titers to Toxoplasma gondii, Neospora caninum and Sarcocystis spp in naturally infected goats.  
Gastón Moré, Argentina

**PO1.44** Trichuris suis immunomodulates an autoimmune disease (multiple sclerosis) in rats  
Allan Roepstorff, Denmark

**PO1.45** Early Interleukin-10 production in mice infected with Neospora caninum tachyzoites  
Luzia Teixeira, Portugal

**PO1.46** Immune response induced by DNA vaccine encoding microneme protein 6 (MIC6) of Toxoplasma gondii in mice  
Zi-Guo Yuan, China

**PO1.47** Canine visceral leishmaniasis diagnosis  
Wilma Starke-Buzetti, Brazil

**PO1.48** Failure of a commercial herbal 'Internal Parasite Control' product to control cyathostomes in donkeys in the UK  
Faith Burden, United Kingdom

**PO1.49** Acaricidal activity of Lippia sidoides, Melia azedarach and Azadirachta indica essential oils on cattle tick Rhipicephalus (Boophilus) microplus  
Livio Costa-Júnior, Brazil

**PO1.50** Effects of condensed tannin from Acacia mearnsii on goat infected naturally with gastrointestinal helminthes  
Livio Costa-Júnior, Brazil

**PO1.51** In vitro efficacy of commercial isolates from plants on Rhipicephalus (Boophilus) microplus  
Ana Carolina Chagas, Brazil

**PO1.52** Action of Neem cake (Azadirachta indica) on Haematobia irritans in Nelore cattle  
Ana Carolina Chagas, Brazil

**PO1.53** Effects of crossbreed pregnancies on the abortion risk of Neospora-infected dairy cows  
Sonia Almeria, Spain
**PO1.54** Effect of heather consumption on incoming larvae and established population of Trichostrongylus colubriformis in experimentally-infected Cashmere goats
Ignacio Ferre, Spain

**PO1.55** Evaluation of cassava (Manihot esculenta) leaves for worm control in sheep
Chandrawathi Panachdcharam, Malaysia

**PO1.56** Investigation of anthelmintic activity of Eucalyptus staigeriana essential oil on goat gastrointestinal nematodes
Claudia Maria Bevilaqua, Brazil

**PO1.57** Evaluating the anthelmintic efficacy of eleven browse plant extracts from Kenya using in-vitro assays
John Githiori, Kenya

**PO1.58** Evaluation of the persistent efficacy of copper oxide wire particles against Haemonchus contortus in sheep
Felipe Torres-Acosta, Mexico

**PO1.59** Non-cerebral coenurosis in goats in the UAE
Rolf Schuster, United Arab Emirates

**PO1.60** Varroa destructor: A re-emergent pathogen related to the Bee Depopulation Syndrome
Aránzazu Meana, Spain

**PO1.61** Combined angiostrongylosis and crenosomosis in a Dutch dog.
Rolf Nijsse, Netherlands

**PO1.62** Gastrointestinal parasites of lamas in the Bolivian Andes
Jesper Monrad, Denmark

**PO1.63** Teaching veterinary parasitology and parasitic diseases at the Veterinary Faculty of UNAM in Mexico
Froylán Ibarra, Mexico

**PO1.64** Pharmacokinetics of moxidectin and triclabendazole in sheep following a single oral treatment with either moxidectin, triclabendazole or both
Francoise Blond, France

**PO1.65** Preliminary results of an ongoing multicentric field trial concerning efficacy of metaphylactic treatment with oltrazuril on weight gain in dairy in-housed calves at risk of coccidiosis
Abdülkerim Deniz, Germany

**PO1.66** A pathologic study on experimental toxoplasmosis in broiler chicken
Amin Derakhshanfar, Iran

**PO1.67** Effects of Curcumin (diferuloylmethane) on Eimeria tenella sporozoites in vitro.
Viktor Dyachenko, Germany

**PO1.68** Hybridization experiments indicate incomplete isolating mechanism between Fasciola hepatica and F. gigantica
Tadashi Itagaki, Japan

**PO1.69** The effect of desiccation on survival of the infective stage larvae (L3) of Teladorsagia circumcincta at different constant temperatures
William Pomroy, New Zealand

**PO1.70** Efficacy of an abamectin+levamisole tablet against an ML-resistant Cooperia in cattle using a faecal egg count reduction test and occurrence of a possibly ML-resistant isolate of Ostertagia in cattle
William Pomroy, New Zealand

**PO1.71** Pharmacokinetic properties and efficacy of a spot-on combination containing emodepside plus praziquantel (Profender®, Bayer) in reptiles.
Roland Schaper, Germany

**PO1.72** Persistent activity of monepantel against gastrointestinal nematodes of sheep
Philip Stein, Australia

**PO1.73** Glutathione S-transferases of Oesophagostomum dentatum are involved in prostaglandin production
Baerbel Ruttkowski, Austria

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Baerbel Ruttkowski, Austria
**PO1.83** Experimental infection with _Ancylostoma ceylanicum_ in dogs and efficacy of a spot on combination containing imidacloprid 10% and moxidectin 2.5% (*Advocate® / Advantage® Multi, Bayer*)
Roland Schaper, Germany

**PO1.84** FAMACHA® – big success in the U.S.!
Bob Storey, United States

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**Wednesday, August 12, 2009**

**08:00-09:00 - POSTER SESSION 2**

**PO2 AFRICAN TRYPANOSOMES**

**PO2.1** Quassinoids isolated from a medicinal plant, _Brucea javanica_ and their anti-trypanosomal activities in vitro
Saw Bawm, Japan

**PO2.2** The Pathogenicity and drug resistance of _Trypanosoma vivax_ in Sudanese calves and goats
Salma Ragab, Sudan

**PO2.3** An update of the bovine trypanosomosis situation at the edge of Hluhluwe-iMfolozi Park, KwaZulu-Natal Province, South Africa
Rhulani Nkuna, South Africa

**PO2 DIAGNOSIS/PCR**

**PO2.4** Scanning surveillance for parasites: Is it worth it?
Elizabeth Mitchell, United Kingdom

**PO2.5** Feline _Trichomonas foetus_ infection in Korea
SungShik Shin, Korea, Republic of (South Korea)

**PO2.6** Is the origin of parthenogenic _Fasciola_ sp. in China? A study of DNA types and morphology in Chinese _Fasciola_ specimens
Madoka Ichikawa, Japan

**PO2.7** Characterization of Egyptian _Theileria annulata_ strains using SDS-PAGE and RAPD Techniques
Karam Ashmawy, Egypt

**PO2.8** Seroprevalence of antibodies to tick-borne pathogens and heartworm antigen in shelter dogs from the state of Georgia
Tom O’Connor, United States

**PO2.9** Development of a species-specific molecular marker to identify _Haemonchus contortus_.
Mônica Amarante, Brazil

**PO2 DRUG RESISTANCE**

**PO2.10** Cloning and functional characterization of a _Cooperia oncophora_ P-glycoprotein A
Janina Demeler, Germany

**PO2.11** Multiple-anthelmintic resistance on a llama farm in the southeastern United States
Daniel Zarate, United States

**PO2.12** Time-course of triclabendazole action against adult _Fasciola hepatica_ in the sheep host
Emma Toner, United Kingdom

**PO2.13** In vitro selection and species differentiation of ivermectin resistant cyathostome larvae
Frans Kooyman, Netherlands

**PO2.14** Anthelmintic resistant nematodes in sheep and goats in Norway
Atle Domke, Norway
PO2.15 The route of administration affects ivermectin clinical efficacy against resistant nematodes in sheep Carlos Lanusse, Argentina

PO2.16 Trichostrongyle intestinal worms resistant to ivermectin treatments in dairy calves of the Buenos Aires province (Argentina) Pedro Steffan, Argentina

PO2.17 Trichostrongyle intestinal worms resistant to ivermectin treatments in dairy calves of the Buenos Aires province (Argentina) Pedro Steffan, Argentina

PO2.18 Evaluation of four cattle Anthelmintics using the faecal egg count (FEC) reduction test and polymerase chain reaction (PCR) test for egg identification Mark Alley, United States

PO2.19 Absence of ivermectin resistance in a survey on dairy goat nematodes in France Christopher Chartier, France

PO2.20 Anthelmintic resistance in Virginia small ruminants at a critical level Joseph Tritschler, United States

PO2.21 Fleece kinetic disposition of cypermethryn applied as backline treatment on Angora goats and its effect on Damalinea caprae infestation Fermin Olaechea, Argentina

PO2.22 Efficacy and Safety of ProMeris Duo® for the treatment of generalized demodecosis in dogs from Italy and Albania Klaus Hellmann, Germany

PO2.23 Novel control of the sheep scab mite, Psoroptes ovis, through the application of bacteriophage technology Sarah Hall, United Kingdom

PO2.24 Control of the poultry red mite (Dermanyssus gallinae) Daniela Lukesova, Czech Republic

PO2.25 Lice genus and species frequency on pigeons Columba livia from facilities in Mexico Maria Quintero, Mexico

PO2.30 Occurrence of Eucoleus aerophilus (syn. Capillaria aerophila) in dogs and cats from Italy Angela Di Cesare, Italy

PO2.26 Gastrointestinal helminthes of Iranian red foxes (Vulpes vulpes) Arash Sattari, Iran

PO2.27 Prevalence of anti-Toxoplasma gondii and anti-Neospora caninum antibodies in swine from northeastern Brazil Solange Gennari, Brazil

PO2.28 The first evidence of neosporosis in farm dogs in eastern Poland Katarzyna Gozdzik, Poland

PO2.29 Screening of plant compounds for anthelmintic activity against ovine gastrointestinal nematodes Yvonne Bartley, United Kingdom

PO2.31 Habronematosis due to Habronema muscae in a stable in the United Arab Emirates Rolf Schuster, United Arab Emirates

PO2.32 Investigating the rhoptry associated protein-1 (RAP-1) gene of Babesia caballi Raksha Bhoora, South Africa

PO2.33 First report of equine intraocular nematodiasis caused by Parelaphostrongylus tenuis Araceli Lucio-Forster, United States

PO2.34 Use of purified antigens for the early detection of Strongyle infection in horses Rosario Panadero-Fontán, Spain

PO2.35 Prescription only medicines: An opportunity or a burden for practitioners Deborah van Doorn, Netherlands

PO2.36 Comparison of coprological and molecular techniques for the diagnosis of Anolectcephala perforata infection of the horse Bretislav Koudela, Czech Republic

PO2.37 Comparison of two commercial anthelmintics against strongylids of naturally infected horses Froylán Ibarra, Mexico

PO2.38 Effect of temperature on the different stages of development of eggs and larvae of nematodes ciatostomíneos (Nematoda-Cyathostominae). Lurdes Rodrigues, Brazil

PO2.39 The frequency of strongylid nematodes of horses from different regions of the state of Rio de Janeiro, Brazil and evaluation of the cyathostomins L3 morphology. Lurdes Rodrigues, Brazil

PO2.40 Multi-centric, controlled, randomised field clinical trial to evaluate and compare the stress response induced in horses when administered endoparasiticides in tablet or paste formulations. Claudia Vischer, France

PO2.41 Four new species in Armenia fish helminthofauna Ruzanna Hovhannisyan, Armenia

PO2.42 Anisakid nematods in fish and marine mammals of northern Canada. Manon Simard, Canada

PO2.85 Climate change-induced risk of winter tick (Dermacentor albipictus) infestation on barren-ground caribou in the Northwest Territories, Canada: A conceptual model C. Ragagli, Italy
PO2.43 Dirofilaria immitis (Leidy, 1856) infection in a dog: first autochthonous case in Hungary
Olga Jacsó, Hungary

PO2.44 Autochthonous canine and feline dirofilarioses in central Italy: Microscopic and molecular evidence
Piermarino Milillo, Italy

PO2.45 Occurrence of Dirofilaria immitis and tick-borne infections caused by Anaplasma phagocytophilum, Borrelia burgdorferi sensu lato and Ehrlichia canis in domestic dogs in France: Results of a countrywide serologic survey
Roland Schaper, Germany

PO2.47 Scanning electron microscopy of Haemonchus contortus adults after contact with extracts of two tannin rich plants: Lysiloma latisiliquum and Onobrychis viciifolia
Felipe Torres-Acosta, Mexico

PO2.48 Anti-schistosomal properties of extracts from medical plants from Kakamega, on the parasite, Schistosoma mansoni in BALB/c mice
Helen Kutima, Kenya

PO2.49 Influence of dietary protein supply on resistance to experimental infections with Haemonchus contortus in Ile de France and Santa Ines ewes around parturition and during lactation
Raquel Rocha, Brazil

PO2.50 Effects of protein supply on immunological responses to Haemonchus contortus in Santa Ines and Ile de France ewes
Patrizia Bricarello, Brazil

PO2.51 Transcriptome analysis of pre-adult hypobiotic and non-hypobiotic L3 stages of the bovine lungworm Dictyocaulus viviparus
Eva-Maria Laabs, Germany

PO2.52 Two-dimensional fluorescence difference gel electrophoretic (2D-DIGE) analysis of Besnoitia besnoiti tachyzoites and bradyzoites
Gema Alvarez-Garcia, Spain

PO2.53 Cryptosporidium species and subtype analysis from calves and lambs in north-western Spain
Cefínero López-Sánchez, Spain

PO2.54 Gene expression in third-stage larvae of the ovine abomasal nematode Teladorsagia circumcincta in response to changing environmental cues.
Aileen Halliday, United Kingdom

PO2.55 The comparative analysis of Hsp90 in nematodes
Nik Ahmad Nik Him, United Kingdom

PO2.56 The putative cyclooctadepsipeptide receptor desphillin of Ancylostoma caninum
Nina Krüger, Germany

PO2.57 The complete mitochondrial genomes of Oesophagostomum dentatum and Oesophagostomum quadriradiatum (Nematoda: Strongylidea)
Rui-Qing Lin, China

PO2.58 Sequence difference in mitochondrial NADH dehydrogenase subunit 1 gene among Fasciola spp. of human and animal health significance
Xing-Quan Zhu, China

PO2.59 Genotypic characterization of Cryptosporidium isolates from cattle in a slaughterhouse in Tabriz City, northwestern Iran
Esmail Fallah, Iran

PO2.60 The discovery of lipid binding protein families in the excrectory/secretory products of Haemonchus contortus using a novel iterative proteomic-bioinformatic approach
Andrew Kotze, Australia

PO2.61 Comparative analysis of the Haemonchus contortus and C. elegans β-tubulin gene family
John Gilleard, Canada

PO2.62 PERL - An in vitro Model for the Percutaneous Migration of Ancylostoma caninum Third-stage Larvae
Claudia Welz, Germany

PO2.63 Treatment and prevention of vertical transmission of Toxocara cati in cats with an emodepside/praziquantel spot-on formulation
Sonja Wolken, Germany

PO2.64 Modulation of drug cellular efflux improves ivermectin activity against resistant nematodes: Integrated pharmaco-parasitological assessment
Adrian Lifschitz, Argentina

PO2.65 Pharmacological evaluation of a combined albendazole, ivermectin and levamisole formulation in lambs
Carlos Lanusse, Argentina

PO2.66 Efficacy of moxidectin/triclabendazole oral drench against mixed infections of Fasciola hepatica and gastrointestinal nematodes in sheep
Maria Martinez-Valladares, Spain

PO2.67 Antigiardiasic effect of the compound alpha (benzimidazole derivative)
Jimena Otero, Mexico

PO2.68 Maintenance of adult Teladorsagia circumcincta in a short term culture
Katharina Hillrichs, New Zealand

PO2.69 Plasma pharmacokinetics of a new palatable oral ivermectin formulation in comparison with an oral paste in horses
Emmanuel Thomas, Germany
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<td>PO2.70</td>
<td>Combined administration of fenbendazole and praziquantel against Toxocara canis and Ancylostoma caninum in pregnant dogs and their puppies</td>
<td>Yolanda Vera, Mexico</td>
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<td>PO2.71</td>
<td>Determination of the effectiveness of levamisole in goats</td>
<td>Marcelo Molento, Brazil</td>
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<td>The efficacy of ivermectin in dexamethasone treated young cattle</td>
<td>Marlene Areskog, Sweden</td>
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<td>Toxoplasma gondii: Evidence of sexual transmission in sheep</td>
<td>Welber Lopes, Brazil</td>
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<td>Histopathology of the reproductive system of male sheep and goats experimentally infected with Toxoplasma gondii</td>
<td>Welber Lopes, Brazil</td>
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<td>Preferred locations for Cysticercus bovis in bovines experimentally infected with Taenia saginata eggs</td>
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<td>PO2.76</td>
<td>Histopathological and immunohistochemical observations in pregnant queens experimentally infected with two major clonal lineages of Toxoplasma gondii from Brazil</td>
<td>Alvimar Costa, Brazil</td>
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<td>PO2.77</td>
<td>Incidence of Cryptosporidium, Giardia and microsporidia in young dogs in Brazil</td>
<td>Maria Lalio, Brazil</td>
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<td>Piyanan Taweethavansawat, Thailand</td>
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<td>Prevalence of Toxocara spp. in dogs of fields fishing of Navolato, Sinaloa, México.</td>
<td>Mario Rubio Robles, Mexico</td>
</tr>
<tr>
<td>PO2.82</td>
<td>Data on echinococcosis/hydatidosis in slaughtered animals from different areas of Romania</td>
<td>Ioan Liviu Mitrea, Romania</td>
</tr>
<tr>
<td>PO2.83</td>
<td>Presence of Toxocara spp. in soil of Altata Beach, Navolato, Sinaloa, México</td>
<td>Mario Rubio Robles, Mexico</td>
</tr>
<tr>
<td>PO2.84</td>
<td>Ancylostoma spp. in sand of Altata beach of Navolato, Sinaloa, México.</td>
<td>Soila Gaxiola C., Mexico</td>
</tr>
<tr>
<td>PO2.70</td>
<td>Combined administration of fenbendazole and praziquantel against Toxocara canis and Ancylostoma caninum in pregnant dogs and their puppies</td>
<td>Yolanda Vera, Mexico</td>
</tr>
<tr>
<td>PO2.71</td>
<td>Determination of the effectiveness of levamisole in goats</td>
<td>Marcelo Molento, Brazil</td>
</tr>
<tr>
<td>PO2.72</td>
<td>The efficacy of ivermectin in dexamethasone treated young cattle</td>
<td>Marlene Areskog, Sweden</td>
</tr>
<tr>
<td>PO2.73</td>
<td>Toxoplasma gondii: Evidence of sexual transmission in sheep</td>
<td>Welber Lopes, Brazil</td>
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<tr>
<td>PO2.74</td>
<td>Histopathology of the reproductive system of male sheep and goats experimentally infected with Toxoplasma gondii</td>
<td>Welber Lopes, Brazil</td>
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<tr>
<td>PO2.75</td>
<td>Preferred locations for Cysticercus bovis in bovines experimentally infected with Taenia saginata eggs</td>
<td>Alvimar Costa, Brazil</td>
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<tr>
<td>PO2.76</td>
<td>Histopathological and immunohistochemical observations in pregnant queens experimentally infected with two major clonal lineages of Toxoplasma gondii from Brazil</td>
<td>Alvimar Costa, Brazil</td>
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**Thursday, August 13, 2009**

**08:00-09:00 PO-03 POSTER SESSION 3**

**PO3 ANIMAL PRODUCTION**

<table>
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<tr>
<th>Poster ID</th>
<th>Title</th>
<th>Authors &amp; Location</th>
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<tr>
<td>PO3.1</td>
<td>Resistance of Santa Ines and crossbred ewes to naturally acquired gastrointestinal nematode infections</td>
<td>Alessandro Amarante, Brazil</td>
</tr>
<tr>
<td>PO3.2</td>
<td>Natural evolution of Neospora caninum infection in a dairy herd of Italy</td>
<td>Gioia Capelli, Italy</td>
</tr>
<tr>
<td>PO3.3</td>
<td>Hematological parameters of goats naturally infected by gastrointestinal nematodes</td>
<td>Helenara da Silva, Brazil</td>
</tr>
<tr>
<td>PO3.4</td>
<td>Ruminant nematodes in pasture under different grazing systems with sheep and cattle</td>
<td>Bruno Dalíago, Brazil</td>
</tr>
<tr>
<td>PO3.5</td>
<td>An efficacy trial of four cattle anthelmintics based on gastrointestinal nematode recovery</td>
<td>Jennifer Edmonds, United States</td>
</tr>
<tr>
<td>PO3.6</td>
<td>Parasitological survey and determination of metabolic profiles of farmed eland (Taurotragus oryx) in the Czech Republic</td>
<td>Daniela Lukesova, Czech Republic</td>
</tr>
<tr>
<td>PO3.7</td>
<td>Endoparasitosis and ectoparasitosis at pig farm</td>
<td>Atanas Nitovski, Serbia</td>
</tr>
<tr>
<td>PO3.8</td>
<td>Efficacy of fenbendazole and eprinomectin in New York dairy replacement heifers as determined by faecal egg count reduction</td>
<td>Daryl Nydam, United States</td>
</tr>
<tr>
<td>PO3.9</td>
<td>Evaluation of the association between Isospora suis infection and post-weaning performance on three southwestern Ontario swine farms</td>
<td>Andrew Peregrine, Canada</td>
</tr>
<tr>
<td>PO3.10</td>
<td>Paramphistomosis in Argentina: Current situation</td>
<td>Rodrigo Sanabria, Argentina</td>
</tr>
<tr>
<td>PO3.11</td>
<td>Eosinophils in the small intestine are negatively correlated with faecal dry matter in Merino sheep challenged with Trichostrongylus colubriformis and Teladorsagia circumcincta</td>
<td>Andrew Williams, Australia</td>
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**PO3 DIAGNOSIS/PCR**

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<tbody>
<tr>
<td>PO3.12</td>
<td>PCR detection of Taenia spp. in rodents in Danish woodlands</td>
<td>Mohammad Al-Sabi, Denmark</td>
</tr>
<tr>
<td>PO3.13</td>
<td>Preliminary serological evaluation of filter paper-collected blood and serum from cats and mice experimentally infected with Toxoplasma gondii</td>
<td>Jane Benjamin, Canada</td>
</tr>
</tbody>
</table>
PO3.14 Comparative evaluation of enzyme-linked immunosorbent assay and western blotting using Taenia solium cystic fluid antigen for serodiagnosis of neurocysticercosis in patients having active or calcified solitary or multiple cystic lesions
Kangjam Devi, India

PO3.15 Comparison of two purification systems of recombinant protein (MSP) used in serodiagnosis of Dictyocaulus viviparus infections in cattle
Annie Engström, Sweden

PO3.16 Development of a serum antibody Lisa to detect Fasciola hepatica infections in horses
Thomas Geurden, Belgium

PO3.17 Preservation of faecal samples for nematode egg count determination and larvae identification from horses, cattle and sheep
Marcelo Molento, Brazil

PO3.18 Detection of Neospora caninum in naturally infected urban rodents from Great São Paulo area, SP, Brazil
Vanessa Muradian, Brazil

PO3.19 Assemblages of Giardia in ruminants from some states of the Mexican altiplano
Jimena Otero, Mexico

PO3.20 Bovine tick control: Efficiency of acaricide samples collected from a spray tank and oxidative treatment for residual water decomposition
Ana Carolina Chagas, Brazil

PO3.21 First record of Ceratothoa oestroides (Risso, 1826) and Mothocya rosea (Crustacea: Isopoda) from Myripristis murdjan, the Pinecone soldierfish from Red Sea, Egypt
Abdelrazek Desouky, Egypt

PO3.22 Neem (Azadirachta indica): Its potential for control of African ticks of economic importance
Godwin Kaaya, Namibia

PO3.23 Fleece kinetic disposition of cypermethrin applied as backline treatment of sheep at shearing and its effect on Melophagus ovinus
Fermin Olaechea, Argentina

PO3.28 Prevalence of Eimeria spp. in domestic bovines, ovines and caprines on commercial farms in South Africa
Bonginkosi Qwalela, South Africa

PO3.29 Prevalence in gastrointestinal nematode parasites of sheep in the Czech Republic
Eva Vernerova, Czech Republic

PO3.30 Cytokines mRNA Levels in Brazilian Somali sheep resistant and susceptible to Haemonchus spp. Infection
Alessandro Amarante, Brazil

PO3.31 Implication of hydatid antigens on cytokines and NO production in human hydatidosis
Manel Amri, Algeria

PO3.32 Immunological aspects of Heterophyidae infection in laboratory animals
Mahmoud ElSeify, Egypt

PO3.33 Mouse transcriptomics-based deduction of in vivo enteric immune response to infection by an obligate intracellular parasite Eimeria falciformis
Nishith Gupta, Germany

PO3.34 Fasciola hepatica tegumental antigen suppresses dendritic cell maturation and function
Clare Hamilton, Ireland

PO3.35 Primary and secondary responses of young lambs to Trichostrongylus colubriformis experimental infections: Kinetics and individual variations
Philippe Jacquet, France

PO3.36 Local cytokine response during the early stages of infestation by Hypoderma lineatum (Diptera:Oestridae)
Ceferrino Lopez-Sandez, Spain

PO3.37 Cellular proliferation and invasion efficiency of different Neospora caninum isolates
Luis Ortega-Mora, Spain

PO3.38 Evaluation of the proinflammatory cytokines TNF-alpha and IFN-gamma in cattle naturally exposed to warble flies (Hypoderma sp.)
Rosario Panadero-Fontan, Spain

PO3.39 Epizootiology, phylogeography and co-phylogeny of the French Heartworm, Angiostrongylus vasorum, and its hosts in North America and Europe
Kimberly Bridger, Canada

PO3.40 Identity and phylogeny of Diplostomum fish parasites of the catfish (Clarias gariepinus) in Tanzanian freshwaters based on sequence divergence on the ITS1–5.8S–ITS2 rDNA region
Fred Chibwana, Tanzania

PO3.41 Stage-specific expression of six calcium-dependent protein kinases in Cryptosporidium parvum in vitro
Viktor Dyachenko, Germany
PO3.42 Identification of genomic heterogeneity of Giardia duodenalis isolates from human and animal reservoirs by using PCR-RFLP of glutamate dehydrogenase (gdh) coding gene from the Tabriz Esmail Fallah, Iran

PO3.43 Assessing Haemonchus contortus gene function using RNA interference in transgenic Caenorhabditis elegans
Julie-Anne Fritz, Australia

PO3.44 Genomic and bioinformatic characterisation of an ADP/ATP translocase of Haemonchus contortus
Min Hu, Australia

PO3.45 The single sporozoite of Cryptosporidium andersoni contains multiple copies of 18S rRNA gene having different genotypes
Makoto Ikarashi, Japan

PO3.46 Identification of putative emodepside receptors in Ascarids
Sandra Miltsch, Germany

PO3.47 Diversity of Theileria parva in South Africa as shown by PCR-RFLP and sequence analysis of the genes coding for p104 and the polymorphic immunodominant molecule (PIM)
Kgomotso Sibeko, South Africa

PO3.48 Characterization of multiple acetylcholinesterases and relationship to organophosphate resistance in the Southern cattle tick, Rhipicephalus (Boophilus) microplus
Kevin Temeyer, United States

PO3 – TRICHINELLA

PO3.49 Preliminary characterization of excretory-secretory protein extracts of Trichinella spiralis and Trichinella britovi muscle-stage larvae by two-dimensional electrophoresis
Justyna Bien, Poland

PO3.50 Muscle distribution of domestic Trichinella larvae in natural infected pigs
Radu Blaga, Romania

PO3.51 qPCR for detection of Trichinella spp. in potential Australian wildlife hosts
Leigh Cuttell, Australia

PO3.52 Serological detection of anti-Trichinella antibodies in wild red foxes (Vulpes vulpes) in Norway using E/S antigen and -tyvelose glycan antigen in an indirect E LISA
Rebecca Davidson, Norway

PO3.53 Wild boar distribution in areas with Trichinella findings in red foxes: A risk for game meat consumption?
Georg Duscher, Austria

PO3.54 Prevalence and infectivity to experimental rodents of Trichinella sp. obtained from J apanese black bears in Iwate Prefecture, J apan
Tadashi Itagaki, J apan

PO3.55 Wild animals as reservoirs of Trichinella spp. in the Patagonic region
Silvio Krivokapich, Argentina

PO3.56 Potential use of deglycosilated Trichinella spiralis muscle larva excretory-secretory products for the early diagnosis of trichinellosis and to evaluate albendazole treatment efficacy
Maria Del Rosario Salinas-Tobon, Mexico

PO3.57 Gene responses in rat intestine during early phase of Trichinella infection
Antti Sukura, Finland

PO3.58 Protein profiling for swine with Trichinella spiralis infection in Thailand
Duangkhamol Suraruangchai, Thailand

PO3.59 Trichinella pseudospiralis in the Eastern Slovakia: A guest or a resident?
Marian Varady, Slovakia

PO3.60 Trichinelasis in Russia: History and prospects of methodology and technical set-up progress for Trichinella invasia control of slaughter animal meat
Andrew Vodnev, Russian Federation

PO3.61 Labor consuming in magnetic stirer method and Gastros usage: a comparative study
Andrew Vodnev, Russian Federation

PO3 WATER-BORNE PROTOZOA

PO3.67 Detection and identification of Cryptosporidium species in water samples from a river in Ardabil City, Northwestern Iran
Esmail Fallah, Iran

PO3.68 Assessment of helminthological contamination in drinking water sources of Kathmandu Valley Nepal
Durga Joshi, Nepal

PO3.69 Giardia, Cryptosporidium and microsporidia infections in wild animals from a deforestation area in the state of São Paulo, Brazil
Maria Lalio, Brazil

PO3.70 Survey of Cryptosporidium spp, Giardia spp. and microsporidia infections in capibaras and opossums in an ecological park in São Paulo, Brazil
Maria Lalio, Brazil
**PO3.71** Identification of a new species of Cyclospora sp. from ducks in China  
Hicham Wadeh, China

**PO3.72** The first discovery of Cyclospora sp. from canine faeces in China  
Hicham Wadeh, China

**PO3.73** Synergistic effect of pyrantel embonate and febantel in elimination of Giardia in a gerbil model  
Merle Olson, Canada

**PO3.74** Prevalence and diagnosis of Giardia infection in dogs and cats using a faecal antigen test and faecal smear  
Merle Olson, Canada

**PO3.75** Seroprevalence and risk factors associated to Toxoplasma gondii infection in pig farms from Spain  
Sonia Almeria, Spain

**PO3.76** Seroprevalence of Toxoplasma gondii in moose and roe deer in Sweden  
Camilla Bjorkman, Sweden

**PO3.77** Risk assessment for Toxoplasma gondii in the Danish pig industry  
Jaap Boes, Denmark

**PO3.78** The Identification of Entamoeba spp. in wild African green monkeys (Chlorocebus sabaevus) on St. Kitts, West Indies  
R.C. Kreccek, Saint Kitts and Nevis

**PO3.79** Seroprevalence of toxoplasmosis (toxoplasma gondii) in pigs, goats, cattle, dogs and cats in Peninsular Malaysia  
Chandrawathani Panchadcharam, Malaysia

**PO3.80** Age-related infection and transmission pattern of human cysticercosis in southern Ecuador  
Nicolas Praet, Belgium

**PO3.81** Determination of morphologic characters of intestinal helminthes in dog  
Arash Sattari, Iran

**PO3.82** Prevalence of specific antibodies against Toxoplasma gondii in sheep in the Czech Republic  
LASTA Svobodova, Czech Republic

**PO3.83** Genotyping of Toxoplasma gondii isolates in capybaras (Hydrochaeris hydrochaeris) from São Paulo state, Brazil  
Lucia Yai, Brazil
GENERAL CONFERENCE INFORMATION

Basic Conference Information
Conference sessions are being held at the Calgary TELUS Convention Centre located in the heart of downtown Calgary.

Official Language
The official language of the World Association for the Advancement of Veterinary Parasitology 2009 Conference is English.

Registration and Programme Distribution
The WAAVP 2009 Registration & Information Desk will be located in the Exhibition Hall Foyer on the upper level of the North Building. The Registration & Information Desk will be open to provide registration packages and information to Conference participants.

The Registration & Information Desk will be open during the following hours:
- Sunday, August 9: 13:00 – 21:00
- Monday, August 10: 07:30 – 18:30
- Tuesday, August 11: 07:30 – 18:30
- Wednesday, August 12: 07:30 – 15:00
- Thursday, August 13: 07:30 – 18:30

Exhibitor Registration
The Exhibitor Registration Desk will be located with the main Registration desk in the Exhibition Hall Foyer. Exhibitors should report to the Conference Registration & Information Desk at the location and hours noted above.

Name Badges
Attendees and guests must wear their name badges at all times in order to participate in the Welcome Reception, Opening Ceremony, Scientific Sessions, Coffee Breaks and Exhibition.

Name Badge & Ribbon Identification

Name Badge Colors
- Full Registration Delegate – Red
- Single Day Participant – Orange
- Accompanying Person - Yellow
- Exhibitor – Green
- Staff - Black

Ribbon Identification
- Local Organizing Committee
- Scientific Committee
- Invited Speaker
- Session Chair
- Exhibitor
- Sponsor
- Volunteers

Name Badge Access

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<tr>
<th>Name Badge Identification</th>
<th>Conference Bag</th>
<th>On-Site Program &amp; Abstract Book</th>
<th>Scientific Sessions</th>
<th>Welcome Reception</th>
<th>Opening Ceremony</th>
<th>Exhibit Hall &amp; Coffee Breaks</th>
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Conference Evaluation Form
Participants are asked to complete the Conference Evaluation Form and return it to the Registration & Information Desk before the end of the Conference.
Poster Sessions

Each Poster presentation will be on display for an equal amount of time with an author stand-by time during each day’s Poster Session. Poster presenters are required to adhere closely to the scheduled time period by putting up their posters by and removing them on the scheduled times.

PO1 - POSTER SESSION 1
Poster Session Date: Tuesday, August 11, 2009
Poster Session Location: Exhibit Hall CD
Poster Session Time: 08:00-09:00

Author Stand by time: 08:00-09:00
Poster set-up Day / Time: Monday, August 10, Lunch Break / 12:30-13:00
Poster Removal day / time: Tuesday, August 11, Morning Break / 11:00-11:30
Poster Size: 4 x 4

PO2 - POSTER SESSION 2
Poster Session Date: Wednesday, August 12, 2009
Poster Session Location: Exhibit Hall CD
Poster Session Time: 08:00-09:00
Author Stand by time: 08:00-09:00
Poster set-up Day / Time: Tuesday, August 11, Lunch Break / 12:30-13:00
Poster Removal day / time: Wednesday, August 12, Morning Break / 10:30-11:00
Poster Size: 4 x 4

PO3 - POSTER SESSION 3
Poster Session Date: Thursday, August 13, 2009
Poster Session Location: Exhibit Hall CD
Poster Session Time: 08:00-09:00
Author Stand by time: 08:00-09:00
Poster set-up Day / Time: Wednesday, August 12, Lunch Break / 12:30-13:00
Poster Removal day / time: Thursday, August 13, Afternoon Break / 15:30-16:00
Poster Size: 4 x 4

Speaker Ready Room

The Glen 210 Room, located on the upper level of the South Building of the Calgary TELUS Convention Center, has been designated as the Speaker Ready Room. Computers will be available for speakers to preview and edit their presentations. Speakers are encouraged to report to the Speaker Ready Room the day prior to their scheduled presentation.

Presentation is required to be submitted via the speaker Ready Room prior to the presentation time. The presentations will be uploaded to the session rooms twice daily, once at 07:30 and once at 13:00, presentation must be received prior to these times in order to be loaded into the session rooms on time.

The Speaker Ready Room will be open during the following hours:

Sunday, August 9 13:00 - 21:00
Monday, August 10 07:30 - 18:00
Tuesday, August 11 07:30 - 18:00
Wednesday, August 12 07:30 - 15:00
Thursday, August 13 07:30 - 17:00

Exhibition

The WAAVP 2009 Exhibition will be held in Exhibition Hall CD, located on the upper level of the North Building of the Conference Centre. Please refer to the Exhibitor Section for company descriptions, floor plan and exhibit booth locations. Exhibitors are requested to sign-in at the Exhibitor Registration Counter.

The Exhibit Hall will be open during the following hours:

Sunday, August 9 19:00 - 21:00
Monday, August 10 10:00 - 18:30
Tuesday, August 11 10:00 - 18:30
Wednesday, August 12 10:00 - 14:00
Thursday, August 13 07:30 - 16:00

Internet Café

The WAAVP 2009 Exhibition will feature an Internet Café. Computer terminals with high-speed Internet access will be available to conference participants at no charge; a limited number of computers will have access to printers. Please be considerate of other participants and limit your time to a maximum of 10 minutes per visit. The Internet Café will be open the same time as the Exhibit Hall:

Sunday, August 9 19:00 - 21:00
Monday, August 10 10:00 - 18:30
Tuesday, August 11 10:00 - 18:30
Wednesday, August 12 10:00 - 14:00
Thursday, August 13 07:30 - 16:00
**Coffee Breaks**

During the Conference, refreshments will be available for registered participants in the Exhibition Hall during scheduled times which can be found in the Program at a Glance on page 2 of this program.

**Lunches**

All delegates are invited to attend lunches in the exhibition hall. Please see Scientific Program for details and times.

**SOCIAL EVENTS**

**Welcome Reception**

_Sunday, August 9 • 19:00 – 21:00_
_Exhibit Hall CD, Upper Level, North Building_

The first official event of the Conference, experience a casual and relaxed evening to network and reacquaint yourself with old friends or meet new ones. The Exhibition Hall plays host to tonight’s event where you will have an opportunity to converse with all the exhibitors while enjoying light refreshments and hors d’ouvres. The perfect beginning to a great conference.

**Opening Ceremonies**

_Monday, August 10 • 08:30 – 10:00_
_Exhibit Hall E, Upper Level, North Building_

An experience not to miss, the Opening Ceremonies will highlight past achievements, welcome and honor dignitaries while looking to future opportunities. A touch of Canadian History, Native Performers culminate into a morning that you don’t want to miss.

**Presidents Reception**

_Monday, August 10 • 19:00 – 23:00_
_Heritage Park_

The Presidents Reception begins with a 15-minute transfer to Heritage Park where guests will be transferred back in time and discover how the West was won. The early 1900’s come to life at the park as guests stroll the grounds an experience Canada’s history from the beginnings of the Northwest Mounted Police Barracks known today as the Royal Canadian Mounted Police. Traditional dress and costumed town folk will provide insight as guests stroll the grounds. For full enjoyment of this venue, grounds and spectacular views guests are encouraged to wear comfortable shoes.

**Lost and Found / Messages**

Lost and Found items will be available at the Registration & Information Desk. Please check the message board in the Registration & Information area for messages.

**Pub Night**

_Tuesday, August 11 & Wednesday, August 12_

Delegates are welcome to explore the restaurants, pubs and night life of downtown Calgary. Take advantage of the two coupons found in your delegate bag from Ceili’s Pub and Restaurant and Ruth’s Chris Steak House.

**Closing Gala**

_Thursday, August 13 • 19:00 – 23:00_
_Hyatt Regency Calgary, Imperial Ballroom_

The evening reception begins with a cocktail reception in the foyer of the Hyatt outside the Grand Ballroom. Guests will have the opportunity to relax and reflect on the past week. The evenings official greeters will set the tone for the evening as guests enter the ballroom to soft background music where a culinary experience awaits. Once the final course is served, grab your partner, kick up your heels and enjoy a night of dancing as you say goodbye to old and new friends alike.

Admission to the Welcome Reception, Opening Ceremony, President’s Reception and the Gala Dinner is included in the Full Registration fee for all Delegates and Accompanying Persons. Gala Dinner not included in Single Day Registration or Exhibitor Only Registrations. Tickets can be purchased for the Gala Dinner at the Registration desk up to 17:00 on Monday, August 10.
TOURS AND EXCURSIONS

WAAVP 2009 has partnered with Brewster Inc. to bring outstanding tour opportunities to all of the delegates. Brewster Inc. has set the standard of excellence for travelling in Canada’s West and the Canadian Rockies for over 115 years. As a leader in the Canadian tourism industry, Brewster provides an integrated system through multiple businesses allowing our customers to create outstanding travel experiences in Canada.

Calgary City Sights - 4 hours
Tour Start Time: 8:30 am - Daily

This morning excursion will highlight some of the scenic and historic highlights of Calgary including Fort Calgary Historic Site and Canada Olympic Park, the site of the 1988 Winter Olympic Games. Admission to the park and a ride up the Ski Jump tower are included.

Adult  Child (6-15)
$59.00 CAD  $29.50 CAD

Beautiful Banff from Calgary with Gondola - 9 hours
Tour Start Time: 8:30 am - Daily

A full day excursion takes you from the city of Calgary into the Canadian Rockies through Alberta’s foothills and ranching country to the resort town of Banff in the Rocky Mountains. Experience our stories of the people, geology, and the building of this mountain town. This day trip includes admission to the Banff Gondola where an 8-minute gondola car takes you to the top of the mountain.

Adult  Child (6-15)
$144.00 CAD  $72.00 CAD

Banff/Lake Louise Excursion from Calgary - 13 hours
Tour Start Time: 8:30 am - Daily

Enjoy a full day excursion that takes you from the city of Calgary into the Canadian Rockies through Alberta’s foothills and ranching country to the resort towns of Banff and Lake Louise in the Rocky Mountains. Experience our stories of the people, geology, and the building of these mountain towns.

Adult  Child (6-15)
$154.00 CAD  $77.00 CAD

Mountain Lakes & Waterfalls from Calgary - 15 hours
Tour Start Time: 6:00 am - Friday & Sunday Only

Experience the Canadian Rockies grandeur - lakes, mountains, waterfalls are highlighted on this excursion. Learn how natural forces and evolution of land can shape the appearance of the lakes and streams found in this spectacular mountain setting. Lunch is included.

Adult  Child (6-15)
$154.00 CAD  $77.00 CAD

Columbia Icefield from Calgary with Ice Explorer - 15 hours
Tour Start Time: 6:15 am - Friday & Sunday Only

Travel into the Rocky Mountains and along one of the world’s most spectacular journeys to the Columbia Icefield. At the Athabasca Glacier, Brewster’s all-terrain Ice Explorers will take you on a 90-minute ice age adventure to experience ancient ice and a moving glacier.

Adult  Child (6-15)
$194.00 CAD  $97.00 CAD

Calgary and the surrounding area have an unlimited number of sights to see and things to experience. Tickets for these tours and other scheduled tours can be purchased at the tour desk, located next to the Registration desk, Exhibition Hall Foyer, Upper level, North Building.

The tour desk will be open the following days and times:

- Sunday, August 9 13:00 - 18:00
- Monday, August 10 10:00 - 14:00
- Tuesday, August 11 10:00 - 14:00
- Wednesday, August 12 10:00 – 14:00

All tours will depart from and return to the Calgary TELUS Convention Centre.

Ticket holders of tours are requested to be at the meeting point at least 15 minutes before the tour is scheduled to depart. If you miss the departure no refunds will be given.
LOCAL INFORMATION

Calgary
Calgary is a cosmopolitan city set in the rolling foothills of the western province of Alberta which is located directly north of the State of Montana, USA. The majestic Canadian Rockies are less than an hour’s drive from the city centre of Calgary. Calgary exemplifies the blending of their cattle ranching roots (revisited in Heritage Park and the historic BarU Ranch) with the surging and dynamic oil and gas industry, the blossoming technology sector and a world class panoply of cultural, dining and shopping experiences. In Calgary you will find the world renowned Spruce Meadows Equestrian Centre and the EPCOR Centre, home of the Calgary Philharmonic, and the University of Calgary with its newly minted Faculty of Veterinary Medicine.

Hotels
There are four hotels that were contracted to accommodate WAAVP guests. The Hyatt Regency and the Calgary Marriott are connected to the Calgary Telus Convention Center. The Fairmont Palliser is connected to the Calgary Telus Convention Center via a pedway and the Sheraton Suites Calgary Eau Claire is within walking distance to the Convention Centre.

Banks / Currency Exchange
Banks throughout Calgary are open Monday to Thursday from 10:00 to 15:00, Friday from 10:00 to 17:00 (or 18:00) and Saturday morning.

Credit Cards
Credit cards (including American Express, Visa and MasterCard) are welcome at most establishments throughout Calgary and across Canada.

ATMs
Cirrus and Plus ATMs are plentiful in Calgary and conveniently placed. Before arriving in Canada, do make sure that your PIN number will be accepted in Canadian machines.

Taxes
Alberta is the only province in Canada with no Provincial Sales Tax (PST). However, there is a four per cent Tourism Levy on hotel rooms. The federal government charges a five per cent Goods & Services Tax (GST) on most purchases.

Tipping
Restaurant tipping is left to customer discretion, but the customary (and expected) amount is 15 per cent (there is debate about whether this is calculated before or after tax). Many restaurants automatically add a gratuity (tip) to the bill for large groups (six to eight or more). It is also customary to tip bellhops, luggage handlers and taxi drivers, at your discretion.
Electricity
Canada operates on 110V, 60 cycle electric power, which is the same as in the United States. Non-North American visitors should bring a plug adaptor if they wish to use their own small appliances from home (razors, hair dryers, etc). If you are visiting from countries, such as Australia, that use a higher voltage, you may encounter problems charging your rechargeable batteries. Canadian electrical goods come with either a two-pronged plug, which is the same as the US, or a three-pronged plug; most sockets accommodate both.

Emergency Call
The emergency number for all health, safety and crime emergencies is 911.

Smoking
Smoking is not permitted at the Conference facilities. The City of Calgary has public health regulations that prevent smoking in public buildings, on public transportation and in all restaurants.

SPONSORSHIP & EXHIBITION
We would like to thank the following sponsors for their support:

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EXHIBITION GENERAL INFORMATION

EXHIBIT LOCATION
The 22nd WAAVP Conference Exhibition will be held at the Calgary TELUS Convention Centre. The Exhibition Hall will be Exhibition Hall CD, upper level of the North building.

EXHIBITION HOURS
The Exhibit Hall will be open during the following hours:
- Sunday, August 9, 2009: 19:00 – 21:00
- Monday, August 10, 2009: 10:00 – 18:30
- Tuesday, August 11, 2009: 10:00 – 18:30
- Wednesday, August 12, 2009: 10:00 – 14:00
- Thursday, August 13, 2009: 10:00 – 16:00

EXHIBITION HALL HIGHLIGHTS
Internet Café
An Internet Café is available (at no charge) to all participants during the Conference. The Internet Café will be located in the Exhibition Hall and open during show hours.

EXHIBITION HALL EVENTS
Welcome Reception
- Sunday, August 9, 2009: 19:00 – 21:00

Poster Sessions
- Tuesday, August 11, 2009: 08:00 – 09:00
- Wednesday, August 12, 2009: 08:00 – 09:00
- Thursday, August 13, 2009: 08:00 – 09:00

Coffee Breaks & Lunches
The Exhibit hall will be the location for all coffee breaks and lunches. Please see your scientific program for times.
- Thursday, August 13 – Coffee Breaks sponsored by Elanco a division of Lilly

EXHIBITOR LISTING
Exhibitor Listing Alphabetically
- Bayer Healthcare AG Animal Health – Booth #508
- Bio Rad Laboratories – Booth #420
- Elanco a division of Lilly – Booth #421, 520
- Fort Dodge – Booth #118
- ICOPA – Booth #205
- International Commission on Trinchinellosis – Booth #302
- Merial – Booth #312
- Novartis – Booth #404
- Petrolaser – Booth #321
- Pfizer Animal Health – Booth #320
- Prionics AG – Booth #310
- WAAVP 2011, Argentina – Booth #331

Exhibitor Listing by Booth #
- Fort Dodge – Booth #118
- ICOPA – Booth #205
- International Commission on Trinchinellosis – Booth #302
- Prionics AG – Booth #310
- Merial – Booth #312
- Pfizer Animal Health – Booth #320
- Petrolaser – Booth #321
- WAAVP 2011, Argentina – Booth #331
- Bio Rad Laboratories – Booth #420
- Elanco a division of Lilly – Booth #421, 520
- Novartis – Booth #404
- Bayer Healthcare AG Animal Health – Booth #508

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EXHIBITOR DESCRIPTIONS

**Bayer Animal HealthCare AG – Booth# 508**
Bayer Animal Health, part of Bayer HealthCare AG, is one of the world’s leading suppliers of veterinary solutions. The division produces and distributes more than 100 different animal health and care products for livestock and companion animals worldwide with a focus on parasiticides and is ranked number four internationally.

**Bio-Rad Laboratories – Booth# 420**
Bio-Rad Laboratories, Inc. (NYSE: BIO and BIOb) has remained at the center of scientific discovery for more than 50 years manufacturing and distributing a broad range of products for clinical diagnostics and life science research markets. The company is renowned worldwide among hospitals, universities, major research institutions, biotechnology and pharmaceutical companies for its commitment to quality.

**Elanco a division of Lilly – Booth# 421, 520**
Building on an outstanding legacy in human and animal health, Elanco offers innovative, best-in-class products to help veterinarians help pets live longer, healthier, higher-quality lives. Elanco has introduced two products into the marketplace: Reconcile® (fluoxetine hydrochloride) and Comfortis® (spinosad). To learn more about Elanco’s support of the veterinary profession, please visit the Elanco booth or visit www.ElancoPet.com.

**Fort Dodge – Booth# 118**
Fort Dodge Animal Health is a leading manufacturer and distributor of animal health products for the companion animal, equine, livestock, swine and poultry industries in North America and international markets. Fort Dodge is making a difference in the future of animal health through innovative research and product development that address current and emerging animal health needs.

**ICOPA – Booth# 205**
The XIIth International Congress of Parasitology (ICOPA), 15-20th August 2010, Melbourne, Australia will be a ‘must attend’ conference not only for the excellence of the science (including veterinary parasitology) but also the ambience and charm of one of the most liveable cities in the world. Visit www.icopaxii.org to register interest or submit an abstract.

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Last year, 91% of UK dairy farms tested had a high level of worm infection.

Worms damage milk yield, which damages profits. By simply worming with Eprinex, you can effectively treat and protect against worms, which can help you get extra milk from your herd. Don’t delay, treat with Eprinex today.
The International Commission on Trichinellosis – Booth# 302
The International Commission on Trichinellosis (ICT) is an international scientific organization comprised of individuals who are interested in any aspect of Trichinella and trichinellosis. The principal purposes of the Commission are research on, and control of, Trichinella infection in animals and man.

Merial – Booth# 312
Merial is a world-leading, innovation-driven animal health company, providing a comprehensive range of products to enhance the health, well-being and performance of a wide range of animals. Merial employs approximately 5,400 people and operates in more than 130 countries worldwide. Its 2008 sales were over $2.6 billion. Merial Limited is a joint venture between Merck & Co., Inc. and sanofi-aventis. For more information, please see www.merial.com.

Novartis Animal Health – Booth# 404
We focus on the well-being of companion animals and the health and productivity of farm animals. Our extensive product range provides solutions for the prevention and treatment of various widespread animal diseases and parasite infestations. Headquartered in Basel, Switzerland, and present in almost 40 countries, Novartis Animal Health employs approximately 2,600 associates worldwide.

Petrolaser – Booth# 321
Petrolaser Co., (St. Petersburg, Russia), is doing research, design, production and sales of hi-tech laboratory equipment for veterinary science and practices, with 46 qualified employers on board. R&D cooperation in parasitology - with Academy of Veterinary Medicine; State University of Applied Biotechnology, Moscow. Scientific magazine “Praktik”- published since 1998 (in Russian).

Pfizer Animal Health – Booth# 320
Pfizer Animal Health, a Pfizer Inc., business unit is a world leader of innovative animal vaccines and prescription medicines. Pfizer Animal Health is committed to a safe, sustainable global food supply with healthy livestock and poultry, and to helping horses and pets live longer, healthier lives. For additional information on Pfizer Animal Health’s portfolio, visit www.PfizerAH.com

Prionics AG – Booth# 310
Prionics AG, based in Zurich, Switzerland, is a leading provider of farm animal diagnostics and a recognized center of expertise in BSE and prionics diseases. Founded in 1997, Prionics researches and markets innovative diagnostic solutions for major farm animal diseases, contributing significantly to the protection of consumer health.

WAAVP 2011 - Argentenia
In Gent, during the XXI WAAVP Conference 2007, AAPAVET together with the Argentine Society of Veterinary Medicine, were designated by the Executive Committee to organize the XXIII WAAVP Conference 2011 in Argentina.

This shall be the first time that Argentina will host the biannual Conference and their many colleagues and friends from all over the world working in the advancement of veterinary parasitology. We consider the high honour conferred is worthy of our greatest efforts to make you all welcome and at home in our country and meet our friendly population, both in Buenos Aires, as in our splendid and varied tourist centres in our extended country which no doubt many will make time to visit.

The Conference will be held in Buenos Aires, from the 21st to 24th August 2011, in an adequate hotel located downtown, and the scientific committee is working hard to conform a programme that will be of great interest in the many fields of our science. Please register your name and e-mail at our booth (nº 331) to receive information, call for papers, registration forms and other material.

Argentina is known for its great cattle breeding and grain production profile. This has led to leadership in the world production of food, qualified veterinary professionals working hand-in-hand with producers, and during the last 30 years, a greater participation of research centres in parasitology in the world scientific community, in areas such as helminthology, protozoology, immunoparasitology, new advances in control, vaccine immunization, pharmacology and in control of external parasites, among others. The veterinary industries export their top-grade products to many countries.

AAPAVET invites you to share our vision of the future in our specialization and listen to your news and grow scientifically from your knowledge and contributions.

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You're invited... Too Hot to Resist: Managing the Evolving Cyathostomin Challenge
A Scientific Seminar Sponsored by Fort Dodge Animal Health

Speakers: Drs. Kaplan, von Samson-Himmelstjerna and Traversa
Tuesday • August 11, 2009 • 10-11 a.m.
During the WAAVP Conference, Exhibition Hall E (Main Plenary Room)
Parasitology and vector-borne diseases
Merial promotes scientific exchanges

- Human and climatic factors influence epidemiological changes

As most vector-borne diseases affect both man and animals (zoonoses), their management requires a multidisciplinary approach. These diseases are transmitted by the bite of hematophagous arthropods, mainly ticks and mosquitoes. The emergence of new diseases, or re-emergence of existing ones, sometimes with changes in their epidemiology has prompted Merial to review the changes in geographical distribution, prevalence and pathogenicity of vector-borne diseases and their possible causes. Recent Merial Symposia in Zagreb (Croatia, October 06), in Marseille (France, June 2007) and in Tuzla (Bosnia, April 2008) confirmed that the frequency of some vector-borne diseases is increasing in Europe and that pathogens circulate more easily.

- Pathogens to watch closely

The role of various factors is now confirmed by the specialists. The development of individual housing with gardens, the creation of parks and even artificial lakes, efforts to protect wild fauna and to rehabilitate forests have all created conditions favourable to the proliferation of arthropod vectors of these diseases. Measures to protect wild fauna, combined with land rehabilitation and management practices, particularly in forestry, resulted in a proliferation of red deer, roe deer, wild boar and foxes which are all hosts for hematophagous arthropods acting as vectors of pathogens.

The creation of parks and the general development of open air activities such as trekking, mountain biking, jogging or gardening increase the risk of tick bites, and are responsible for the rising frequency of Lyme borreliosis. The building of artificial dams in certain parts of the world, combined with acute climate phenomena associated with global warming also promote a demographic explosion of vector populations. In addition, small variations in temperature and humidity levels have rapid effects on arthropod populations (flies, ticks, mosquitoes, sandflies and Culicoides).

The explosion of the transport of products, sport or leisure animals and of humans travelling to increasingly distant locations, often with their pets, promote exchanges from one region to another and consequently increase the spread of pathogens and their contamination potential. More and more Northern Europeans travel south during the summer. Finally, climate changes, especially the decrease of a winter period, is changing the distribution, density and activity of vectors.

- Multidisciplinary mobilisation for a multi-faceted problem

Within the last ten years, "new" diseases have been reported in horses or carnivores, e.g. babesiosis in Germany, the Netherlands and Belgium, canine monocytic ehrlichiosis in Southern Europe, A. platys anaplasmiosis in France, and A. phagocytophilia anaplasmiosis in cattle, horse, dogs and cats in Northern Europe...
THE PROBLEM LIES BEHIND!

STOPS COCCIDIOSIS

One of the most critical welfare problems in piglets is diarrhoea. Research shows coccidiosis is the cause of a high percentage of piglet diarrhoea in the first weeks of life. It leads to weight reduction, retarded growth and sometimes death in pre-weaned piglets. So Bayer has developed Baycox 5%*(toltrazuril), an oral treatment exclusively for use in neonatal piglets. One dose at 3 to 6 days of age will control and protect piglets against coccidia causing diarrhoea at a critical period of life. Control coccidiosis that lies behind diarrhoea.

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