Onsite Program

Joint meeting with the 64th American Association of Veterinary Parasitologists Annual Meeting & the 63rd Annual Livestock Insect Workers Conference

www.WAAVP2019.com #WAAVP2019
# Program at a Glance

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<th>Sunday, July 7</th>
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### Plenary Lecture 1.0
**Evolving Approaches to Drug Discovery**
16:00 - 18:00
Plenary Hall, Madison Ballroom, Level 4

### Plenary Lecture 2.0
**Genes and Genomics in Parasite Control**
08:30 - 10:30
Plenary Hall, Madison Ballroom, Level 4

### Plenary Lecture 3.0
**Leishmaniasis, Leishvet and One Health**
08:30 - 10:30
Plenary Hall, Madison Ballroom, Level 4

### Coffee Break
10:30 - 11:00
Exhibit Hall, Hall A, Level 1

### Oral Breakout Presentations
11:00 - 12:30

### Lunch Break and Bayer Symposium
**News on Companion Vector Borne Diseases**
12:30 - 13:30
Plenary Hall, Madison Ballroom, Level 4

### Zoetis Product Launch and Reception
**Revolution Plus 6-in-1 Protection for Cats**
18:00 - 20:00
Plenary Hall, Madison Ballroom, Level 4

### Taste of Wisconsin - Welcome Reception
Sponsored by Bayer
18:00 - 20:00
Rooftop Gardens, Level 6

### IDEXX Product Launch and Reception
**Echinococcus Updates: Prevalence in North America and New Diagnostic Options**
18:00 - 20:00
Plenary Hall, Madison Ballroom, Level 4

### LIWC Awards Ceremony
18:00 - 19:00
Breakout Room 3
<table>
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<tr>
<th>Time</th>
<th>Wednesday, July 10</th>
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<td>Fun Run Sponsored by Boehringer Ingelheim 07:00 - 08:30</td>
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<td>08:00</td>
<td>Plenary Lecture 4.0: Veterinary Entomology: Outbreak and Advancements 08:30 - 10:30</td>
<td>Oral Breakout Presentations 08:30 - 10:30</td>
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<td>Coffee Break 10:30 - 11:00 Exhibit Hall, Hall A, Level 1</td>
<td>Coffee Break 10:15 - 10:45 Exhibit Hall, Hall A, Level 1</td>
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<td>11:00</td>
<td>Oral Breakout Presentations 11:00 - 12:30</td>
<td>AAVP, LIWC &amp; WAAVP Joint Meetings 10:30 - 12:30 Plenary Hall, Madison Ballroom, Level 4</td>
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<td>Lunch Break and Zoetis Symposium Heartworm Disease Prevention Using Controlled Compliance 12:30 - 13:30</td>
<td>Lunch Break and NCVP Clicker Session 12:30 - 13:30 Plenary Hall, Madison Ballroom, Level 4</td>
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<td>Coffee Break &amp; Poster Session 3 with Authors 15:30 - 16:30 Exhibit Hall, Hall A, Level 1</td>
<td>Closing Ceremony 15:30 - 16:00 Plenary Hall, Madison Ballroom, Level 4</td>
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<td>18:00</td>
<td>Merck Product Launch and Reception Because Science Never Stops, Merck Animal Health Works 18:00 - 20:00 Plenary Hall, Madison Ballroom, Level 4</td>
<td>Gala Dinner at the Overture Center for the Arts Supported by Eleven Bravo LLC 18:00 - 23:00</td>
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With an overall theme of Sifting and Winnowing the Evidence in Veterinary Parasitology, the Conference reminds us that we cannot for a moment believe that knowledge has reached its final goal. We honor the tremendous contributions to veterinary parasitology by University of Wisconsin Emeritus Professor Arlie C. Todd, mentor of 59 graduate students, 44 of which earned a Ph.D.
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CONFERENCE SECRETARIAT

International Conference Services Ltd.
(International Conference Services Ltd. (ICS))
Suite 300 - 1201 West Pender Street
Vancouver, BC, Canada V6E 2V2
Phone: +1 604 681 2153
Fax: +1 604 681 1049
Email: WAAVP2019@icsevents.com
Web: www.icsevents.com
Welcome Message from

Tom Kennedy
Local Organizing Committee Chair

Welcome to the 27th Conference of the World Association for the Advancement of Veterinary Parasitology (WAAVP), 64th American Association of Veterinary Parasitologist Annual Meeting (AAVP) and the 63rd Annual Livestock Insect Workers Conference (LIWC). Held at the stunning Frank Lloyd Wright designed Monona Terrace Community & Convention Center in Madison, Wisconsin, on July 7 – 11, 2019, it is the optimal time to come and experience the beauty of Wisconsin.

With an overall theme of Sifting and Winnowing the Evidence in Veterinary Parasitology, the Conference reminds us that we cannot for a moment believe that knowledge has reached its final goal. We honor the tremendous contributions to veterinary parasitology by University of Wisconsin Emeritus Professor Arlie C. Todd, mentor of 59 graduate students, 44 of which earned a Ph.D. I am proud to be one of them.

Your time in Madison will be busy. WAAVP 2019 received more than 650 abstracts covering almost every facet of veterinary parasitology. There will be over 300 oral presentations and 300 plus poster presentations, with additional activities planned for each evening. There will be several awards presented by the organizing groups to celebrate distinguished accomplishments in our science and to recognize accomplishments at all levels. Part of what we do best is celebrate success, be a part of that celebration.

The WAAVP Fun Run is Wednesday morning along Lake Monona, bring your “A” game! Plan to explore the nearby Capitol Square and State Street, with iconic views of the social fabric of the great University of Wisconsin. I hope you arrived early for the Saturday Farmer’s Market on the Square, and plan to listen to the Concert on the Square after the presentations Wednesday evening.

WAAVP 2019 is very thankful to all sponsors for financial support of our activities and of travel awards to every student that needed help to attend. More than 140 students are part of this conference, a great hope for the science. The generous sponsorship will make your experience in Madison even more enjoyable. Please thank them for their support.

Thank you for joining us in Madison, we hope that you enjoy your time in the state that invented summertime fun!

Tom Kennedy, Ph.D.
Conference Chair
Welcome Message from

Douglas D. Colwell
WAAVP President

A hearty welcome to Madison and the 27th meeting of the World Association for the Advancement of Veterinary Parasitology. Welcome also to the annual meeting of the American Association for Veterinary Parasitology and the Livestock Insect Workers Conference who have graciously agreed to join with the WAAVP at the wonderful, Frank Lloyd Wright designed Monona Centre. This great event marks ten years since we last joined with like-minded folks to enjoy some great science mingled with great convivial events, a Fun Run and a great dinner. Hope to see you all at this marvelous event.

Sincerely,

Douglas D. Colwell, Ph.D., FRES, Assoc. EVPC
President, World Associate for the Advancement of Veterinary Parasitology
Welcome Message from

John Gilleard
AAVP President

On behalf of AAVP, I would like to welcome you to the 27th Conference of the World Association for the Advancement of Veterinary Parasitology conference (WAAVP), 64th American Association of Veterinary Parasitologist Annual Meeting (AAVP) and the 63rd Annual Livestock Insect Workers Conference (LIWC). Tom Kennedy and the organizing committee have put together a tremendous program and this is shaping up to be an excellent conference with over 650 abstracts. AAVP has much in common with both WAAVP and LIWC and this joint meeting provides our memberships with tremendous opportunities to network with veterinary parasitologists and ectoparasite experts from across the globe. Our associations have a great track record of previous collaborative meetings in recent years with excellent combined meetings with WAAVP in Calgary in 2009 and with LIWC in Boston in 2015. This year’s meeting in Madison, combining our three associations, promises to build on this success with even more scientific diversity and opportunities for interdisciplinary interactions between our members. I am really looking forward to seeing you all in the July Madison sunshine.

John Gilleard BVSc PhD DipACVM MRCVS
AAVP President.
Welcome Message from  
Sonja L. Swiger  
LIWC President

Welcome to Madison, WI and the 27th Conference of the World Association for the Advancement of Veterinary Parasitology, the 64th Annual American Association of Veterinary Parasitology and the 63rd Annual Livestock Insect Workers Conference.

This year will be extra special as we use the occasion to meet internationally known experts and converse with colleagues from all over the world while exploring all that Madison has to offer. One of the most important aspects of the conference this year is the level of professional development opportunities available and the potential future collaborations among experts.

Enjoy the joint National conference while also enjoying Madison, WI. Your presence at this momentous event is an indication of your commitment to the health of companion and livestock animals as it pertains to parasites.

Sonja L. Swiger, PhD  
Texas A&M AgriLife Extension  
LIWC Executive Committee Representative
Greetings, WAAVP!

As a born-and-raised Wisconsinite, it is my pleasure to be able to welcome you to our state’s capital city for the 27th Conference of the World Association for the Advancement of Veterinary Parasitology.

I’m especially excited to welcome you to summer in Madison—one of the best times of the year to be here. From our biking and hiking paths that travel along our lakes and throughout our cityscape and University of Wisconsin-Madison campus, to sitting on the Terrace at Memorial Union, to touring our State Capitol, to our exceptional local restaurants, shops, and attractions, Madison offers something for everyone.

We hope you feel right at home and have a chance to experience everything that the greater Madison area has to offer with our special brand of Midwestern hospitality. I hope that you will enjoy your visit, and I wish you the best for a successful conference.

Sincerely,

Tony Evers
Governor of Wisconsin
Welcome Message from

Joe Parisi
Dane County Executive

July 1, 2019

It’s with great excitement that I welcome the 27th Conference of the World Association for the Advancement of Veterinary Parasitology to Dane County! We are excited to host your event and hope you enjoy all that our area has to offer.

Dane County is home to more than 60 cities, villages, and towns that are sure to provide a great setting for your 2019 Conference. Our area’s scenic outdoor locations and community offerings create an excellent atmosphere for everyone to enjoy. From our many lakes and trails to our community events and award-winning restaurants, there is a lot to see and do. I would encourage you to explore our area and experience what all makes Dane County such a great place to visit.

I wish you an enjoyable and successful conference. Enjoy your stay in Dane County!

Sincerely,

Joe Parisi
Dane County Executive
Welcome Message from

Satya Rhodes-Conway
Mayor of Madison

July 1, 2019

Dear WAAVP Attendees,

Welcome to Madison! As Mayor, I am thrilled that the 27th Conference of the World Association for the Advancement of Veterinary Parasitology (WAAVP) has chosen our city for your 2019 conference. We celebrate the collaborative spirit that allows for a joint meeting between the World Association for the Advancement of Veterinary Parasitology (WAAVP), American Association of Veterinary Parasitologists (AAVP) and the Livestock Insect Workers Conference (LIWC).

While in Madison, I hope you will take time to enjoy our city. Madison’s vibrant downtown, cultural attractions and endless recreational opportunities offer the perfect complement to your conference. From unique shops, amazing restaurants, the State Capital and the University of Wisconsin-Madison, all within a short walking distance, there is something wonderful for everyone to enjoy while in our beautiful city.

On behalf of all Madison residents, businesses and organizations, please accept my warmest welcome to your national and international delegates, and accept our invitation to experience all that is Madison. I am confident your group will experience a memorable stay while in our Capital City. Best wishes for a successful conference!

Sincerely,

Satya Rhodes-Conway, Mayor
## Organizing Committee Members

### LOCAL ORGANIZING COMMITTEE

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<th>President of WAAVP:</th>
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<td>Doug Colwell</td>
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- Dwight Bowman
- Ann Donoghue
- Alan Marchiondo
- Mason Reichard
- Craig Reinemeyer
- Dan Snyder

### SCIENTIFIC COMMITTEE

- Lyric Bartholomay
- Edwin Claerebout
- Richard Endris
- Christian Epe
- Alvin Gajadhar
- Robin Gasser
- Timothy Geary
- Nancy Hinkle
- Chandra Panchadcharam
- Domenico Otranto
- James Wasmuth

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Members of the Local Organizing Committee from left to right: Tom Kennedy, Beverly Kennedy, Doug Colwell, Ann Donoghue, Dwight Bowman, Dan Snyder and Craig Reinemeyer.

Missing from image, Mason Reichard.
American Association of Veterinary Parasitology (AAVP)

The American Association of Veterinary Parasitologists (AAVP) is a non-profit, scientific and educational organization founded in 1956 with approximately 300 members. Most members are from the United States and Canada with about 10% of members from other countries outside of North America.

AAVP members are practitioners, educators, and scientists from academia, industry, and government interested in parasites of companion, food-producing, and domesticated animals and wildlife, some of which are transmissible to humans. Members of AAVP study these parasites to ultimately find new or better ways to diagnose, prevent, treat, or reduce infections in animals and in humans.

The mission of the AAVP is to lead and partner with our members in advancing veterinary parasitology education, research, practice and service to improve human and animal health.

President: John Gilleard
President-Elect & 2018 Program Chair: Mason Reichard
Vice-President: Doug Carithers
Secretary/Treasurer: Adriano Vatta
Immediate Past-President: Dan Zarlenaga
Student Representatives: Ashley Steuer and Grace VanHoy

For more information, please visit the AAVP website: www.aavp.org

Members of the AAVP Executive Committee at the 2019 mid-year meeting in Snowbird, Utah.
Back row: Adriano Vatta, Secretary/Treasurer; Dan Zarlenaga, Immediate Past-President, Doug Carithers, Vice-President; Mason Reichard, President-Elect; Al Marchiondo, Executive Secretary. Front row: John Gilleard, President; Ashley Steuer, 2019 Student Representative; Grace Vanhouy, 2020 Student Representative.
Livestock Insect Workers Conference (LIWC)

The Livestock Insect Workers Conference (LIWC) is a professional society of veterinary entomologists in North America who conduct research to control insect pests of animals. The LIWC also serves to disseminate information about new products or novel methods for the control of animal ectoparasites such as mites, ticks, and biting flies. Members of the LIWC hold an annual conference to share knowledge and recognize members for exceptional achievement or service.

Chair of the LIWC Executive Committee: Sonja Swiger
• Kateryn Rochon,
• Beto Perez de Leon
• Jim Hunter
• Alec Gerry
• Bill Donahue

For more information, please visit the LIWC website: www.liwconline.org

World Association for the Advancement of Veterinary Parasitology (WAAVP)

WAAVP is a non-profit, organization for scientists who study helminthology, protozooology and entomology. Founded in 1963, the association is the largest international veterinary parasitological organization in the world.

WAAVP is the largest international veterinary parasitological organization in the world. Its purpose, the WAAVP holds a biennial conference attracting attendees from around the globe. The conferences cover all aspects of veterinary parasitology. Other conference activities include award presentations, special symposia and workshops and discussions mixed with a good helping of fun!

President of WAAVP
Doug Colwell

Secretary-Treasurer
Richard Wall

Past-President
Peter Holdsworth

1st Vice President
Barry Hoskins

2nd Vice President
Carlos Lanusse

Director
• Reuben Sharma
• Dwight Bowman
• Maggie Fisher
• Domenico Otranto
• Frederick Beugnet
• Tim Geary

For more information, please visit the WAAVP website: www.waavp.org
## Awards

### WAAVP Awards
- Excellence in Research, Teaching or Service
- Peter Nansen Young Scientist Award

### LIWC Awards
- Industry Appreciation Award
- Lifetime Achievement Award in Livestock Entomology

### AAVP Awards
- AAVP-Boehringer Ingelheim Distinguished Veterinary Parasitologist Award
- AAVP Distinguished Service Award
- AAVP William C. Campbell One Health Award
- AAVP-Merck Outstanding Graduate Student Award
- AAVP-CAPC Graduate Student Award in Zoonotic Disease

### Student Travel Awards for the WAAVP 2019 Conference
- Supported by:
  - Boehringer-Ingelheim Animal Health
  - ConVet GmbH & Co. KG
  - Farnam
  - IDEXX Laboratories
  - Louisiana State University - LSU
  - Midamerica Ag Research
  - VIRBAC
  - WAAVP African Foundation

### Student Travel Award Winners

- **Karen Akashi**, Fundação De Desenvolvimento Da Pesquisa Do Agronegócio, Brazil
- **Bruno Alberigi**, Universidade Federal Rural do Rio de Janeiro, Brazil
- **Yosra Amdouni**, university of bern, Switzerland
- **Sawsan Ammar**, University Of Tennessee, Knoxville, United States
- **Haley Anderson**, University of Kentucky Maxwell H. Gluck Equine Research Center, United States
- **Nicole Andre**, Cornell University, United States
- **Charluz Arocho**, Texas A&M, United States
- **Abeeaa Asghar**, University of Veterinary and Animal Sciences, Lahore, Pakistan
- **Jillian Athey**, Texas A&M College of Veterinary Medicine, United States
- **Saidal Ali Bah**, Uludag University/ Department of Livestock Service, Gambia
- **Kacie Baker**, University of New England, Australia
- **Mariam Bakshi**, United States Department of Agriculture, United States
- **Paulius Baltrusis**, Swedish University of Agricultural Sciences, Sweden
- **Jennifer Bellaw**, University of Kentucky, United States
- **Emily Bencosme-Cuevas**, Texas A&M University, United States
- **Charlotte Smith Bonde**, Ivh, Copenhagen University, Denmark
- **Lea Bordes**, INRA, France
- **Emma Borkowski**, Ontario Veterinary College, Canada
- **Antonio Bosco**, University of Naples Federico II, Italy
- **Emily Brinker**, Auburn University, United States
- **Jennifer Cain**, University of Kentucky, United States
- **Nichola Calvani**, The University of Sydney, Australia
- **Candelita Canton**, Centro de Investigación Veterinaria de Tandil (CIVETAN), Facultad de Ciencias Veterinarias, UNCPBA, Argentina
- **Briana Cappiello**, Lincoln Memorial University College of Veterinary Medicine, United States
- **Verónica Castilla Gómez de Agüero**, University of León, Spain
- **Maria Alfonsoa Cavaleria**, University Of Bari, Italy
- **Bailey Chalut**, University Of Rhode Island, United States
- **Zhenzhen Chen**, Ghent University, Belgium
- **Shivani Choudhary**, Iowa State University, United States
- **James Collins**, University of Georgia, United States
- **Abhilasha Dadhich**, Rajasthan University of Veterinary and Animal Sciences, India
- **Camila De Queiroz**, University of Calgary, Canada
Student Travel Award Winners

Eranga De Seram, University Of Saskatchewan, Canada

Clayton Dilks, Northwestern University, United States

Kathryn Duncan, Oklahoma State University, United States

Abiodun Fatoba, University Of Kwazulu-natal, South Africa

Abdul Ghafar, The University of Melbourne, Australia

Parna Ghosh, Oklahoma State University, United States

Hannah Greenberg, Pennsylvania State University, United States

Jeff Gruntmeir, University of Florida, College of Veterinary Medicine, United States

Haley Hahn, Oklahoma State University, United States

Samantha Hays, Texas A&M University, United States

Zachary Heimark, University of Wisconsin-Madison, United States

Adrian Hernandez Ortiz, University of Saskatchewan, Canada

Emmanuel Hernandez, Joint Faculty of Veterinary Medicine, Kagoshima University, Japan

Hayley Hofmar-Glennon, Cornell University

Niclas Högberg, Swedish University of Agricultural Sciences, United States

Rebecca Howell, St. George's University School of Veterinary Medicine, United States

Michelle Ientile, Oklahoma State University Center For Veterinary Health Sciences, United States

Seer Ikurior, Massey University, New Zealand

Rachel Imai, University Of Guelph, Canada

Jeilzon Jaimes, Ucc, Colombia

Jeba R J Jesudoss, Cheliladurai, Iowa State University College of Vet Medicine, United States

Pablo David Jimenez Castro, University of Georgia, United States

Gina Karam, University of Manitoba, Canada

Mulisa Kebeta, University of New England, Australia

Shannon Kitchen, University of Pennsylvania, United States

Temitope Kolapo, University of Saskatchewan, WCVM, Canada

Jonathon Kotwa, Department of Pathobiology, University of Guelph, Canada

Bhagya Kulasooriya, Oklahoma State University, United States

Binalam Tsegaye Lakew, University of New England, Australia

Sidney Long, The Ohio State University, United States

Tássia Lopes do Vale, Maranhao Federal University, Brazil

Sara Lopez, Institute fur Parasitology, Justus Liebig University/ University of Antioquia, Colombia

Haifaa Mahjoub, University of Prince Edward Island, Canada

Katy Martin, Iowa State University, United States

Mark McHugh, Iowa State University, United States

Jennifer McIntyre, University of Glasgow, United Kingdom

John McKenzie, South Dakota State University, United States

Donald Lubembe Mukolwe, University of Pretoria, Kenya

Amalia Naranjo Lucena, University College Dublin, Ireland

Samantha Nixon, Institute For Molecular Bioscience, The University Of Queensland, Australia

Delphine Nkeke, Uniyao 1, Cameroon

Jamie Norris, University of Kentucky, United States

Brenda Kisia Odhiambo, International Centre Of Insect Physiology And Ecology, Kenya

Michael Okal, International Centre Of Insect Physiology And Ecology, Kenya

María Olhagaray, Udelar, Uruguay

Sougrinoma Achille Ouedraogo, University Of Liège, Belgium

Poliana Pacheco, University of São Paulo, Brazil

Alexandra Pagac, Penn State University, United States

Kelsey Paras, University Of Georgia, United States

Doyeon Park, Auburn University, United States

Victoria Pickens, Oklahoma State University, United States

Warda Qamar, College Of Veterinary And Animal Sciences, Pakistan

Evelin Rejman, University Of Guelph, Canada
Student Travel Award Winners

William Robbins, Atlantic Veterinary College - UPEI, Canada

Carolina Rocha e Silva, Universidade Federal do Maranhão, Brazil

Jessica Rotolo, University of Guelph, Canada

Luciana Cátálina Rus, University Of Agricultural Sciences And Veterinary Medicine, Romania

Nadezhda Ryabova, Saint Petersburg State Academy of Veterinary Medicine, Russian Federation

Bellonah Sakong, University of South Africa, South Africa

Meriam Saleh, Oklahoma State University, United States

John Sanders, Virginia Maryland School of Veterinary Medicine, United States

Jessica Scare Kenealy, University of Kentucky Gluck Equine Research Center, United States

Ruth Scimeca, Oklahoma State University, United States

Celeste Serrano, INIA, Uruguay

Sana Shahid, University of Veterinary and Animal Sciences, Lahore, Pakistan

Ashley Steuer, University Of Kentucky, United States

Kellee Sundstrom, Oklahoma State University, United States

Whatmore Munetsi Tagwireyi, University of Pretoria, South Africa

Layna Tarpalechee, Oklahoma State University, United States

Alec Thompson, University Of Georgia, United States

Marliese Truter, North-West University, South Africa

Elora Valderas, Universidad de León, Spain

Grace VanHoy, Ohio State University, United States

Fiorella (Fio) Vialard, University of Guelph, Canada

Chunqun Wang, Huazhong Agricultural University, China

Polly Weldon, Ross University School of Veterinary Medicine, United States

Emily Werdal, Cornell University, United States

Megan Wohlten, Oklahoma State University, United States

Magdalena Wysmolek, Warsaw University Of Life Sciences, Poland

Jerald Yam, University Of Technology Sydney, Australia

Elizabeth (Beth) Zeldenrust, University of Guelph, Canada

Haley Zynda, University of Kentucky, United States
Dr. Carlos Lanusse is a full Professor of Veterinary Pharmacology at the Universidad Nacional del Centro, Tandil, Argentina, Director of the Center for Veterinary Research (CIVETAN) and Director of the Science and Technology Center of the Argentina National Council of Research (CONICET) at Tandil. He has had an outstanding research and academic career in veterinary pharmacology oriented to improving the control of veterinary parasites. Dr Lanusse was trained as a veterinarian at the Universidad Nacional del Centro (Tandil, Argentina) (1982). Then he completed a first Doctoral degree in Veterinary Pharmacology from the Universidad Nacional de La Plata (Argentina) (1986). After that doctorate, he completed a Ph.D. program at the Institute of Parasitology, McGill University, Montreal, Canada (1991) where he worked on the pharmacology of anthelmintics used to control veterinary parasites. Since 1992 he has been acting as Scientific Director of a research program on the "Pharmacology of antiparasitic drugs in ruminants", which has received financial support from several national/international agencies. An important number of Ph.D. students and Fellowship recipients, some of which are now well established as reputed scientists in veterinary medicine, have received their training in Veterinary Pharmacology/Parasitology under Dr. Lanusse’s supervision.

He is a global leader in addressing the control of veterinary parasites by understanding drug pharmacological features and optimizing the use of veterinary anthelmintics. Dr. Lanusse and his colleagues have made fundamental contributions to our integrated understanding of the plasma disposition kinetics, tissue distribution, and biotransformation in the animal host and patterns of parasite influx/efflux/metabolism for different antiparasitic compounds in livestock animals. His contribution to the comprehension of the pharmacokinetics of antiparasitic compounds has involved not only classical analyses of blood levels of these drugs, but determining their biotransformation patterns, as well as the concentrations of the parental anthelmintic and that of its metabolites in various tissues and sites where parasites are found in the host. In addition, he has pioneered research to look at what is happening in the parasite itself in terms of active anthelmintic drug/metabolites concentrations and detoxification pathways. These studies have involved elegant in vivo and ex vivo methods. He has also contributed fundamental knowledge of the effects of inhibiting metabolism and transmembrane transport of anthelmintic drugs, at the parasite and tissue levels in the host. As he has been at the forefront of studying the interactions of antiparasitic drugs with their parasite targets, he has also applied his expertise to show ways in which novel formulations, transport modulation, and drug combinations can improve efficacy and, in part, overcome anthelmintic resistance. In summary, his leading research has not only greatly contributed basic pharmaco-parasitological knowledge about control of veterinary parasites, but has also been applied to improve the effectiveness and convenience of antiparasiticides and to reduce the effects of anthelmintic resistance. Dr. Lanusse has published well over 220 research papers in well recognized, peer-reviewed scientific journals and 35 book chapters and full conference proceedings. He clearly brings international credit to both veterinary pharmacology and parasitology research.

Presentation title: "Pharmacoo-Parasitology contribution to sustainable anthelmintic therapy in livestock". Thursday, July 11.
**2019 AAVP/Merck Animal Health Graduate Student Research Award**

Jeba R J Jesudoss Chelladurai BVSc & AH, MS, PhD, Dipl ACVM

Dr. Jeba Jesudoss Chelladurai graduated from Madras Veterinary College, India with a BVSc degree in 2011, and a MS degree in Microbiology from North Dakota State University in 2014 working on cryptic Cryptosporidium spp. She started her PhD in Veterinary Parasitology at Iowa State University in 2015 and has since been working on ABC-B transporters of ascarid worms under the supervision of Dr. Matt Brewer. She is also a National Center for Veterinary Parasitology resident. In 2018, she became ACVM board certified in Veterinary Parasitology. Jeba’s PhD research has focused on the molecular characterization of the ABC-B gene family in Toxocara canis, and on understanding mechanisms of susceptibility and resistance in helminths of veterinary importance. Her other research interests are novel anti-parasitic drug development, drug mechanisms of action and resistance, molecular and immunological diagnostic techniques, vaccine development and parasite – host interactions.

**Presentation title/abstract:** The beginning of a career in Parasitology: Challenges in studying anthelmintic susceptibility. **Thursday, July 11.**

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**2019 AAVP-CAPC Graduate Student Award in Zoonotic Disease**

Cassan N. Pulaski, MPH, DVM

Dr. Cassan Pulaski is originally from New Orleans and received her MPH and DVM degrees from Louisiana State University in 2012 and 2013, respectively. She is currently a postdoctoral research and teaching associate at the University of Georgia, while finishing up her Ph.D. and veterinary clinical parasitology residency program through LSU, funded by the National Center for Veterinary Parasitology and Merck Animal Health.

Her research is primarily focused on modeling and the epidemiology of macrocyclic lactone resistance in Dirofilaria immitis, and she has been actively engaged with the issue since 2009. During the week, her time is divided between research, teaching veterinary students, and serving as the interim director of the parasitology section of the Athens Veterinary Diagnostic Laboratory. She also has interests in delusional parasitosis and zoonotic filarial infections, both of which, she fortunately can study in her role as a diagnostician.

**Presentation title/abstract:** She will be speaking in session PL 02 – Genes and Genomics in Parasite Control (A multimodal approach to understanding macrocyclic lactone resistance in Dirofilaria immitis).
Registration

All WAAVP 2019 Conference Sessions will take place at the
Monona Terrace Community and Convention Center
1 John Nolen Dr,
Madison, WI 53703, USA
Phone: 608.261.4000
www.mononaterrace.com

Conference Registration
Registration Hours:
The Registration Desk is located down
the hall from the main entrance on Level 4 of the Monona Terrace Community and Convention Center.
Sunday, July 7 09:30 – 18:30
Monday, July 8 07:00 – 16:30
Tuesday, July 9 07:00 – 16:30
Wednesday, July 10 07:00 – 16:30
Thursday, July 11 07:00 – 16:00

The Full Conference Registration fee for participants includes:
• Access to all Scientific Sessions (except ticketed sessions & events)
• Access to the Exhibit Hall, including coffee breaks and lunches
• Conference Bag
• Conference handout, only if pre-selected (Onsite Program & Abstract USB Stick)
• Welcome Reception
• Sponsored Sessions (Breakfast, Lunch and Product Launch & Receptions), advance registration may be required
• Fun Run & Fun Run T-Shirt, advance registration is required

Guest/Accompanying Person Registration will include access to the following:
• Access to all Scientific Sessions (except ticketed sessions & events)
• Access to Exhibit Hall, including coffee breaks and lunches
• Welcome Reception
• Sponsored Sessions (Breakfast, Lunch and Product Launch & Receptions), advance registration may be required
• Fun Run & Fun Run T-Shirt, advance registration is required

One Day Registration will include access to the following:
• Access to all Scientific Sessions (except ticketed sessions & events) on day of attendance
• Access to Exhibit Hall, including coffee breaks and lunches on day of attendance
• Conference Bag
• Conference handout, only if pre-selected (Onsite Program & Abstract USB Stick)
• Sponsored Sessions (Breakfast, Lunch and Product Launch & Receptions) on day of attendance, advance registration may be required
• Fun Run & Fun Run T-Shirt, advance registration is required

Conference Materials
Abstract USB Sticks, Conference Onsite Program, Conference bags, Pens & Notepads, Fun Run T-Shirts and Name Badges can be picked up at the Registration Desk during Registration Hours. If you have not preselected the materials during the online registration process, you may only receive the materials if there are any additional copies available.

Conference Bags, Lanyards, Pens & Notepads and Name badges are sponsored by:

Lost Badge/Name Changes
A $50.00 USD fee will apply to any reprints due to onsite name changes or for lost badges.
Onsite Services and General Information

Accessibility
Elevators are available near the East and West Entrance doors as well as near the escalators leading down towards the Exhibit Hall. For more information, please enquire at the Guest Services Desk, the Registration Desk or see page 128-129 of the Conference Venue Map.

ATM
An ATM, vending machine and a change machine are available near the Gift Shop, located on Level 4 of the Monona Terrace Community and Convention Center.

Breaks with Food & Beverages
All breaks will take place in the Exhibit Hall, located in Hall A, Level 1 of the Monona Terrace Community and Convention Center, with the exception of the Sunday, July 7 coffee break which will take place right outside the Plenary Hall, Madison Ballroom (ABCD), in the Capitol Promenade Hallway.

Coffee Breaks:
- Sunday, July 7: 15:30 – 16:00
- Monday, July 8: 10:30 – 11:00
- Tuesday, July 9: 10:30 – 11:00
- Wednesday, July 10: 10:30 – 11:00
- Thursday, July 11: 10:15 – 10:45

Coffee Breaks Supported by:

[Cambrtex logo]

Virbac

Elsevier

Boehringer Ingelheim

Certificate of Attendance & Conference Evaluation Survey
Attendees can request a ‘Certificate of Attendance’ by completing the Conference Evaluation Survey. The Survey will be e-mailed to all attending delegates after the Conference. After completing the Survey, you will be able to download your Certificate of Attendance.

Please help us to improve the Conference by completing your Survey.

Charging Station
Charging Stations are available inside the Exhibit Hall, Hall A, Level 1, to charge your mobile devices.

Please see page 91 for the Exhibit Hall Hours.

Charging Station Sponsored by:
Onsite Services and General Information

Conference Venue Map
Please see page 128-129 for the map of the venue and location of all key areas.

Emergency Services
In the event of a medical, safety or criminal emergency inside the Monona Terrace Community and Convention Center, please use any house phone and dial “0”. You can also notify any staff member in person. If you are located outside the venue, please dial 911. Please also inform any staff member of the emergency after you have received appropriate assistance so that they can keep a record of the incident.

Exhibition
All exhibition will take place in the Exhibit Hall, located in Hall A on Level 1 of the Monona Terrace Community and Convention Center. Poster Sessions, Coffee Breaks and Lunches will also be held in the Exhibit Hall.

Exhibit Hall Open Hours
- Monday, July 8: 10:00 – 16:30
- Tuesday, July 9: 10:00 – 16:30
- Wednesday, July 10: 10:00 – 16:30
- Thursday, July 11: 10:00 – 16:00

Gift Shop
From traditional home decor to stunning new jewelry, the Monona Terrace Community and Convention Center Gift Shop has over 1,500 items, so you are sure to find something special for everyone. With their extensive line of ties, scarves, stained glass window hangings, clocks, pillows, vases, throws, and coasters, they have the perfect gift for you. The Gift Shop is located on Level 4, to the right of the Lecture Hall and washrooms, and is open Monday to Saturday from 10:00 – 17:00 and on Sunday, 11:00 – 15:00.

Guest Services Desk
A Guest Services Attendant is available at the Guest Services Desk for any questions related to the Conference or on Madison. The Guest Services Desk is located on Level 4 near the main entrance of the Monona Terrace Community and Convention Center.

Guest Services Desk Hours
- Sunday, July 7: 09:00 – 18:00
- Monday, July 8: 07:00 – 20:00
- Tuesday, July 9: 07:00 – 20:00
- Wednesday, July 10: 07:00 – 20:00
- Thursday, July 11: 07:00 – 16:00

Language
The official language of the Conference is English.

Lost and Found
Lost and Found items should be returned/claimed at the Guest Services Desk during Conference Hours. Items that have been found are listed on the Lost and Found website and can be searched for with key words and categories. If you cannot find your item listed, please file a claim for that item through the online system. Lost items that are turned in to the venue are added to the website on the following business day. www.mononaterrace.com/lost-and-found

Luggage Storage
Luggage Storage will be available for all WAAVP 2019 Conference Delegates on Thursday, July 11 from 07:00 - 16:00. Luggage Storage is located at the Registration Desk, located down the hall from the main entrance on Level 4 of the Monona Terrace Community and Convention Center.

Parking
The City of Madison Metro Transit routes, schedules and fares, please visit www.cityofmadison.com/metro

Social Media
Follow WAAVP 27th Conference | AAVP 64th Annual Meeting | LIWC 63rd Conference on Twitter @WAAVP_2019 #WAAVP2019. Conference @WAVVVP2019. We social media feeds throughout the event via Facebook and Twitter. Our official mobile app, WAAVP 2019. JOIN THE CONVERSATION! Share your tweets with #WAAVP2019. Download the app by searching for the official WAAVP 2019 Mobile App in Google Play and iTunes.

Exhibit Hall Open Hours
- Monday, July 8: 10:00 – 16:30
- Tuesday, July 9: 10:00 – 16:30
- Wednesday, July 10: 10:00 – 16:30
- Thursday, July 11: 10:00 – 16:00

Poster Display with Authors
- Tuesday, July 9: 10:00 – 16:30
- Wednesday, July 10: 10:00 – 16:30
- Thursday, July 11: 10:00 – 16:30

Poster Sessions
- Monday, July 8 – Poster Session 1: 15:30 – 16:30
- Tuesday, July 9 – Poster Session 2: 15:30 – 16:30
- Wednesday, July 10 – Poster Session 3: 15:30 – 16:30

Plenary Sessions
- Monday, July 8: 10:30 – 11:30
- Tuesday, July 9: 10:30 – 11:30
- Wednesday, July 10: 10:30 – 11:30
- Thursday, July 11: 10:30 – 11:30
Onsite Services and General Information

Mobile App
Download the official WAAVP 2019 Mobile App to receive the most up to date scientific program and to have access to the following great features: the Delegate Social Wall, Invited Speaker’s Bios & Session Descriptions, Scientific Schedule & Program, create your own Agenda feature, full Abstracts, Exhibitor & Sponsor’s details, WAAVP Conference Game, Live Polling, and Conference Map.

Download the app by searching for the World Association for the Advancement of Veterinary Parasitology and WAAVP 2019 in Google Play and iTunes.

Mobile App Sponsored by:

Boehringer Ingelheim

Parking
Monona Terrace Community and Convention Center features a State-owned and managed 600-space, automated parking structure available 24/7 and is accessible via West Wilson Street and the eastbound lanes of John Nolen Drive. Acceptable forms of payment for the automated ramp include Master Card, Visa or cash (no coin). Parking meters are also available for parking and can be accessed at the Wilson Street entrance—simply stay to the right as you enter to get to the top level where the meters are located. Parking meters accept quarters, dimes, and nickels.

Short-term and all-day public parking is provided throughout downtown Madison in various structures and lots. On-street parking is also available for short-term parking in central Madison. Bus parking and passenger drop-off is accessible from the Wilson Street entrance to Monona Terrace Community and Convention Center.

Rates
- Weekdays: $3.00 per hour ($1.00 for first half hour) $16.00 daily maximum
- Weekends: $5.00 flat rate
- Weekday evenings after 5:00 pm: $5.00 flat rate

For more information and to view the parking map, please visit the Monona Terrace Community and Convention Center parking website.

www.mononaterraceparking.com

Plenary Sessions
All Plenary Sessions will be held in the Plenary Hall, located in the Madison Ballroom (ABCD), Level 4 of the Monona Terrace Community and Convention Center.

Poster Sessions
Poster Sessions will be held in the Exhibit Hall, located in Hall A, Level 1 of the Monona Terrace Community and Convention Center. For more information on Poster Presentations, please see page 69.

Poster Hours:
Monday, July 8 – Poster Session 1
10:00 – 16:30
Tuesday, July 9 – Poster Session 2
10:00 – 16:30
Wednesday, July 10 – Poster Session 3
10:00 – 16:30

Poster Display with Authors
Monday, July 8 – Poster Session 1
15:30 – 16:30
Tuesday, July 9 – Poster Session 2
15:30 – 16:30
Wednesday, July 10 – Poster Session 3
15:30 – 16:30

Poster Session Sponsored by:
Onsite Services and General Information

Public Transportation
There are various public buses that run within and outside of Downtown Madison. For more information on routes, schedules and fares, please visit the City of Madison Metro Transit website. www.cityofmadison.com/metro

Restaurants
For food & beverage options located at the Monona Terrace Community and Convention Center, please visit the GrandView Café, located inside the venue on Level 4 near Breakout Room 5, meeting rooms KLOP. The Grandview Café is open from 7:00 – 11:00 daily and serves a variety of quick bite options.

The Lake Vista Café, located outdoors on the Rooftop Gardens, is open between 11:00 – 19:00 and serves a larger extensive lunch menu. The Lake Vista Café hours are weather dependent and may be closed due to inclement weather.

Both Cafés serve a variety of light snacks to a full lunch menu, which includes a variety of appetizers and entrées, soups, salads, sandwiches, desserts, coffee & teas, and alcoholic beverages.

Downtown Madison is surrounded by many wonderful restaurants, cafés and bars. Please ask for recommendations from the Guest Service Attendant located at the Guest Services Desk on Level 4 near the main entrance of the Monona Terrace Community and Convention Center.

Feel free to also use our WAAVP 2019 Conference Food Guide here. www.waavp2019.com/Restaurants

Smoking
It is against the law to smoke in any indoor public place or workplaces, including pubs, bars, restaurants, and shopping centers and any enclosed places where the public is invited. A designated smoking area is located on Level 4 near the main entrance doors.

Shipping
For all shipping requests from the Monona Terrace Community and Convention Center please enquire at the Guest Services Desk. The venue will have FedEx Ground Forms to fill out and will assist with organizing a pickup. Please make sure that you have the appropriate shipping labels attached to each item with payment for shipping. If you would like to ship through UPS, the venue does not have an account with UPS and is unable to assist with organizing a pickup, you will have to fill out all the forms and organize the pickup on your own.

Speaker Ready Room
The Speaker Ready Room is located in a meeting room M&Q, located on Level 4 of the Monona Terrace Community and Convention Center. All Presenters are required to submit and/or preview their slides at least 24 hours prior to their scheduled presentation to ensure compatibility with the Conference AV equipment.

POWERPOINT PRESENTATIONS CANNOT BE UPLOADED WITHIN THE SESSION ROOMS.

For more information on Oral Presentations, please see page 27.

Speaker Ready Room Hours:
Sunday, July 7, 2019 09:30 – 18:00
Monday, July 8, 2019 07:00 – 16:30
Tuesday, July 9, 2019 07:00 – 16:30
Wednesday, July 10, 2019 07:00 – 16:30
Thursday, July 11, 2019 07:00 – 15:30

Social Media
JOIN THE CONVERSATION! Share your experience and images from WAAVP2019 with colleagues and friends via Facebook and Twitter. Our official social media feeds throughout the Conference @WAVVVP2019. We encourage you to tag your posts with #WAAVP2019.

Facebook www.facebook.com/WAAVP2019
Twitter www.twitter.com/WAAVP_2019
Onsite Services and General Information

Staff and Volunteers
Staff and Volunteers are working throughout the Monona Terrace Community and Convention Center and are happy to assist with any question delegates may have regarding the Conference or the venue. Volunteers can be found wearing a Blue WAAVP 2019 Conference T-Shirt.

Conference T-Shirt Sponsored by:

Boehringer Ingelheim

Wireless Internet
Free Wireless Internet (best for checking email)
Network: Monona-guest
Open web browser and on the landing page, click “Free”

High-Speed WAAVP 2019 Conference Wireless Internet for Delegates Only
Network: WAAVP2019
Password: WAAVP_2019
Open web browser and on the landing page, enter the appropriate password.

Disclaimer
The organizers have made every attempt to ensure that all information in this publication is correct. The organizers take no responsibility for changes to the program or any loss that may occur as a result of changes to the program. Some of the information provided in this publication has been provided by external sources. Although every effort has been made to ensure the accuracy, currency and reliability of the content, the organizers accept no responsibility in that regard.

Password: WAAVP_2019
Network: WAAVP2019
Wireless Internet for Delegates Only
Open web browser and on the landing page, enter the appropriate password.

Disclaimer
The organizers have made every attempt to ensure that all information in this publication is correct. The organizers take no responsibility for changes to the program or any loss that may occur as a result of changes to the program. Some of the information provided in this publication has been provided by external sources. Although every effort has been made to ensure the accuracy, currency and reliability of the content, the organizers accept no responsibility in that regard.
Information For Oral & Poster Presenters

Oral Presentations

Speaker Ready Room Hours and Location
Location: Meeting Room M&Q, located on Level 4 of the Monona Terrace Community and Convention Center
Sunday, July 7 09:30 – 18:00
Monday, July 8 07:00 – 16:30
Tuesday, July 9 07:00 – 16:30
Wednesday, July 10 07:00 – 16:30
Thursday, July 11 07:00 – 15:30

• All oral presenters (both invited and abstracts) are requested to check-in at the Speaker Ready Room a minimum of 24 hours prior to your scheduled presentation, to review and upload your PowerPoint presentation.
• Please be in your session room 15 minutes before the start time of the session and check in with the Session Chair so that they are aware that you have arrived. The Session Chairs will start and end strictly on time.
• Abstract Oral Presenters will be given the opportunity of a 15 minutes Oral Presentation (13 mins + 2 mins question and answer period) and are requested to prepare a PowerPoint presentation (16:9 format), including a title and author slide.

Poster Presentation

• The maximum size of the poster is 48” (h) x 36” (w) or 4’ (h) x 3’ (w).
• All Posters will be displayed in the Exhibit Hall, located in Hall A, Level 1 of the Monona Terrace Community and Convention Center for 1 full day.
• Poster Boards will be velcro and push pin compatible. Push pins will be provided.
• All Poster Presenters have been sent a final confirmation letter, confirming the day that your poster will be presented. All posters must be setup in the morning of your session before 08:30 and taken down by 17:00 on that same day. Posters that are not removed will be discarded by management. Poster Presenters are asked to stand by their poster during the coffee break, lunch break and specifically during the dedicated Poster Display with Author Sessions to informally answer questions from the delegates.

<table>
<thead>
<tr>
<th>Display Hours</th>
<th>Poster Session 1 Monday, July 8</th>
<th>Poster Session 2 Tuesday, July 9</th>
<th>Poster Session 3 Wednesday, July 10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Set up Time</td>
<td>07:30 – 08:30</td>
<td>07:30 – 08:30</td>
<td>07:30 – 08:30</td>
</tr>
<tr>
<td>Takedown Time</td>
<td>16:30 – 17:00</td>
<td>16:30 – 17:00</td>
<td>16:30 – 17:00</td>
</tr>
<tr>
<td>Display Hours</td>
<td>10:00 – 16:30</td>
<td>10:00 – 16:30</td>
<td>10:00 – 16:30</td>
</tr>
<tr>
<td>Poster Display with Authors Authors must be standing next to their posters during these times for questions.</td>
<td>15:30 – 16:30</td>
<td>15:30 – 16:30</td>
<td>15:30 – 16:30</td>
</tr>
</tbody>
</table>

Poster Pick up Counter

Posters printed with Valley Expo & Displays can be picked up at the Registration Desk, located down the hall from the main entrance on Level 4 of the Monona Terrace Community and Convention Center.

Registration Desk Hours
Sunday, July 7 09:30 – 18:30
Monday, July 8 07:00 – 16:30
Tuesday, July 9 07:00 – 16:30
Wednesday, July 10 07:00 – 16:30
Thursday, July 11 07:00 – 16:00

Registration Staff of your Abstract ID and Poster Number.
Conference Networking Events

Taste of Wisconsin Welcome Reception
Sunday, July 7 | 18:00 – 20:00
The Monona Terrace Rooftop Gardens, Level 6 of the Monona Terrace Community and Convention Center

Tickets: Complimentary for registered delegates, $50.00 USD for additional tickets.

As we kick off the first day of the WAAVP 2019 Conference, join us for an unparalleled taste & tour of Wisconsin. Delegates will have the opportunity to taste local cuisine, purchase unique arts & crafts from local vendors and witness a beautiful sunset over Lake Monona. This is an event not to be missed!

Welcome Reception Sponsored by:

Fun Run
Wednesday, July 10 | 07:00 – 08:30
The meeting point is at the Exhibit Hall Archway, located on Level 1 of the Monona Terrace Community and Convention Center. Please wait to be called to the starting point.

Tickets: Complimentary for registered delegates. Fun Run t-shirts will only be given to those who have registered and confirmed their sizes in advance of the Conference. Any late or onsite registrations to the Fun Run will only be able to receive a t-shirt if there are any additional shirts available.

Calling all WAAVP 2019 delegates to join us for 5 km/ 3 miles run & walk around the beautiful Lake Monona! Start your day with a motivating run with your fellow colleagues and delegates while enjoying the beauty of Madison. The Fun Run will start promptly on time so please don’t be late!

Start Time:
7:00 – Walkers | 7:15 – Runners

Expected End time:
08:00 – Walkers & Runners

Fun Run Course

Starting point: Exhibit Hall Archway, located on Level 1 of the Monona Terrace Community and Convention Center. All walkers and runners to keep on the LEFT side of the bike trail path. If you need to bypass the person in front of you, please use the RIGHT side of the bike trail path.

Mid-point: All walkers and runners are asked to turn around at the 2.4km/1.5miles mark and to go back towards the starting point using the LEFT side of the bike trail path.

End point: Exhibit Hall Archway, located on Level 1 of the Monona Terrace Community and Convention Center.

Fun Run Sponsored by:

Boehringer Ingelheim
Gala Dinner
Thursday, July 11 | 18:00 – 23:00
Overture Center for the Arts, 201 State St, Madison, WI 53703, USA
Tickets: For registered Conference delegate - $75.00 USD | Additional ticket - $150.00 USD
*There is limited capacity, so please enquire at the Registration Desk if tickets are still available.

Approximately 4 minutes driving distance from the Monona Terrace Community and Convention Center, 12 minutes walking. Please note that transportation will not be provided to the Gala Dinner venue.

Celebrate the closing of the 27th Conference of the World Association for the Advancement of Veterinary Parasitology (WAAVP 2019) at the final Gala Dinner. Held at the Overture Center for the Arts, the Overture is a stunning architectural landmark in the heart of Madison’s thriving cultural arts district. Join us for an unforgettable night of food, presentations, private tours of the theater, music, and of course dancing!

Dress code: Business casual

Gala Dinner supported by:

**Eleven Bravo LLC**
Veterinary Pharmaceutical Development
Sponsored Symposia and Events

Advance registration is not required but is appreciated. For more information on all the sponsored sessions and to see the list of speakers and session descriptions, please visit the website.
www.waavp2019.com/program/industry-supported-symposia/

Monday, July 8
Sponsored Events

Bayer Lunch Symposium - News on Companion Vector Borne Diseases
12:30 – 13:30
Plenary Hall, Madison Ballroom (ABCD), Level 4
Limited boxed lunches will be provided for those who are attending the symposium.

Agenda:
1. New field study findings and research on Canine Heartworm
   Speaker: Tara Paterson, DVM, MSc, St. George’s University, School of Veterinary Medicine, St. George’s, Grenada, W.I.
2. Changing vector and parasite distributions in a changing world
   Speakers: Susan Little, DVM, PhD, Veterinary Pathobiology, Oklahoma State University, Stillwater, OK, USA
   Dwight D. Bowman, MS, PhD, Veterinary Parasitology, Cornell University, Ithaca, NY, USA

Zoetis Product Launch and Reception - Revolution Plus 6-in-1 Protection for Cats
18:00 - 19:00 Presentation
19:00 - 20:00 Cocktail
Plenary Hall, Madison Ballroom (ABCD), Level 4
A cocktail reception will follow the presentation.

Agenda:
Introduction - Dr. Chris Adolph (Chair).

Discovery of sarolaner and early formulation development of Revolution Plus/Stronghold Plus - Dr. Tom McTier.

Development of Stronghold Plus in Europe. Efficacy of selamectin and sarolaner against ticks and fleas in field studies in Europe, and pathogens from these parasites - Dr. Thomas Geurden.


Importance of tick control in cats. Ticks on cats: surveys, emergence of tick-borne pathogens, spread of ticks into new geographical areas - Dr. Mason Reichard.

Questions and answers - Moderated by Dr. Chris Adolph.

Close - Dr. Chris Adolph.
Sponsored Symposia and Events

Tuesday, July 9
Sponsored Events

Elanco Breakfast Symposium - Parasitology Meets Dermatology: Assessment of Flea Control in Client-Owned Dogs Provided by Lotilaner (Credelio) and Spinosad (Comfortis) in West Central Florida.
07:30 – 08:30
Plenary Hall, Madison Ballroom (ABCD), Level 4
Limited breakfast will be provided for those who are attending the symposium.

Boehringer Ingelheim Lunch Symposium - Changing Landscape of Ruminant Parasite Control
12:30 – 13:30
Breakout room 3, Hall of Ideas F&I, Level 4
Limited boxed lunches will be provided for those who are attending the symposium

Agenda:
Prof. Dr. Ray Kaplan (UGA – University of Georgia)
Questions and Answers
Dr. Gustavo Sabatini (Boehringer-Ingelheim Animal Health)

IDEXX Product Launch and Reception - Echinococcus Updates: Prevalence in North America and New Diagnostic Options
18:00 - 19:00 Presentation
19:00 - 20:00 Cocktail
Plenary Hall, Madison Ballroom (ABCD), Level 4 of the Monona Terrace
Community and Convention Center
A cocktail reception will follow the presentation.

Agenda:
Dr. Andrew S. Peregrine, BVMS, PhD, DVM, DipEVPC, DipACVM, Department of Pathobiology, Ontario Veterinary College,
University of Guelph
Dr. M. Alexis Seguin, DVM, MS, DACVIM-SA IDEXX Medical Affairs-Reference Labs, RealPCR

Wednesday, July 10
Sponsored Events

Zoetis Lunch Symposium - Heartworm Disease Prevention Using Controlled Compliance
12:30 – 13:30
Plenary Hall, Madison Ballroom (ABCD), Level 4
Limited boxed lunches will be provided for those who are attending the symposium.

Agenda:
Introduction
Dr. Jessica Rodriguez (Moderator)
Dr. Roger Prichard
Dr. Tom McTier
Dr. Matthew Krautmann
Questions and Answers – Dr. Jessica Rodriguez
Sponsored Symposia and Events

**Merck Product Launch and Reception - Because Science Never Stops, Merck Animal Health Works**

*18:00 - 19:00 Presentation*
*19:00 - 20:00 Cocktail*
Plenary Hall, Madison Ballroom (ABCD), Level 4
A cocktail reception will follow the presentation.

**Agenda:**
Wendy Vaala, VMD, dipACVIM-LA
Director Life-Cycle Management
Companion Animal & Equine

Merck Animal Health

**Thursday, July 11 Sponsored Event**

**National Center for Veterinary Parasitology (NCVP) Clicker Session – NCVP Parasite Case Discussion**

*12:30 - 13:30*
Plenary Hall, Madison Ballroom (ABCD), Level 4

Limited boxed lunches will be provided for those who are attending the seminar.

**Agenda:**
Interesting clinical cases presented by parasitology residents
Chairs: Drs. Susan Little and Mason Reichard

NCVP
National Center for Veterinary Parasitology

Have the WAAVP 2019 Mobile App downloaded on your smartphone device in order to participate in the Clicker Session.
SECTION 2

SCIENTIFIC PROGRAM
WAAVP Fun Facts

**Lord Soulsby of Swaffham Prior**
Who was the first President of the WAAVP was also a Veterinary Surgeon to Her Majesty Queen Elizabeth II

**Madison is the 27th Conference, however 2 have been cancelled in the past due to special circumstances (Moscow in 1979 and Morocco in 1991).**

The WAAVP have visited 19 countries and have been to every continent apart from Antarctica!

We are a well-travelled organisation!

- 1963 Hannover, Germany
- 1965 Philadelphia, USA
- 1967 Lyon, France
- 1969 Glasgow, UK
- 1971 Mexico City, Mexico
- 1973 Vienna, Austria
- 1975 Thessaloniki, Greece
- 1977 Sydney, Australia

- 1979 Moscow, SU (WAAVP cancelled, five WVA symposia held)
- 1981 Budapest, Hungary
- 1983 Perth, Australia
- 1985 Rio de Janeiro, Brazil
- 1987 Montreal, Canada
- 1989 Berlin, Germany
- 1991 Rabat, Morocco (cancelled, Gulf War)
- 1993 Cambridge, UK
- 1995 Yokohama, Japan
- 1997 Sun City, South Africa
- 1999 Copenhagen, Denmark
- 2001 Stresa, Italy
- 2003 New Orleans, USA
- 2005 Christchurch, New Zealand
- 2009 Calgary, Canada
- 2011 Buenos Aires, Argentina
- 2013 Perth, Australia
- 2015 Liverpool, UK
- 2017 Kuala Lumpur, Malaysia
- 2019 Madison, USA

The “Peter Nansen Young Scientist Award” was introduced in 2001 to commemorate the renowned Danish parasitologist, Professor Peter Nansen. The conference 1999 in Copenhagen (Denmark) is associated with the unforgettable Professor Peter Nansen, who had organized a great meeting and regretfully died prematurely a few months later.

Traditionally, the conferences are opened by ringing the cow-bell, dedicated to the WAAVP at the 1981 conference in Budapest by the local organizing committee and the Hungarian veterinary parasitologists (Malone et al., 2004, Malone et al., 2006)
Keynote Speakers

Patricia Conrad, University of California Davis, USA

Rosina (Tammi) Krecel, Texas A&M University, USA

Supported by: Merck Animal Health

Plenary Speakers

Tim Geary, McGill University, CA

Wes Van Voorhis, University of Washington, USA

Lucienne Tritten, University of Zurich, CH

Daniel Kulke, Iowa State University, USA

Mostafa Zamanian, University of Wisconsin-Madison, USA

Michael Kimber, Iowa State University, USA

Cassan Pulaski, University of Georgia, USA

Russell Avramenko, University of Calgary, CA

Gaetano Oliva, Università degli Studi di Napoli Federico II, IT

Laia Solano-Gallego, Universitat Autònoma de Barcelona, SP

Gad Baneth, The Koret School of Veterinary Medicine, IS

Guadalupe Miró, Universidad Complutense de Madrid, SP

Christine Petersen, University of Iowa, USA

Patrick Bourdeau, École Nationale Vétérinaire - Oniris, FR

Mason Reichard, Oklahoma State University, USA

Nicole Lewis, New Jersey Department of Agriculture, USA

Adalberto Perez De Leon, United States Department of Agriculture - Agricultural Research Services, USA

Sarah Hamer, Texas A&M University, USA
Scientific Program
Sunday, July 7, 2019

13:00 – 13:30 Opening Ceremony
Plenary Hall, Madison Ballroom (ABCD), Level 4
Tom Kennedy, Conference Chair of WAAVP 2019
Doug Colwell, President of WAAVP, Canada
John Gilleard, President of AAVP, Canada
Sonja Swiger, President of LIWC, United States
Mark Markel, Dean, School of Veterinary Medicine, University of Wisconsin-Madison, United States
Kate Vanden-Bosch, Dean, College of Agricultural and Life Sciences, Director, Wisconsin Agricultural Experiment Station, University of Wisconsin-Madison, United States

13:30 – 15:30 Keynote Address and Dedication Demystifying One Health: Sifting and Winnowing the Role of Veterinary Parasitology
Plenary Hall, Madison Ballroom (ABCD), Level 4
Session Chair:
• Tom Kennedy, Conference Chair of WAAVP 2019
Speakers:
13:30 – 14:00 KL 01.01 USA Pork Tapeworm: A One Health Model
Rosina Krecek, Texas A&M University, United States
14:00 – 14:30 KL 01.02 USA A Clinical Perspective on One Health Challenges for Parasitology
Peter Rabinowitz, University of Washington, United States
14:30 – 15:00 KL 01.03 USA Babesia and Toxoplasma Discoveries at the Human-Animal-Environment Interface
Patricia Conrad, University of California Davis, United States

15:30 – 16:00 Coffee Break
Capitol Promenade, located outside the Plenary Hall

16:00 – 18:00 Plenary Lecture 1.0 Evolving Approaches to Drug Discovery
Plenary Hall, Madison Ballroom (ABCD), Level 4
Session Chair:
• Timothy Geary, Institute of Parasitology, McGill University, Canada
16:00 – 16:30 PL01.01 Data-Driven Revolutions in Antiparasitic Drug Discovery
Tim Geary, University of Washington, United States
16:30 – 17:00 PL 01.02 Target-Based Drug Development for Cryptosporidiosis and Other Apicomplexa Diseases
Wes Van Voorhis, University of Washington, United States
17:00 – 17:30 PL 01.03 Excretory/Secretory Products of Nematode Parasites: Significance and Therapeutic Implications
Lucienne Tritten, University of Zurich, Switzerland
17:30 – 18:00 PL 01.04 Next Generation Parasiticides: A Mission We Can Accomplish Together
Daniel Kulke, Iowa State University, United States

18:00 – 20:00 Taste of Wisconsin Welcome Reception
The Monona Terrace Rooftop Gardens, Level 6 – Monona Terrace Convention Center
Sponsored by Bayer
Scientific Program
Monday, July 8, 2019

8:30 – 10:30  Plenary Lecture 2.0
Genes and Genomics in Parasite Control
Plenary Hall, Madison Ballroom (ABCD), Level 4
Session Chair:
• Mostafa Zamanian, University of Wisconsin-Madison, United States

08:30 – 09:00  PL 02.01 Enlisting Spatiotemporal Transcriptomics to Identify Nematode Receptor Drug Targets
Mostafa Zamanian, University of Wisconsin ~ Madison, United States

09:00 – 09:30  PL 02.02 Extracellular Vesicles: A Conserved Nematode Strategy for Host Manipulation?
Michael Kimber, Iowa State University, United States

09:30 – 10:00  PL 02.03 A Multimodal Approach to Understanding Macrocyclic Lactone Resistance in Dirofilaria Immitis
Cassan Pulaski, University of Georgia, United States

10:00 – 10:30  PL 02.04 Deep Amplicon Sequencing as a Powerful New Tool to Screen for Sequence Polymorphisms Associated with Anthelmintic Resistance in Parasitic Nematode Populations
Russell Avramenko, University of Calgary, Canada

10:30 – 11:00  Coffee Break
Exhibit Hall, Hall A, Level 1

11:00 – 12:30  Breakout Sessions
Breakout 1: OA01 Canine Heartworm I
Plenary Hall, Madison Ballroom (ABCD), Level 4
Session Chairs:
• Jenna Gettings, University of Georgia, United States
• Sidney Long, The Ohio State University, United States

11:00 - 11:15  OA01.01 Regional and Local Trends in the Prevalence of Canine Heartworm: United States 2012–2018
Jenna Gettings, University of Georgia, United States

11:15 - 11:30  OA01.02 A Moxidectin Extended-Release Injectable Suspension (PROHEART® 12) for the Prevention of Heartworm (DIROFILARIA IMMITIS) Disease in Dogs in the USA for 12 Months
Tom McTier, Zoetis, United States

11:30 - 11:45  OA01.03 A Comparison of Dog Owner Satisfaction and Preference for Flea and Tick Medications in the US, UK and Australia
Robert Lavan, Merck Animal Health, United States

11:45 - 12:00  OA01.04 Macrocyclic Lactone Resistance in Dirofilaria Immitis: Extent of Resistance and Investigation of the Genomic Changes Underlying Resistance
Roger Prichard, McGill University, Canada

12:00 – 12:15  OA01.05 Compliance with Veterinary Recommendations for Canine Flea and Tick Medications in Spain and the United States
Robert Lavan, Merck Animal Health, United States

12:15- 12:30  OA01.06 Functional Expression of Glutamate-Gated Chloride Channels from the Parasitic Nematode Brugia Malayi
Alan Robertson, Iowa State University, United States
Breakout 2: OA02 Diagnosis and Decision Support for GI Nematodes in Ruminants I

Session Chairs:
- Edwin Claerebout, Ghent University, Belgium
- Haley Anderson, University of Kentucky Maxwell H. Gluck Equine Research Center, United States

OA02.01 Further Progress on Developing New World Association for the Advancement of Veterinary Parasitology (WAAVP) Guidelines for the Fecal Egg Count Reduction Test
Ray Kaplan, Department of Infectious Diseases, College of Veterinary Medicine, University of Georgia, United States

OA02.02 Calf Behaviour as a Targeted Selective Treatment (TST) Indicator
Andrew Greer, Lincoln University, New Zealand

OA02.03 Effects of Nematode Parasitism on Activity Patterns and Rumination Behaviour in First-Season Grazing Cattle
Niclas Högberg, Swedish University of Agricultural Sciences, Department of Biomedical Sciences and Veterinary Public Health; Parasitology Unit, Sweden

OA02.04 Construction of a Decision Tree for Targeted-Selective Treatment of Dairy Cows Against Gastrointestinal Nematodes
Nadine Ravinet, BIOEPAR, INRA, Oniris, France

OA02.05 Ostertagia Ostertagi Antibodies in Bulk Tank Milk in Autumn: Variability of the ELISA Results According to the Date of Sampling
Nadine Ravinet, BIOEPAR, INRA, Oniris, France

OA02.06 A Bulk Milk Tank Survey of Ostertagia and Fasciola Hepatica Antibodies in Australian Dairy Enterprises
Gareth Kelly, Boehringer Ingelheim, Australia

Breakout 3: OA03 North American Ticks

Session Chairs:
- Kelly Allen, Oklahoma State University, United States
- Meriam Saleh, Oklahoma State University, United States

OA03.01 Show Us Your Ticks: A Survey of Ticks Infesting Dogs and Cats Across the United States
Meriam Saleh, Oklahoma State University, United States

OA03.02 Dermacentor spp. from Dogs and Cats in North America: Diversity and Geographic Distribution
Kathryn Duncan, Oklahoma State University, United States

OA03.03 Ixodes spp. from Pet Dogs and Cats in the United States: Geographic Distribution and Prevalence of Borrelia burgdorferi
Parna Ghosh, Center for Veterinary Health Sciences, Oklahoma State University, United States

OA03.04 Characterization of Voltage Sensitive Sodium Channel Gene of Haemaphysalis longicornis (Acari: Ixodidae), A New Invasive Tick Species in The United States
Guilherme Klafke, USDA-ARS Cattle Fever Tick Research Laboratory, United States

OA03.05 Dynamic Expression Analysis of microRNA Profiles During Haemaphysalis longicornis Different Stages by Deep Sequencing of Small RNA Libraries
Guangyuan Liu, Lanzhou Veterinary Research Institute, Chinese Academy of Agricultural Science, China

OA03.06 The Haemaphysalis longicornis Larvae Needs Glutathione S-Transferase in the Metabolism of Flumethrin
Emmanuel Hernandez, Laboratory of Infectious Diseases, Joint Faculty of Veterinary Medicine, Kagoshima University, Japan
Scientific Program
Monday, July 8, 2019

11:00 – 12:30  Breakout 4: OA04 Coccidia, Breakout Room 4, Hall of Ideas G&J
Breakout Room 2, Hall of Ideas E&H, Level 4
Session Chairs:
• Jamie Norris, University of Kentucky, United States
• John Barta, University of Guelph, Canada
11:00- 11:15  OA04.01 Bumped Kinase Inhibitor 1369 Is Effective Against Porcine Cystoisosporosis
Aruna Shrestha, Institute of Parasitology, University of Veterinary Medicine Vienna, Austria
11:15 - 11:30  OA04.02 In Vivo Anti-Cryptosporidial Efficacy of Novel Lactate Dehydrogenase Inhibitors
William Witola, University of Illinois At Urbana-champaign, College of Veterinary Medicine, United States
11:30 - 11:45  OA04.03 A Cystoisospora Suis In Vitro Assay for Compound Screening: The Example of Bumped Kinase Inhibitor BKI 1369
Baerbel Ruttkowski, Institute of Parasitology, Department of Pathobiology, Vetmeduni Vienna, Austria
11:45 - 12:00  OA04.04 New Treatment Options for Piglet Coccidiosis: Injectable Toltrazuril in Combination with Iron (As Gleptoferron) Is Effective Against Experimental Cystoisospora Suis Infections on the 1st or 3rd Day of Life
Anja Joachim, Institute of Parasitology, Department of Pathobiology, Vetmeduni Vienna, Austria
12:00 – 12:15  OA04.05 Molecular Mechanisms Involved in Interaction of SRSs of Toxoplasma Gondii Exosomes with Host Proteins
Houshuang Zhang, Shanghai Veterinary Research Institute, Chinese Academy of Agricultural Sciences, China
12:15 - 12:30  OA04.06 TKL1-Deficient Toxoplasma Gondii Is a Potential Live-Attenuated Vaccine Against Acute, Chronic and Oocysts-Caused Congenital Toxoplasmosis in a Murine Model
Jin-lei Wang, State Key Laboratory of Veterinary Etiological Biology, Key Laboratory of Veterinary Parasitology of Gansu Province, Lanzhou Veterinary Research Institute, Chinese Academy of Agricultural Sciences, China

11:00 – 12:30  Breakout 5: OA05 Worldwide Vector-Borne Infections in Companion Animals
Breakout Room 5, Meeting Rooms KLOP, Level 4
Session Chairs:
• Lindsay Starkey, AAVP, United States
• Barbara Qurollo, NC State University of Veterinary Medicine, United States
11:00 - 11:30  OA05.01 Highly Specific Screening Tests Maintain Actionable Positive Predictive Values in Areas with Low Heartworm Prevalence
Dwight D. Bowman, Cornell University, United States
11:30 - 11:45  OA05.02 Trends in Global Clinic-Based ELISA Seropositive Rates for Canine Vector-Borne Disease
Jesse Buch, IDEXX Laboratories, Inc., United States
11:45 - 12:00  OA05.03 Comprehensive Survey of Parasitic and Infectious Diseases in Feral & Domesticated Cats in Grenada, West Indies
Tara Paterson, St. George's University, School of Veterinary Medicine, Grenada
12:00 - 12:15  OA05.04 Prevalence of Babesia Spp. And Clinical Characteristics of Babesia Microti-Like Infections in North American Dogs
Barbara Qurollo, North Carolina State University, College of Veterinary Medicine, Department of Clinical Sciences, United States
12:30 – 12:45  OA05.05 Hepatozoon Canis in Hunting Dogs from Southern Italy: Distribution and Risk Factors
Vincenzo Veneziano, University of Naples Federico II, Italy
Scientific Program
Monday, July 8, 2019

12:30 – 13:30  Lunch Break
Exhibit Hall, Hall A, Level 1

12:30 – 13:30  Bayer Lunch Symposium - News on Companion Vector Borne Diseases
Plenary Hall, Madison Ballroom (ABCD), Level 4
Please see page 30 for more information.

13:30 – 15:30  Breakout Sessions
Breakout 1: OA06 Canine Heartworm II
Plenary Hall, Madison Ballroom (ABCD), Level 4
Session Chairs:
  • Phillip Kaufman, University of Florida, United States
  • Briana Cappiello, Lincoln Memorial University College of Veterinary Medicine, United States
13:30 - 13:45  OA06.01 Colorado Dog Importation and Increases in Heartworm Prevalence
Jason Drake, Elanco Animal Health, United States
13:45 - 14:00  OA06.02 Improved Real-Time PCR Diagnostics for Dirofilaria Immitis Utilizing a Next-Generation Sequencing-Based Approach to Target Selection and Assay Design
Nils Pilotte, University of Massachusetts-Amherst, United States
14:00 - 14:15  OA06.03 Do Canids Infected with Dirofilaria Immitis Release Unique Volatile Organic Compounds in Their Breath?
Sarah Zohdy, School of Forestry and Wildlife Sciences, Auburn University, United States
14:15 - 14:30  OA06.04 Collection and Molecular Detection of Dog Heartworm, Dirofilaria immitis, DNA in Wild Caught Mosquitoes
Phillip Kaufman, University of Florida, United States
14:30 - 14:45  OA06.05 Evaluation of Heat Treatment of Serum Prior to Testing for Detection of Antigen of Dirofilaria immitis in Necropsy Positive and Negative Dogs from Florida, USA
Jeff Gruntmeir, University of Florida, College of Veterinary Medicine, United States
14:45 - 15:00  OA06.06 Canine Heartworm Infection and Prophylaxis Use among Pet Caretakers from the Cumberland Gap Region of Tennessee, USA
Briana Cappiello, Lincoln Memorial Univ College Vet Medicine, United States
15:00 - 15:15  OA06.07 First Case of a Natural Non-Patent Infection in a Domestic Cat (Felis catus) With the Canid Heart Worm Angiostrongylus Vasorum
Manuela Schnyder, Institute of Parasitology, Vetsuisse Faculty, University of Zurich, Switzerland
15:15 - 15:30  OA06.08 Heartworm Control in Grenada, West Indies: Results of a Field Study using Imidacloprid 10% + Moxidectin 2.5% (Advantage Multi®, Advocate®) Spot-on and Doxycycline for Naturally Acquired Dirofilaria immitis Infections
Tara Paterson, St. George’s University, School of Veterinary Medicine, West Indies

12:30 – 13:30  Breakout 2: OA07 Host Responses Against Helminths in Ruminants
Breakout Room 2, Hall of Ideas E&H, Level 4
Session Chairs:
  • Katie Clow, University of Guelph, Canada
  • Krystyna Cwiklinski, Queen’s University Belfast, United Kingdom
13:30 - 13:45  OA07.01 IL-5 Dependent Modulation of Eosinophil Responses Augments Haemonchus Contortus Infection in Sheep
Jorge Francisco González, Universidad De Las Palmas De Gran Canaria, Spain
### Scientific Program

**Monday, July 8, 2019**

<table>
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<th>Time</th>
<th>Presentation</th>
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| 13:45 - 14:00 | **OA07.02** Fasciola Hepatica Infection in Cattle: Analyzing Responses of Peripheral Blood Mononuclear Cells (PBMC) Using a Transcriptomics Approach  
Andres Garcia-Campos, UCD School of Veterinary Medicine, University College Dublin, Belfield, Ireland |
| 14:00 - 14:15 | **OA07.03** Host Effects on Haemonchus Contortus Larval Traits  
Tania Waghorn, Agresearch, New Zealand |
| 14:15 - 14:30 | **OA07.04** Performance of Barbervax® Vaccination in Lactating Merino Ewes  
Mulisa Kebeta, School of Environmental and Rural Science, University Of New England, Australia |
| 14:30 - 14:45 | **OA07.05** Early Host Immune Responses to the Cattle Gastrointestinal Nematode Ostertagia ostertagi  
Mariam Bakshi, United States Department of Agriculture, Agricultural Research Services, United States |
| 14:45 - 15:00 | **OA07.06** Abomasum Histomorphometric of Lambs Infected by Haemonchus Contortus and Fed With Different Protein Levels  
Camila Chaves, Centro de Energia Nuclear na Agricultura, Brazil |
| 15:00 - 15:15 | **OA07.07** Assessment of an Enhanced Sampling Protocol and Use of a ddPCR Assay for Detection of Haemonchus Contortus on Commercial Sheep Farms  
Johan Höglund, Swedish University of Agricultural Sciences, Sweden |

#### Breakout 3: OA08 Tick Disease Transmission

**Session Chairs:**
- Brian Herrin, Kansas State University, United States
- Bhagya Kulasekkey, Oklahoma State University, United States

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<th>Time</th>
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| 13:30 - 13:45 | **OA08.01** Immunogens Expressed by Tick Transmitted Borrelia burgdorferi  
Emily Bencosme Cuevas, College of Veterinary Medicine and Biomedical Sciences, Department of Veterinary Pathobiology, Texas A&M University, United States |
| 13:45 - 14:00 | **OA08.02** Borrelia burgdorferi Infection Modifies Protein Content in Ixodes Scapularis Nymph Tick Saliva  
Albert Mulenga, Texas A&M University, College of Veterinary Medicine & Biomedical Sciences, USA |
| 14:00 - 14:15 | **OA08.03** Prevention of Babesia Rossi Transmission by Haemaphysalis elliptica on Dogs Treated with Nexgard®  
Frederic Beugnet, Boehringer-ingelheim, France |
| 14:15 - 14:30 | **OA08.04** Haemaphysalis Spinigera a Vector for Outbreak of Kyasanur Forest Disease in Shimoga: A Malnad Region of Karnataka  
Ananda Konanur Javaregowda, Department of Veterinary Parasitology, Karnataka Veterinary, Animal And Fisheries Sciences University (b), Veterinary C, India |
| 14:30 - 14:45 | **OA08.05** No Evidence of Bartonella Henselae Transmission from Larva to Nymph Stages of Rhipicephalus Sanguineus by Using Artificial Membrane Feeding System  
Wittawat Wechtaisong, Department of Veterinary Medicine, College of Veterinary Medicine, National Pingtung University of Science and Technology, Taiwan |
| 14:45 - 15:00 | **OA08.06** Potential Involvement of Salivary Cholinesterase Activity in Arthropod Vector-Borne Disease Transmission  
Kevin Temeyer, USDA-ARS KNIPLING-BUSHLAND US Livestock Insects Research Laboratory, United States |
<table>
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<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Presentor</th>
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<tbody>
<tr>
<td>15:00 - 15:15</td>
<td>OA08.07</td>
<td>Trends in Canine Infection with Borrelia Burgdorferi and Anaplasma Phagocytophilum in the Eastern United States: 2010-2017</td>
<td>Bhagya Kulasooriya, Department of Veterinary Pathobiology, Oklahoma State University, United States</td>
</tr>
<tr>
<td>15:15 - 15:30</td>
<td>OA08.08</td>
<td>Species Diversity and Seasonal Distribution of Hard Ticks (Acarí: Ixodidae) Infesting Mammalian Hosts in Various Districts of Riyadh Province, Saudi Arabia</td>
<td>Abdullah Alanazi, Shaqra University, Saudi Arabia</td>
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<td>13:30 - 13:45</td>
<td>Breakout 4: OA09 Wildlife Parasites</td>
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<td>Session Chairs:</td>
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<td>• Robert Arther, Arther Consulting LLC, United States</td>
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<td>• Tela Zembsch, University of Wisconsin-Madison, United States</td>
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<tr>
<td>13:30 - 14:00</td>
<td>OA09.01</td>
<td>Ticks, Keds, and Citizen Scientists: Working with Hunters to Better Understand Wildlife Parasites</td>
<td>Erika Machtinger, Pennsylvania State University, United States</td>
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<tr>
<td>13:45 - 14:00</td>
<td>OA09.02</td>
<td>Effects of Sarcoptic Mange on American Black Bear Activity and Movement Patterns in Pennsylvania</td>
<td>Hannah Greenberg, Department of Entomology, The Pennsylvania State University, United States</td>
</tr>
<tr>
<td>14:00 - 14:15</td>
<td>OA09.03</td>
<td>First Report of Cryptosporidium Parvum Subtype IlaA16G3R1 in Cervids</td>
<td>Katia Bresciani, Universidade Estadual Paulista (UNESP), Faculdade de Medicina Veterinária de Aracatuba, Brasil</td>
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<td>14:15 - 14:30</td>
<td>OA09.04</td>
<td>Mass Mortality in Endangered Pinna Nobilis (Linnaeus 1758)</td>
<td>Fan Mussels Associated with Haplorosporidium Pinnae</td>
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<td>Rossella Panarese, University of Bari, Italy</td>
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<tr>
<td>14:30 - 14:45</td>
<td>OA09.05</td>
<td>Unravelling the Parasites of Deer</td>
<td>Alex Chambers, AgResearch Ltd, New Zealand</td>
</tr>
<tr>
<td>14:45 - 15:00</td>
<td>OA09.06</td>
<td>First Record of Possible Life Cycle Stages of a Hepatozoon Blood Parasite Species (ApicomplexFirst Record of Possible Life Cycle Stages of a Hepatozoon Blood Parasite Species (Apicomplexa: Adeleorina: Hepatozoidae) in an Ixodes Tick (Arthropoda: Ixodida: Ixodidae) and an African leopard, Panthera Pardus Pardus (Linnaeus, 1758)</td>
<td>Michelle Van As, North West University, South Africa</td>
</tr>
<tr>
<td>15:00 - 15:15</td>
<td>OA09.07</td>
<td>Sarcosporidiosis: An Emerging Disease in Yaks (Bos Grunniens)</td>
<td>Khalid Mehmood, College of Veterinary Medicine, Huazhong Agricultural University, China</td>
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<td>Session Chairs:</td>
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<td>• Dwight Bowman, WAAVP, United States</td>
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<td>• Jennifer Ketzis, Ross University School Of Veterinary Medicine, Saint Kitts and Nevis</td>
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<tr>
<td>13:30 - 14:00</td>
<td>OA10.01</td>
<td>A Short Review of the 100 Years of Methods Other Than the Direct Smear for Detecting Parasites in Feces</td>
<td>Dwight D Bowman, Cornell University, United States</td>
</tr>
<tr>
<td>14:00 - 14:15</td>
<td>OA10.02</td>
<td>Prevalence of Intestinal Parasites in Pet Dogs in the United States, 2016-2018</td>
<td>Susan Littie, Oklahoma State University, United States</td>
</tr>
<tr>
<td>14:15 - 14:30</td>
<td>OA10.03</td>
<td>IDEXX Fecal Antigen Technology: Fecal Dx® Tests</td>
<td>David Elsemore, Idexx Laboratories, Inc., United States</td>
</tr>
</tbody>
</table>
14:30 - 14:45  OA10.04 Agreement of Fecal Antigen Test Results (Fecal Dx®) to Egg Observations Is Influenced by Host and Parasite Parameters—Insights from a Large Field Population of Dogs
David Elsemore, Idexx Laboratories Inc., United States

14:45 - 15:00  OA10.05 What Is Going on With Trichuris in Cats in Florida?
Jennifer Ketzis, Ross University School of Veterinary Medicine, Saint Kitts and Nevis

15:00 - 15:15  OA10.06 Further Comparison of Centrifugation Versus Passive Fecal Flotation for the Recovery of Toxocara Canis, Trichuris Vulpis and Ancylostoma Caninum Eggs
Michael Dryden, Kansas State University, United States

15:15- 15:30  OA10.07 US Dog Owner Compliance with Veterinary Recommendations for Heartworm Medication Use in Dogs That Also Receive Flea and Tick Medication
Robert Lavan, Merck Animal Health, United States

15:30 – 16:30  Coffee Break & Poster Session 1 Display with Authors
Exhibit Hall, Hall A, Level 1
Please see page 69 for more information on the list of poster presenters

16:30 – 18:00  Breakout Sessions
Breakout 1 OA11 Canine Protozoa
Plenary Hall, Madison Ballroom (ABCD), Level 4
Session Chairs:
• Sawsan Ammar, University of Tennessee, Knoxville, United States
• Maria Esteve-Gasent, Texas A&M University, United States

16:30 - 16:45  OA11.01 Prevalence of Trypanosoma Cruzi Infection in Domestic Dogs and Kissing Bugs in Oklahoma
Layna Tarpalechee, Department of Veterinary Pathobiology, Oklahoma State University Center for Veterinary Health Sciences, United States

16:45 - 17:00  OA11.02 Black-Backed Jackals and African Wild Dogs Serve as Reservoirs for the Pathogenic Babesia of Domestic Dogs in South Africa
Paul Matjila, Vector and Vector-Borne Research Programme, Department of Veterinary Tropical Diseases, Faculty of Veterinary Science, University of Pretoria, South Africa

17:00 - 17:15  OA11.03 Transmission of Anaplasma Phagocytophilum (Foggie 1949, Dumler et al. 2001) by Ixodes Spp. Ticks Feeding on Dogs and Artificial Membranes
Josephus Fourie, Clinvet International (Pty) Ltd, South Africa

17:15 - 17:30  OA11.04 Prevalence of Vector-Transmitted Infections in Dogs in Berlin/Brandenburg
Christina Helm, Institute of Parasitology and Tropical Veterinary Medicine, Freie Universität Berlin, Germany

17:30 - 17:45  OA11.05 Prevalence of Babesia Microti, B. Odocoilei and Co-Infection Rates with Borrelia Burgdorferi in Ixodes Scapularis Nymphs in Wisconsin
Tela Zembsch, University of Wisconsin - Madison, United States

16:30 - 18:00  Breakout 2: OA12 Diagnosis and Decision Support for GI Nematodes in Ruminants II
Breakout Room 2, Hall of Ideas E&H, Level 4
Session Chairs:
• Andrew Peregrine, Ontario Veterinary College, Canada
• Clayton Dilks, Northwestern University, United States

16:30 - 16:45  OA12.01 Rapid Assessment of Faecal Egg Count and Faecal Egg Count Reduction Using Composite Sampling in Cattle
Christophe Chartier, BIOEPAR, INRA, ONIRIS, France
16:45 - 17:00  OA12.02 Using Remote Sensing Technologies for the Detection of Parasitism in Sheep
Seer Ikurior, Massey University, New Zealand

17:00 - 17:15  OA12.03 Motility Based Assays Using Cultured Fourth Stage Larvae Fail to Provide Consistent Discrimination Between Known Avermectin-Resistant and -Susceptible Isolates of Cooperia spp. Motility Based Assays Using Cultured Fourth Stage Larvae Fail to Provide Consis
Kelsey Paras, University of Georgia, United States

17:15 - 17:30  OA12.04 What Are Good Marker Genes for Strongyle Nematode Species Identification and Phylogenetic Reconstruction?
Jürgen Krücken, Freie Universität Berlin, Germany

17:30 - 17:45  OA12.05 A Simple Method for Identifying and Quantifying Cattle GI Nematodes
Dante Zarlenga, Agricultural Research Service, Animal Parasitic Diseases Lab, United States

17:45 - 18:00  OA12.06 Investigating the Diversity and Prevalence of Pathogens in Cattle in the Livestock-Wildlife Interface of Kwale County, Kenya
Brenda Odhiambo, International Centre For Insect Physiology and Ecology, Kenya

16:30 - 18:00  Breakout 3 OA13 Flea and Tick Treatment
Breakout Room 3, Hall of Ideas F&I, Level 4
Session Chairs:
• Guilherme Klafke, USDA-ARS-Cattle Fever Tick Research Lab, United States
• Heather Kopsco, University of Rhode Island, United States

16:30 - 16:45  OA13.01 Efficacy of oral Afoxolaner (NexGard®) against Cochliomyia hominivorax (Diptera, Calliphoridae) larvae infestation in naturally infested dogs in Brazil
Andre Cutolo, Boehringer Ingelheim Animal Health Do Brasil Ltda., Brazil

16:45 - 17:00  OA13.02 Lotilaner Is a Potent Inhibitor of the Novel GABA Receptor of Body Lice Pediculus Humanus Humanus
Nicolas Lamassiaude, ISP, INRA, Université Tours, UMR1282, France

17:00 - 17:15  OA13.03 Early Oral Sarolaner (SimparicaTM, Zoetis) Acaricidal Activity Against Ixodes Scapularis and Amblyomma Americanum Adults After Monitored Attachment Intervals on Treated Dogs
Kelly Allen, Oklahoma State University, United States

17:15 - 17:30  OA13.04 A First Insight into the Effect of Lotilaner on GABA-Gated Channels from the European Tick Ixodes Ricinus
Claude Charvet, INRA, ISP, Université Tours, UMR1282, France

17:30 - 17:45  OA13.05 Clinical Efficacy of Afoxolaner in Dogs Naturally Infected with Sarcoptes Scabiei and Concomitant Modifications of the Skin Microbiota
Jacques Guillot, Veterinary College of Alfort, France

17:45 - 18:00  OA13.06 Ctenocephalides Felis Resistance to Fipronil: Phenotypic and Genotypic Characterization in a Laboratory Model
Emilie Bouhsira, National Veterinary School of Toulouse, France

16:30 - 18:00  Breakout 4: OA14 Protozoan Parasites
Breakout Room 4, Hall of Ideas G&J, Level 4
Session Chairs:
• Craig Reinemeyer, East Tennessee Clinical Research, Inc., United States
• Karine Sonzogni-Desautels, Research Institute of the McGill University Health Centre, Canada

16:30 - 16:45  OA14.01 Defining Relapses Attributed to Equine Protozoal Myeloencephalitis
Siobhan Ellison, Pathogenes Inc, United States
Scientific Program
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16:45 - 17:00  OA14.02 Bovine Theileriosis – A New Disease of Cattle in Australasia
Abdul Jabbar, Melbourne Veterinary School, The University of Melbourne, Australia

17:00 - 17:15  OA14.03 Epidemiology of Theileria Orientalis: Potential Vectors on Northern Tablelands, NSW, Australia
Biniam Tsegaye Lakew, University Oof New England, Australia

17:15 - 17:30  OA14.04 Evaluation of an ELISA Detecting S. Fayeri Antitoxin in Horses with Equine Muscular Sarcocystosis
Siobhan Ellison, Pathogenes Inc, United States

17:30 - 17:45  OA14.05 Not All Species Are Created Equal: Exploring the Diversity of Eimeria Spp. Infecting Domestic Sheep and Goats
Evelin Rejman, Department of Pathobiology, Ontario Veterinary College, University of Guelph, Canada

16:30 - 17:00  Breakout 5: OA15 Education
Breakout Room 5, Meeting Rooms KLOP, Level 4
Session Chairs:
• Nichola Calvani, The University of Sydney, Australia
• Michael Kent, Oregon State University, United States

16:30 - 16:45  OA15.01 The Importance of Anthelmintic Efficacy Monitoring: Results of an Outreach Effort
Jennifer Cain, University of Kentucky, United States

16:45 – 17:00  OA15.02 Teaching Horse Parasitology in the 21st Century: An Adaptive Learning Platform
Nichola Calvani, Sydney School of Veterinary Science, The University of Sydney, Australia

17:00 - 17:15  OA15.03 Parasites of Zebrafish: Impacts and Potential Models (Lemons and Lemonade)
Michael Kent, Oregon State University, United States

17:15 - 17:30  OA15.04 Training the Next Generation of African Leaders in Parasitology: USALTI-Afrique @ University of Salford
Vincenzo Lorusso, Global Research & Intellectual Property, Vetoquinol, France

17:30 – 17:45  OA15.05 Opportunity for Change: Implementing AAVMC’s Competency-Based Veterinary Education for Veterinary Parasitology
Antoinette Marsh, College of Veterinary Medicine, The Ohio State University, United States

18:00 – 20:00  Zoetis Product Launch and Reception - Revolution Plus 6-in-1 Protection for Cats
Plenary Hall, Madison Ballroom (ABCD), Level 4
Please see page 30 for more information.
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07:30 – 08:30 Elanco Breakfast Symposium - Parasitology Meets Dermatology: Assessment of Flea Control in Client-Owned Dogs Provided by Lotilaner (Credelio) and Spinosad (Comfortis) in West Central Florida.
Plenary Hall, Ballroom (ABCD), Level 4
Please see page 31 for more information.

08:30 – 10:30 Plenary Lecture 3.0
Leishmaniasis, Leishvet and One Health
Plenary Hall, Madison Ballroom (ABCD), Level 4
Session Chair:
• Christine Petersen, Center for Emerging Infections Diseases, United States

08:30 – 09:10 PL 03.01 Reservoir Vaccination to Decrease Transmission of Parasitic Zoonoses: Notes from Leishmaniosis
Gaetano Olivia, University of Naples “Frederico II” Italy
Laia Solano-Gallego, Universitat Autònoma de Barcelona, Spain

09:10 – 09:50 PL 03.02 The Impact of Treatment of Leishmaniosis as a Control Measure to Prevent Transmission and the Impact of Increased Drug Resistance: Implications in a One Health Context
Gad Baneth, The Hebrew University of Jerusalem, Israel
Guadalupe Miró, Universidad Complutense de Madrid, Spain

09:50 – 10:30 PL 03.03 Impact of Different Leishmania Reservoirs on Sand Fly Transmission-IndiaIRS and Other One Health Leishmania Observations
Christine Petersen, University of Iowa, United States
Patrick Bourdeau, Ecole Nationale Veterinaire - Oniris, France

10:30 – 11:00 Coffee Break
Exhibit Hall, Hall A, Level 1

11:00 – 12:30 Breakout Sessions
Breakout 1: OA16 Canine Helminths
Plenary Hall, Madison Ballroom (ABCD), Level 4
Session Chairs:
• Manuela Schnyder, University of Zurich, Switzerland
• Megan Wohltjen, Oklahoma State University, United States

11:00 - 11:15 OA16.01 High Risk of False Positive Findings by Coproscopy in Danish Dogs
Stig Milan Thamsborg, Veterinary Parasitology, University of Copenhagen, Denmark

11:15 - 11:30 OA16.02 Combination Anthelmintic Treatment for Persistent Ancylostoma Caninum Ova Shedding in Greyhounds
Antoinette Marsh, The Ohio State University College of Veterinary Medicine, United States

11:30 - 11:45: OA16.03 Comparison of Different Flotation Techniques Alone or in Combination with ELISA Coproantigen Detection for Gastrointestinal Parasites of Dogs
Guilherme Verocai, Texas A&M University, United States

11:45 - 12:00 OA16.04 Seasonality and Prevalence of Common Canine Gastrointestinal Nematodes in the U.S.A.
Jason Drake, Elanco Animal Health, United States

12:00 - 12:15 OA16.05 Exploring the Role of ABCB1 Transporters in Toxocara Canis
Jeba R J Jesudoss Chelladurai, College of Veterinary Medicine Iowa State University, United States
## Tuesday, July 9, 2019

### Breakout 2: OA17 Molecular Tools I

**Session Chairs:**
- Camila De Queiroz, University of Calgary, Canada
- Richard Martin, Iowa State University, United States

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<tr>
<th>Time</th>
<th>Title</th>
<th>Presenters</th>
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<tbody>
<tr>
<td>11:00 - 11:15</td>
<td>OA17.01 A Cysteine Protease Inhibitor RHcyst-1 From Tick Rhipicephalus Haemaphysaloides and Its Antitumor Potential</td>
<td>Jinlin Zhou, Shanghai Veterinary Research Institute, Chinese Academy of Agricultural Sciences, China</td>
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<tr>
<td>11:15 - 11:30</td>
<td>OA17.02 Evidence of Multiple Point Mutations in Theileria Annulata Cytochrome B Gene and Peptidyl-Prolylismerase Incriminated in Buparvaquone Treatment Failure</td>
<td>Bashir Salim, University of Khartoum, Sudan</td>
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<tr>
<td>11:30 - 11:45</td>
<td>OA17.03 Evaluation of Theileria Orientalis Genome Assembly Methods Using Nanopore Sequencing and Analysis of Variation Between Genomes</td>
<td>Jerald Yam, University of Technology Sydney, Australia</td>
</tr>
<tr>
<td>11:45 - 12:00</td>
<td>OA17.04 Novel Subunit Vaccine Approaches to Protect Against Bovine Babesiosis</td>
<td>Vignesh Rathinasamy, Biomedicine Discovery Institute, Monash University, Australia</td>
</tr>
<tr>
<td>12:00 - 12:15</td>
<td>OA17.05 Understanding Roles of Genes in Mosquito Melanization Response Against Pathogen Infection by Gene Knock-Down and Gene Knock-Out Technologies</td>
<td>Qian Han, Laboratory of Tropical Veterinary Medicine and Vector Biology, College of Life Sciences and Pharmacy, Hainan University, China</td>
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### Breakout 3: OA18 Leishmania

**Session Chairs:**
- Breanna Scorza, University of Iowa, United States
- Guadalupe Mior, Universidad Complutense de Madrid, Spain

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<tr>
<th>Time</th>
<th>Title</th>
<th>Presenters</th>
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<tr>
<td>11:00 - 11:15</td>
<td>OA18.01 LeishVet Symposium: Animal Leishmaniosis – Lights and Shadows of Feline Leishmaniosis</td>
<td>Maria-Grazia Pennisi, University of Messina, Italy</td>
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<tr>
<td>11:15 - 11:30</td>
<td>OA18.02 LeishVet Symposium: Animal Leishmaniosis – Diagnosis for Veterinarians</td>
<td>Luís Cardoso, Department of Veterinary Sciences, School of Agrarian and Veterinary Sciences, University of Trás-os-Montes e Alto Douro (UTAD), Portugal</td>
</tr>
<tr>
<td>11:30 - 11:45</td>
<td>OA18.03 Toll-Like Receptors 2, 4, and 7, Interferon-Gamma, Interleukin 10 and Programmed Death Ligand 1 Transcripts in Skin from Dogs with Different Clinical Stages of Leishmaniosis</td>
<td>Laia Solano-Gallego, Dep. Medicina I Cirugia Animals, Universitat Autonoma de Barcelona, Spain</td>
</tr>
<tr>
<td>11:45 - 12:00</td>
<td>OA18.04 Altered Circulating NK Cell Response During Ehrlichia/Leishmania Co-infection and Potential Role in Progressive Disease</td>
<td>Breanna Scorza, University of Iowa, United States</td>
</tr>
<tr>
<td>12:00 - 12:15</td>
<td>OA18.05 A Nationwide Survey of Leishmania Infantum Infection in Cats and Associated Risk Factors in Italy</td>
<td>Roberta Iatta, University of Bari, Italy</td>
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</table>
Scientific Program
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11:00 - 12:30 Breakout 4: OA19 Nematode Molecular Tools, Resistance I
Breakout Room 4, Hall of Ideas G&J, Level 4

Session Chairs:
• Erik Andersen, Northwestern University, United States
• Kendra Gallo, University of Wisconsin-Madison, United States

11:00 - 11:15 OA19.01 Experimental Validation of Benzimidazole Resistance Alleles and Mechanisms Using Quantitative Assays of Free-Living Nematodes
Clayton Dilks, Northwestern University, United States

11:15 - 11:30 OA19.02 Genetic Characterisation of Benzimidazole Resistance in UK N. Battus Populations Using Next-Generation Amplicon Sequencing and Pyrosequencing Technologies
Dave J. Bartley, Moredun Research Institute, Scotland

11:30 - 11:45 OA19.03 Genotypic Characterisation of Monepantel Resistance in UK Isolates of Teladorsagia Circumcincta
Francis Turnbull, University of Glasgow, United Kingdom

11:45 - 12:00 OA19.04 Emodepside, Macrofilaricide Effects and Filarial SLO-1 K Channels
Sudhanva Kashyap, Iowa State University, United States

12:00 - 12:15 OA19.05 Diethylcarbamazine Directly Modulates TRP Channels in Filarial Nematodes
Saurabh Verma, Iowa State University, United States

12:15 - 12:30 OA19.06 Lipidome of Haemonchus Contortus
Tao Wang, Department of Veterinary Biosciences, Melbourne Veterinary School, The University of Melbourne, Australia

Breakout 5: OA20 IAFWP Symposium
Breakout Room 5, Meeting Rooms KLOP, Level 4

Session Chairs:
• Alvin Gajadhar, Parasitix Lab Services, United States
• Jonathon Kotwa, University of Guelph, Canada

11:00 - 11:30 OA20.01 Toxoplasma Gondii Seroprevalence in Veterinary Students, Malika Kachani, Western University Of Health Sciences, United States

11:30 - 11:45 OA20.02 Factors Associated with Echinococcus Multilocularis Infection in Coyotes (Canis latrans) in Southern Ontario
Jonathon Kotwa, Department of Pathobiology, Ontario Veterinary College, University of Guelph, Canada

11:45 - 12:00 OA20.03 An Integrated Approach to Control Cystic Echinococcosis in Southern Italy
Laura Rinaldi, Department of Veterinary Medicine and Animal Production, University of Napoli Federico II, Italy

12:30 - 13:30 Lunch Break
Exhibit Hall, Hall A, Level 1

12:30 - 13:30 Boehringer Ingelheim Lunch Symposium - Changing Landscape of Ruminant Parasite Control
Breakout room 3, Hall of Ideas F&I, Level 4
Please see page 31 for more information.

13:30 - 15:30 Breakout Sessions

Breakout 1: OA21 Cat Parasitisms
Plenary Hall, Madison Ballroom (ABCD)

Session Chairs:
• Adriano Vatta, Zoetis VMRD, United States
• Gebbiena Bron, University of Wisconsin-Madison, United States
Scientific Program
Tuesday, July 9, 2019

13:30 - 13:45 OA21.01 Larval Shedding and Infectivity to Snail Intermediate Host of Feline Lungworms After Anthelmintic Treatment
Maria Alfonso Cavalera, University of Bari, Italy

13:45 - 14:00 OA21.02 Vector-Borne Pathogens in Domestic Cats from Romania: A First Epidemiological Survey
Luciana Cătălina Rus, Department of Parasitology and Parasitic Diseases/University of Agricultural Sciences and Veterinary Medicine, Romania

14:00 - 14:15 OA21.03 Molecular Confirmation of Zoonotic Strongyloides Stercoralis in Cats
Jennifer Ketzis, Department of Biomedical Sciences, Ross University School of Veterinary Medicine, Saint Kitts and Nevis

14:15 - 14:30 OA21.04 Addressing Feline Deworming Guidelines in the Tropics
Jennifer Ketzis, Tropical Council for Companion Animal Parasites (TroCCAP), Australia

14:30 - 14:45 OA21.05 Retrospective Fecal Survey of Parasites in 2,323 Client-Owned Cats in Northcentral Oklahoma from 2007 Through 2017
Yoko Nagamori, Oklahoma State University, United States

14:45 - 15:00 OA21.06 Aelurostrongylus Abstrusus Infection in the Intermediate Host Mollusk Based on the Recovery of Third-Stage Larvae
Emily Werdal, Cornell University, College of Veterinary Medicine, USA

13:30 - 15:30 Breakout 2: OA22 Molecular Tools II
Breakout Room 2, Hall of Ideas E&H, Level 4
Session Chairs:
• Laura Rinaldi, University of Napoli, Federico II, Italy
• Jessica Rotolo, University of Guelph, Canada

13:30 - 13:45 OA22.01 Extracellular Vesicles from Hookworms as Vehicles for Vaccine Candidates and Immuno-Therapeutics
Ramon Marc Eichenberger, Australian Institute of Tropical Health and Medicine, James Cook University, Australia

13:45 - 14:00 OA22.02 Transcriptomic and Genomic Characterization of the P-glycoprotein Gene Family in Parascaris sp.
Alexander Gerhard, Institute for Parasitology and Tropical Veterinary Medicine, Freie Universität Berlin, Germany

14:00 - 14:15 OA22.03 Parasitic Nematode Drug Discovery
Mostafa Elfawal, University of Massachusetts Medical School, United States

14:15 - 14:30 OA22.04 Dynamic Mechanisms Allow Worms to Adjust Their Sensitivity to an Anthelmintic: Levamisole and Brugia Malayi
Richard John Martin, Iowa State University, United States

14:30 – 14:45 OA22.05 Anthelmintic-like Activity of Leucaena Leucocephala Aqueous Extract Against Gyrodactylus Spp., and Its Effect over the Host Health
Elke von Son-de Fernex, Centro de Enseñanza Investigación y Extensión en Ganadería Tropical, Facultad de Medicina Veterinaria y Zootecnia, Universidad Nacional Autónoma de México, Mexico

14:45 - 15:00 OA22.06 In Silico Analysis of Potential Vaccine Candidates for Tritrichomonas Foetus, the Causative Agent of Bovine Trichomoniasis
Eleanor Senior, Institute of Infection and Global Health-University Of Liverpool, United Kingdom

15:00 - 15:15 OA22.07 Mechanism of the Benzodiazepine Meclonazepam (Ro 11-3128) on Parasitic Flatworms
John Chan, Medical College of Wisconsin, United States

15:15 - 15:30 OA22.08 - Must Improved Animal Welfare Lead to More Parasites?
Emelie Pettersson, Swedish University of Agricultural Sciences, Sweden
**Breakout 3: OA23 Leishmania**

Breakout Room 3, Hall of Ideas F&I, Level 4

**Session Chairs:**
- **Erin Cox,** University of Iowa, United States
- **Lluis Ferrer,** UAB, Spain

13:30 - 13:45
OA23.01 Splenic Architecture Alterations and Cell Phenotypes between Symptomatic and Asymptomatic US Dogs with Visceral Leishmaniasis

**Erin Cox,** University of Iowa, United States

13:45 – 14:00
OA23.02 Canileish Vaccine and Repellents Are Effective Measures to Prevent Canine Leishmaniasis in Field Condition: A 6-Year-Field Retrospective Study

**Gaetano Oliva,** Università degli Studi di Napoli Federico II - Dipartimento di Medicina Veterinaria e Produzioni Animali, Italy

14:00 - 14:15
OA23.03 Evaluation of Clinical, Laboratory Profiles of Dogs Naturally Infected with L. Infantum Submitted to Therapy with Marbofloxacin Associated with Allopurinol

**Leucio Alves,** Federal Rural University of Pernambuco, Brazil

14:15 - 14:30

**Bruno Alberigi,** Programa de Pós Graduação em Medicina Veterinária, Universidade Federal Rural do Rio de Janeiro, Brazil

14:30 - 14:45
OA23.05 Safety and Efficacy of Canileish Vaccine in Exposed Dogs

**Gaetano Oliva,** Università degli Studi di Napoli Federico II - Dipartimento di Medicina Veterinaria e Produzioni Animali, Italy

14:45 - 15:00
OA23.07 Leishmaniosis in Vaccinated Dogs: Clinical Aspects

**Rubén Foj,** LETI Pharma, R & D Allergy & Immunology, Spain

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**Breakout 4: OA24 Nematode Molecular Tools, Resistance II**

Breakout Room 4, Hall of Ideas G&J, Level 4

**Session Chairs:**
- **Daniel Snyder,** Daniel E. Snyder DVM Ph.D. Consulting, LLC, United States
- **Paulius Baltrusis,** Swedish University of Agriculture, Sweden

13:30 - 13:45
OA24.01 Identification and Biochemical Characterization of Three Conserved Haemonchus contortus Cathepsin B-like Proteases

**Mariam Bakshi,** USDA-ARS, United States

13:45 - 14:00
OA24.02 Exploring Benzimidazole Resistance in Haemonchus Contortus by Next Generation Sequencing and Droplet Digital PCR

**Paulius Baltrusis,** Swedish University of Agricultural Sciences, Sweden

14:00 - 14:15
OA24.03 Transcriptomic and Genomic Approaches to Ivermectin Resistance in Haemonchus Contortus

**Eileen Devaney,** MoreRU Research Institute, University of Edinburgh, United Kingdom

14:15 - 14:30
OA24.04 Unraveling the Genetic Mediators of Multi-Drug Resistance in Haemonchus Contortus Using Forward Genetics

**Stephen Doyle,** MoreRU Research Institute, United Kingdom

14:30 - 14:45
OA24.05 How to Detect Genomic Signatures of Selection Associated with Anthelmintic Drug Resistance in Field Populations of Parasitic Nematodes

**John Stuart Gillear,** Faculty of Biological Sciences, University of Calgary, Canada

14:45 - 15:00
OA24.06 Investigating the Molecular Epidemiology of Benzimidazole Resistance in Ovine Gastrointestinal Nematodes Using Deep Amplicon Sequencing

**Camila De Queiroz,** University of Calgary, Canada
15:00 - 15:15
**OA24.07** Does Triclabendazole Resistance in Fasciola Hepatica Have the Same Genetic Basis in Different Areas of the UK?
Nicola Beesley, University of Liverpool, United Kingdom

15:15 - 15:30
**OA24.08** A Comprehensive Study of N-Glycosylation of Haemonchus Contortus
Chunqun Wang, Huazhong Agricultural University, China

13:30 - 15:30
**Breakout 5: OA25 IAFWP Symposium**
Breakout Room 5, Meeting Rooms KLOP, Level 4

*Session Chairs:*
- Ray Gamble, National Academy of Sciences, United States
- Lihua Xiao, South China Agricultural University, China

13:30 - 14:00
**OA25.01** The Role of Livestock in the Foodborne Transmission of Giardia Duodenalis and Cryptosporidium Spp. To Humans
Brent Dixon, Health Canada, Canada

14:00 – 14:15
**OA25.02** Host Adaptation in Cryptosporidium Parvum: Genetic Basis and Implications to Epidemiology
Lihua Xiao, Division of Foodborne, Waterborne, and Environmental Diseases, Centers for Disease Control and Prevention, United States

14:15 - 14:30
**OA25.03** Improving Cryptosporidium Parvum Subtype Identification Using Next Generation Sequencing
Monica Santin, EMFSL/ARS/USDA, United States

14:30 - 14:45
**OA25.04** Cryptosporidium and Giardia Species and Genotypes in Sheep in Algeria
Karim Adjou, Phileo Lesaffre Animal Care, France

14:45 - 15:00
**OA25.05** Cryptosporidium Genotypes and Subtypes in Diarrheal Dairy Calves in France
Karim Adjou, UMR BIPAR, Anses, Ecole Nationale Vétérinaire d’Alfort, INRA, Université Paris-Est, Animal Health Laboratory, France

15:00 - 15:15
**OA25.06** Seroprevalence and Associated Risk Factors of Toxoplasma Gondii Infection in Domestic Animals in the Oliver Reginald Tambo District, South Africa
Whatmore Tagwireyi, Centro de Biotecnologia Universidade Eduardo, Mozambique

15:15 - 15:30
**OA25.07** Serological Detection of Toxoplasma Gondii in Marine Mammals from Canada
Adrian Hernandez Ortiz, Canadian Wildlife Health Cooperative, Department of Pathology and Microbiology, Atlantic Veterinary College, University of Prince Edward Island, Canada

15:30 – 16:30
**Coffee Break & Poster Session 2 Display with Authors**
Exhibit Hall, Hall A, Level 1
Please see page 69 for more information on the list of poster presenters.

16:30 - 18:00
**Breakout 1: OA26 Canine Helminths II**
Plenary Hall, Madison Ballroom (ABCD), Level 4

*Session Chairs:*
- Jennifer Ketzis, Ross University School of Veterinary Medicine, Saint Kitts and Nevis
- Kathryn Duncan, Oklahoma State University, United States

16:30 - 16:45
**OA26.01** Molecular Detection of Filarial Parasites in Hunting Dogs from Southern Italy
Melissa Beall, Istituto Zooprofilattico Sperimentale del Mezzogiorno, Italy

16:45 - 17:00
**OA26.02** A Case of Canine Dracunculus Sp. Infection from Spain
Irina Diekmann, IDEXX Laboratories, Spain

17:00 - 17:15
**OA26.03** Detection and Prevalence of Cercopithifilaria Baina Infection in Domestic Dogs and Ticks in Oklahoma
Megan Wohltjen, Oklahoma State University, United States
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#### 17:15 - 17:30
**OA26.04** The Impressive Spread of the Metastrongylid Heart and Lung Nematode Angiostrongylus Vasorum in Foxes as Cause for Increase of Cases of Canine Angiostrongylosis
Manuela Schnyder, University of Zurich, Switzerland

#### 17:30 - 17:45
**OA26.05** Multiple Drug Resistance in Ancyllostoma Caninum: An Emerging Threat to Canine Health
Pablo David Jimenez Castro, University of Calgary, Canada

#### 17:45 – 18:00
**OA26.06** Infectivity of Shed Angiostrongylus Vasorum and Crenosoma Vulpis L3 to Dogs
William Robbins, Atlantic Veterinary College-UPcEI, Canada

#### 16:30 - 18:00
**Breakout 2: OA27 Epidemiology**
Breakout Room 2, Hall of Ideas E&H, Level 4

- **Daniel Masiga**, International Centre Of Insect Physiology and Ecology, Kenya
- **Vito Colella**, University of Bari, Italy

#### 16:30 - 16:45
**OA27.01** “Tekenscanner”: A Novel Smartphone App for Companion Animal Owners and Veterinarians to Engage in Tick and Tick-Borne Pathogen Surveillance in the Netherlands
Frans Jongejan, Utrecht Centre for Tick-borne Diseases, Utrecht University, Netherlands

#### 16:45 - 17:00
**OA27.02** Detection of Anti-Alpha-Gal Antibodies in Dogs and the Possible Implications in Red Meat Allergy and Protection to Infectious Diseases
Adnan Hodžić, Small Animal Clinic, Department for Companion Animals, University of Veterinary Medicine Vienna, Austria

#### 17:00 – 17:15
**OA27.03** Diversity of Parasites of Companion Dogs and Cats in East and Southeast Asia. Part 1: Endoparasites
Vito Colella, Boehringer Ingelheim Animal Health, China

#### 17:15 – 17:30
**OA27.04** Diversity of Parasites of Companion Dogs and Cats in East and Southeast Asia. Part 2: Ectoparasites and Vector-Borne Diseases
Lénaïg Halos, Boehringer Ingelheim Animal Health, France

#### 17:30 - 17:45
**OA27.05** Finding What You Aren’t Looking For: A Survey of Parasitic and Infectious Diseases in Dogs in Grenada, West Indies
Tara Paterson, St. George’s University, Grenada

#### 16:30 - 18:00
**Breakout 3: OA28 Alternative treatments for Parasites in Ruminants I**
Breakout Room 3, Hall of Ideas F&I, Level 4

- **Vincenzo Lorusso**, Vetoquinol, France
- **Bailey Chalut**, University of Rhode Island, United States

#### 16:30 - 16:45
**OA28.01** The Nordic Seaweeds Saccharina Latissima and Laminaria Digitata Have Potent Anthelmintic Effects In Vitro
Charlotte Smith Bonde, CSIC-Universidad de León, Dept. of Animal Health, Spain

#### 16:45 - 17:00
**OA28.02** Microbial Crystals for the Treatment of Veterinary Gastrointestinal Nematodes
Ambily Abraham, Dept. Biomedical Sciences and Pathobiology, VA-MD College of Veterinary Medicine, Virginia Tec, United States

#### 17:00 - 17:15
**OA28.03** Anthelmintic and Metabolomic Analyses of Chicory (Cichorium Intybus) Extracts Revealed an Industrial By-Product with Activity Against Drug-Sensitive and Drug-Resistant Nematodes
Miguel Peña-Espinoza, University of Copenhagen, Denmark

#### 17:15 - 17:30
**OA28.04** Scientific Validation of Ethnobotanicals Used Against Rhipicephalus Micropus in Pakistan
Muhammad Arfan Zaman, College of Veterinary and Animal Sciences, Pakistan
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16:30 - 18:00 Breakout 4: OA29 Unusual Protozoa
Breakout Room 4, Hall of Ideas G&J, Level 4
Session Chairs:
• Sangaran Arumugam, Madras Veterinary College, India
• Eleanor Senior, Institute of Infection and Global Health-University of Liverpool, United Kingdom
16:30 - 16:45 OA29.01 Characterization of Vivaxin, a Novel Bloodstream-Stage, Species-Specific, Cell-Surface Family as Potential Vaccine Candidates Against the Livestock Parasite Trypanosoma Vivax
Alessandra Romero-Ramirez, Instituto de Medicina Molecular-João
16:45 - 17:00 OA29.02 Prevalence and Molecular Identification of Babesia Species in Asymptomatic Dogs (Canis Familiaris) in the Federal Capital Territory, Abuja, Nigeria
Sylvester Obeta, National Veterinary Research Institute, Nigeria
17:00 - 17:15 OA29.03 Effects of a TrxR Amino Acid Mutation on Enzyme Activity in Babesia Microti and the Different Roles of Inhibitors
Houshuang Zhang, Shanghai Veterinary Research Institute, China
17:15 - 18:00 OA29.04 Identification of East Coast Fever and Corridor Disease Discriminatory Sequence Variations in Allele 1 of the Sporozoite Antigen gene p67
Donald Mukolwe Lubembe, School of Biological Sciences, University of Nairobi, Kenya
17:30 - 17:45 OA29.05 Differential Gene Expression Response in Domestic Cats (Felis catus) Experimentally Infected with Cytauxzoon felis
Ruth Scimeca, Oklahoma State University, United States
17:45 - 18:00 OA29.06 Status, Ultrastructure and Subtypes of Blastocystis in Poultry (Gallus Gallus) of Peninsular Malaysia
Siti Nursheena Mohd Zain, Universiti Malaya, Malaysia

16:30 - 18:00 Breakout 5: OA30 IAFWP Symposium
Breakout Room 5, Meeting Rooms KLOP, Level 4
Session Chairs:
• Nichola Calvani, The University of Sidney, Australia
• Brent Dixon, Health Canada, Canada
16:30 - 16:45 OA30.01 Unexpected High Toxoplasma Gondii Prevalence in Waterfowl and Seagulls
Sawsan Ammar, Pennsylvania Game Commission, United States
16:45 - 17:00 OA30.02 A Duplex PCR for the Simultaneous Detection of Fasciola Hepatica and Clonorchis Sinensis
Yi Yang, Institute of Preventive Veterinary Medicine, College of Animal Sciences, Zhejiang University, China
17:00 - 17:15 OA30.03 Who's Who in the Poo: A Taqman Assay for the Differentiation of Fasciola Hepatica, Fasciola Gigantica and Co-infection in Ruminant Faecal Samples
Nichola Calvani, Laboratory of Veterinary Parasitology, Sydney School of Veterinary Science, Faculty of Science, The University of Sydney, Australia
17:15 - 18:00 OA30.04 Study on Zoonotic Parasites in Game in Brandenburg, Germany
Karsten Nöckler, Federal Institute for Risk Assessment, Germany

18:00 - 19:00 LIWC Awards Ceremony
Breakout Room 3, Hall of Ideas F&I, Level 4

18:00 – 20:00 IDEXX Product Launch and Reception - Echinococcus Updates: Prevalence in North America and New Diagnostic Options
Plenary Hall, Madison Ballroom (ABCD), Level 4
Please see page 31 for more information.
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7:00 – 8:30    Fun Run
Sponsored by Boehringer Ingelheim
The meeting point is at the Exhibit Hall Archway, located on Level 1 of
the Monona Terrace Community and Convention Center.
Please see page 28 for more information.

08:30 - 10:30    Plenary Lecture 4.0
Vetinary Entomology: Outbreak and Advancements
Plenary Hall, Madison Ballroom, Level 4
Session Chair:
• Mason Reichard, Oklahoma State University, United States

08:30 – 09:00    PL 4.1 Introduction to Veterinary Entomology: Outbreak and
Advancements
Mason Reichard, Oklahoma State University, United States

09:00 – 09:30    PL 4.2 Discovery, Surveillance, and Control of Haemaphysalis
Longicornis, The Asian Longhorned Tick, in New Jersey
Nicole Lewis, New Jersey Department of Agriculture, United States

09:30 – 10:00    PL 4.3 One Health Approach to Manage the Threat of Ticks and
Tickborne Diseases in North America
Adalberto Perez de Leon, United States Department of Agriculture -
Agricultural Research Services, United States

10:00- 10:30    PL 4.4 Ecology and Behavior of Triatomines and Trypanosoma Cruzi
at the Human-Wildlife-Dog Interface in the Southern United States
Sarah Hamer, Texas A&M, United States

10:30 – 11:00    Coffee Break
Exhibit Hall, Hall A, Level 1

11:00 – 12:30    Breakout Sessions
Breakout 1: OA31 Anthelmintic Resistance in Ruminants
Plenary Hall, Madison Ballroom (ABCD), Level 4
Session Chairs:
• Karen Snowden, Texas A&M University, United States
• Eranga Seram, University of Saskatchewan, Canada

11:00 – 11:15    OA31.01 Development of High Throughput Method for the Analysis of
Anthelmintic Resistance Allele Frequencies in Field Populations of
Gastrointestinal Nematodes
Umer Chaudhry, University of Edinburgh, United Kingdom

11:15 – 11:30    OA31.02 A 16-Year Retrospective Analysis of Anthelmintic Resistance in
Haemonchus Contortus on Small Ruminant Farms in the United States
Sue Howell, University of Georgia-Dept. of Infectious Diseases, United
States

11:30 – 11:45    OA31.03 Evidence of Widespread Anthelmintic Resistance in Cattle in
Ireland
Theo de Waal, Teagasc, Animal and Grassland Research and Innovation
Centre, Ireland

11:45 – 12:00    OA31.04 Nicotine-Sensitive Acetylcholine Receptors Are Relevant
Pharmacological Targets for the Control of Multidrug Resistant
Parasitic Nematodes
Elise Courtot, INRA, Université de Tours, UMR1282, France

12:00 – 12:15    OA31.05 Anthelmintic Combinations: a Sustainable Strategy to
Optimize Parasite Control on Commercial Cattle Farms?
Candelia Canton, Laboratorio de Farmacología, Centro de Investigación
Veterinaria de Tandil (CIVETAN), UNCPBA-CONICET-CICPBA, Argentina
11:00 - 12:30  Breakout 2: OA32 Avian Parasites  
Breakout Room 2, Hall of Ideas E&H, Level 4  
Session Chairs:  
• Alexandra Pagac, Penn State University, United States  
• Georg van Samson-Himmelstjerna, Freie Universität Berlin, Germany  
11:00 - 11:15  OA32.01 Resistance to Fenbendazole in Ascaridia Dissimilis and Its Economic Impact of the Production of Turkeys  
James Collins, George Mason University, United States  
11:15 - 11:30  OA32.02 Methodology for the Assessment of Parasitic Infections Caused by Allopsoroptoides galli (Acari, Psoroptoididae) in Laying Hens  
Paulo Henrique Sellmann Sampaio, Animal Health Research Center, Bioclogical Institute, Brazil  
11:30 - 11:45  OA32.03 On-Animal Sensors to Assess Chicken Body Louse Effects on Poultry Behavior and Welfare  
Amy Murillo, University of California Riverside, United States  
11:45 - 12:00  OA32.04 More Effective Control of House Flies in Poultry Facilities Using the Fungus Beauveria Bassiana  
Alexandra Pagac, Penn State University, United States  
12:00 - 12:15  OA32.05 Effect of an Herbal Complex Against Common Parasites of Animals and Poultry in Pakistan  
Muhammad Arfan Zaman, College of Veterinary and Animal Sciences, Pakistan  

11:00 - 12:30  Breakout 3: OA33 Equine Cyathostomes I  
Breakout Room 3, Hall of Ideas F&I, Level 4  
Session Chairs:  
• Marcelo Molento, UFPR-Brazil, Brazil  
• Ashley Steuer, University of Kentucky, United States  
11:00 - 11:15  OA33.01 A Coprological Survey on Internal Parasites of Horses in Italy  
Vincenzo Veneziano, Istituto Zooprofilattico Sperimentale Lazio e Toscana, Italy  
11:15 - 11:30  OA33.02 Precision, Sensitivity, and Specificity Analysis of an Automated Parasite Fecal Egg Counting System in Comparison to McMaster and Wisconsin Methods  
Jennifer Cain, Lincoln Memorial University, United States  
11:30 - 11:45  OA33.03 A Parasite for all Seasons: Investigation of Seasonality in Strongyle Egg Shedding and Strongylus Vulgaris  
Haley Anderson, University of Kentucky, Maxwell H. Gluck Equine Research Center, United States  
11:45 - 12:00  OA33.04 It's All About the Mucus? Evaluation of the Immune Response to Larvicidal Treatment of Equine Cyathostomin Infection  
Ashley Steuer, University of Kentucky, Maxwell H. Gluck Equine Research Center, United States  
12:00 - 12:15  OA33.05 Strongylus Vulgaris and Colic in Swedish Horses: A Case-Control Study  
Eva Tydén, National Veterinary Institute, Department of Microbiology, Sweden
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11:00 - 12:30  Breakout 4: OA34 Flies and Fly Control in Ruminants
Breakout Room 4, Hall of Ideas G&J, Level 4
Session Chairs:
• Casey White, Central Life Sciences, United States
• Gina Karam, University of Manitoba, Canada

11:00 - 11:15  OA34.01 Impacts of Long-Term Insecticide Treatment Regimes on SKRD and KDR Pyrethroid Resistance Alleles in Horn Fly Field Populations
Luísa N Domingues, USDA-ARS Knipling-Bushland U. S. Livestock Insects Research Lab, Veterinary Pest Genomics Center, United States

11:15 - 11:30  OA34.02 Cypermethrin Resistance in Stable Fly Populations from Central Brazil
Luísa N Domingues, USDA-ARS Knipling Buschland Livestock Insects Research Laboratory, United States

11:30 - 11:45  OA34.03 Selected Insecticide Delivery Devices for Management of Horn Flies (Haematobia irritans) (Diptera: Muscidae) on Beef Cattle
Sonja Swiger, Texas A&M AgriLife Extension, United States

11:45 - 12:00  OA34.04 Examining Cattle Producer Management of Horn Flies, Haematobia irritans (L.) (Diptera: Muscidae)
Rebecca Trout Fryxell, University of Tennessee, United States

12:00 - 12:15  OA34.05 Back from the Dead: Resurrection of the USA Horse Fly Tabanus Variegatus Fabricius 1805
Bradley Mullens, University of California, United States

12:15 - 12:30  OA34.06 Adult Population Dynamics of the Stable Fly (Stomoxys Calcitrans, L.) on Dairy Farms of Manitoba, Canada
Gina Karam, University of Manitoba, Canada

11:00 - 12:30  Breakout 5: OA35 Ruminant Trematodes I
Breakout Room 5, Meeting Rooms KLOP, Level 4
Session Chairs:
• Ramon Eichenberger, University of Zurich, Switzerland
• John Sanders, Virginia Maryland School of Veterinary Medicine, United States

11:00 - 11:15  OA35.01 Diagnosis of Albendazole Resistance in Fasciola Hepatica
Luis Alvarez, Centro de Investigación Veterinaria de Tandil (CIVETAN), UNCPBA-CICPBA-CONICET, Argentina

11:15 - 11:30  OA35.02 On Farm Risk Mapping of Liver Fluke (Fasciola Hepatica): Current Evidence and Future Directions
Dominique Maree Marendy, School of Rural and Environmental Science, University of New England, Australia

11:30 - 11:45  OA35.03 Evaluation of Anthelmintic Efficacy of Silver Nanoparticles against Fasciola Hepatica, Parasite of Ruminants, Lahore, Pakistan
Asma Abdul latif, Department Of Zoology, lahore College For Women University, Pakistan

11:45 - 12:00  OA35.04 Assessment of Factors Influencing Faecal Diagnostic Outcomes and Predictive Modelling of Endemic Fasciola Hepatica on Australian Sheep and Cattle Farms
Sarah George, Elanco Animal Health, Australia

12:00 - 12:15  OA35.05 Fasciola Hepatica: Secreted Molecules Associated with Liver Pathogenesis
Krystyna Cwiklinski, Queen’s University Belfast, United Kingdom

12:15 - 12:30  OA35.06 Dynamic Transcriptomic Analyses of the Entire Life Cycle of Fasciola Gigantica Identify Key Processes Through Vastly Different Environments
Xing-Quan Zhu, Lanzhou Veterinary Research Institute, Chinese Academy of Agricultural Sciences, China
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12:30 – 13:30  **Lunch Break**
Exhibit Hall, Hall A, Level 1

12:30 – 13:30  **Zoetis Lunch Symposium - Heartworm Disease Prevention Using Controlled Compliance**
Plenary Hall, Madison Ballroom (ABCD), Level 4
Please see page 31 for more information.

13:30 – 15:30  **Breakout Sessions**
**Breakout 1: OA36 Treatment and Control of GI Nematodes in Ruminants**
Plenary Hall, Madison Ballroom (ABCD), Level 4
**Session Chairs:**
- **Emma Borkowski**, Ontario Veterinary College, Canada
- **Pablo Godoy**, University of Montreal, Canada

- **OA36.01 Performance Characteristics of the Adequacy of Infection Criteria Recommended in VICH GL 7 for Anthelmintic Efficacy studies**
  Xiongce Zhao, FDA/Center for Veterinary Medicine, United States

- **OA36.02 Effects of Anthelmintic Treatment on Production Performance, Carcass Quality, and Predominant Nematode Species in Feedlot Cattle from Western Canada**
  Eranga De Seram, University of Saskatchewan, Canada

13:30 - 13:45  **OA36.01** Performance Characteristics of the Adequacy of Infection Criteria Recommended in VICH GL 7 for Anthelmintic Efficacy studies
Xiongce Zhao, FDA/Center for Veterinary Medicine, United States

13:45 - 14:00  **OA36.02** Effects of Anthelmintic Treatment on Production Performance, Carcass Quality, and Predominant Nematode Species in Feedlot Cattle from Western Canada
  Eranga De Seram, University of Saskatchewan, Canada

14:00 - 14:15  **OA36.03** Relative Effectiveness of a Slow Release Drug Versus Strategic Administration of a Short Acting Anthelmintic for Controlling Nematodes in US Beef Cattle
  Louis GASBARRE, Gasbarre Consulting, United States

14:15 - 14:30  **OA36.04** Longitudinal Study on the Effect of Moxidectin Administration with and Without an ‘Exit’ Drench on Production and Parasitological Parameters in a UK Sheep Flock
  DAVE BARTLEY, Moreduin Research Institute, United Kingdom

14:30 - 14:45  **OA36.05** Anthelmintic Efficacy and Pharmacokinetics of Topical 0.5% W/V Eprinomectin (EPRINEX®) Administered at 1 Mg per Kg Body Weight in Lactating Dairy Goats with Induced Nematode Infections
  Dietmar Hamel, Boehringer Ingelheim Vetmedica GmbH, Kathrinenhof Research Center, Germany

14:45 - 15:00  **OA36.06** Nemabioime Analysis Reveal a Change in Parasite Fauna After Years of Anthelmintic Treatment
  Peter Halvarsson, Swedish University of Agricultural Sciences, Sweden

15:00 - 15:15  **OA36.07** Boron-containing Compounds Are Rich Source of Future Antiparasitic Agents
  Yong-Kang Zhang, Boragen, Inc., United States

15:15 - 15:30  **OA36.08** New Benzimidazole Derivates As Potential Anthelmintic Compounds
  Elora Valderas, Universidad de León, Spain

13:30 – 15:30  **Breakout 2 OA37 Poultry Coccidia, Aquatic Infections**
Breakout Room 2, Hall of Ideas E&H, Level 4
**Session Chairs:**
- **Anja Joachim**, Vetmeduni Vienna, Austria
- **Rachel Imai**, University of Guelph, Canada

- **OA37.01** Hemato-Biochemical and Histopathological Investigations Following Concurrent Coccidia and Clostridia Experimental Infection in Broiler Chickens Vaccinated with Clostridia Toxoid and/or Coccidia Vaccine
  Soad Nasr, Department of Parasitology and Animal Diseases, National Research Center, Egypt

- **OA37.02** The Role of Parasitic Crustacea as Vectors of Aquatic Diseases
  Nico J Smit, North-West University, South Africa
14:00 - 14:15  OA37.03 Processing of Bovine Faecal Samples by New Parasitological Technique and Perspectives of Automation in the Diagnosis of Cryptosporidium SPP
Katia Bresciani, São Paulo State University (UNESP), School of Veterinary Medicine, Brazil

14:15 - 14:30  OA37.04 The Effect of Long-Term Cell-Culture Passage on Sarcocystis Neurona Genome Content And Predicting Genes Necessary For Completion Of The Parasite Life Cycle
Jamie Norris, Department of Veterinary Science - University of Kentucky, United States

14:30 - 14:45  OA37.05 Biological and Molecular Characterization of a Pathogenic Unnamed Eimeria Species Causing Clinical Coccidiosis in Commercial Chukar Partridge (Alectoris Chukar) Flocks in Ontario
Jessica Rotolo, University of Guelph, Canada

14:45 - 15:00  OA37.06 When Minor Species Are Not So Minor: Eimeria Innocua, Far from Innocuous
Rachel Imai, Department of Pathobiology, Ontario Veterinary College, University of Guelph, Canada

13:30 - 15:30  Breakout 3 OA38 Equine Cyathostomes II
Breakout Room 3, Hall of Ideas F&I, Level 4
Session Chairs:
• Jürgen Krücken, Freie Universität Berlin, Germany
• Jennifer Bellaw, University of Kentucky, United States

13:30 - 13:45  OA38.01 Equine Cyathostomins 1: Relative Importance and Challenges to Sustainable Control
Craig Reinemeyer, East Tennessee Clinical Research, Inc., United States

13:45 - 14:00  OA38.02 Equine Cyathostomins 2. What Does Building and Running the Model Tell Us?
Dave Leathwick, Agresearch, New Zealand

14:00 - 14:15  OA38.03 Equine Cyathostomins 3. The Importance of Genetic and Fitness Parameters When Modelling Anthelmintic Resistance
Christian Sauermann, AgResearch, New Zealand

14:15 - 14:30  OA38.04 Equine Cyathostomins 4: The Impact of Climate and Seasonality on Anthelmintic Resistance Development
Martin Nielsen, University of Kentucky, United States

14:30 - 14:45  OA38.05 Characterization of the Cyathostominae Community within the Equine Large-Intestine “Nemabiome”: Morphological Identification and Next-Generation Sequencing
Jennifer Bellaw, Department of Veterinary Science, University of Kentucky, United States

14:45 - 15:00  OA38.06 Equine Cyathostomins 5: Benefits of Selective Anthelmintic Therapy are Age and Climate Dependent
Martin Nielsen, University of Kentucky, United States

15:00 - 15:15  OA38.07 Outbreak of Acute Larval Cyathostominosis After Anthelmintic Treatment: Investigation of the Clinico-Pathological Parameters and the Faecal Microbiome Changes in Twelve Horses
Nicola Walshe, School of Veterinary Medicine, Ireland

15:15 - 15:30  OA38.08 Cyathostomin Infection Influencing Growth Rate and Performance of Thoroughbred
Marcelo Molento, UFPR, Brazil

13:30 - 15:30  Breakout 4 OA39 Insecticide and Acaricide Resistance in Ruminants
Breakout Room 4, Hall of Ideas G&J, Level 4
Session Chairs:
• Jessica Scare Kenealy, University of Kentucky Gluck Equine Research Center, United States
• Annetta Zintl, University College Dublin, Ireland
13:30 - 13:45  OA39.01 Macroyclic Lactones Side-Resistance in Isolates of Rhipicephalus Microplus From Rio Grande Do Sul, Brazil
Guilherme Klafke, Instituto de Pesquisas Veterinarias Desiderio Finamor, Secretaria da Agricultura do Rio Grande do Sul, Brazil

13:45 - 14:00  OA39.02 Detection of Resistance to Chemical Acaricides in Rhipicephalus (Boophilus) Microplus Ticks from Selected Cattle Farms in Luzon, Philippines
Remil Galay, College of Veterinary Medicine, University of the Philippines Los Banos, Philippines

14:00 - 14:15  OA39.03 Monitoring the Resistance of Rhipicephalus Microplus to Conventional Acaricides (Coumaphos, Amitraz and Flumethrin) and Ivermectin on Cattle Farms in Mexico
Roger Ivan Rodriguez-Vivas, Universidad Autonoma De Yucatan, Mexico

14:15 - 14:30  OA39.04 Mapping Acaricide Resistance of the Three Major Cattle Tick Species Amblyomma Variegatum, Rhipicephalus Appendiculatus and Rhipicephalus Microplus in East and West Africa by Using the Larval Packet Test (LPT)
Maxime Madder, Clinglobal, Mauritius

14:30 - 14:45  OA39.05 Efficacy of a New 2.5% Fluazuron, 7% Chlorpyrifos, 6% Cypermethrin, 6% Piperonyl Butoxide-based Pour-On Formulation Against Rhipicephalus (Boophilus) Microplus in a Cattle Population under Field Conditions in Brazil
Vanessa Chala, Virbac, France

14:45 - 15:00  OA39.06 In Vivo and In Vitro Parameters for Acaricide Efficacy of Macroyclic Lactones Against Psoroptes Ovis in Cattle
Wouter Van Mol, Department of Virology, Parasitology and Immunology, Faculty of Veterinary Medicine, Ghent University, Belgium

15:00 - 15:15  OA39.07 Acaricidal Activity of Nanoscale ZnO Encapsulated Piperine Formulation Against Rhipicephalus Microplus
Vukka Chengalva Rayulu, Sri Venkateswara University, India

15:15 - 15:30  OA39.08 Failure of Macro cyclic Lactones to Control Psoroptic Mange Infection in Feedlot and Grazing Beef Cattle
Adrian Lifschitz, Laboratorio de Farmacología, Centro de Investigación Veterinaria de Tandil (CIVETAN), UNCPBA-CONICET-CICPBA, Argentina

13:30 - 15:30  Breakout 5 OA40 Zoonoses
Breakout Room 5, Meeting Rooms KLOP, Level 4
Session Chairs:
  • Vachel Gay Paller, University of the Philippines Los Baños, Philippines
  • Temitope Kolapo, University of Saskatchewan, Canada

13:30 - 13:45  OA40.01 Zoonotic Malaria Parasites Among Non-Human Primates in Sarawak, Malaysian Borneo
Balbir Singh, Malaria Research Centre, Universiti Malaysia Sarawak, Malaysia

13:45 - 14:00  OA40.02 Neuroinflammation and Neurodegeneration during Toxocara Canis and T. Cati-Induced Neurotoxocarosis in Mice
Andrea Springer, Institute for Parasitology, Centre for Infection Medicine, University of Veterinary Medicine Hannover, Germany

14:00 - 14:15  OA40.03 Accurate Diagnosis of Lesions Suspected of Being Caused by Taenia Solium in Body Organs of Pigs with Naturally Acquired Porcine Cysticercosis
Marshall Lightowlers, Faculty of Veterinary and Agricultural Sciences, Australia

14:15 - 14:30  OA40.04 Prevalence of Ticks Parasitizing Human Beings in the Nilgiris Hills of Southern India
Soundararajan Chinnaiyan, Tamilnadu Veterinary and Animal Sciences University, India
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14:30 - 14:45  OA40.05 Control of Taenia Solium Transmission by Vaccination of Pigs
Marshall W Lightowlers, Faculty of Veterinary and Agricultural Sciences, Australia

14:45 - 15:00  OA40.06 Improved Diagnostics for Echinococcus Multilocularis in Wild and Domestic Canid Species.
Temitope Kolapo, University of Saskatchewan, WCVM, Canada

15:00 - 15:15  OA40.07 Screening of dogs for Echinococcus granulosus infection by Copro-Polymerase Chain Reaction
Ananda Konanur Javaregowda, Department of Veterinary Parasitology, Karnataka Veterinary, Animal And Fisheries Sciences University (b), Veterinary C, India

15:30 – 16:30  Coffee Break & Poster Session 3 Display with Authors
Exhibit Hall, Hall A, Level 1
Please see page 69 for more information on the list of poster presenters.

16:30 – 16:45  Breakout 1: OA41 Biology and Pathology of GI Nematodes in Ruminants
Plenary Hall, Madison Ballroom (ABCD), Level 4
Session Chairs:
• James Collins, University of Georgia, United States
• Andrew Greer, Lincoln University, New Zealand

16:30 - 16:45  OA41.01 Demonstration of Overwintering of Ostealgia Ostertagi and Cooperia Oncophora L3 Larvae on Pasture in Western Canada
Tong Wang, University of Calgary, Canada

16:45 - 17:00  OA41.02 Outbreak of Calf Sudden Death Associated with Strongyloides Papillosus Infection in a Western New York Dairy Farm
Manigandan Lejeune, Department of Population Medicine & Diagnostic Sciences, College of Veterinary Medicine, Animal Health Diagnostic Center, Cornell University, United States

17:00 - 17:15  OA41.03 Nematode Exsheathment 2: Abomasal Species Differ in Their Response to Exsheathment Triggers
Kiliana Bekelaar, Agresearch Ltd, New Zealand

17:15 - 17:30  OA41.04 Studies on Gastrointestinal Nematodes of Australian Alpacas Abdul Jabbar, Melbourne Veterinary School, The University of Melbourne, Australia

17:30 - 17:45  OA41.05 Differences Within Churra Breed Sheep in the Early Immune Response to the Infection by Teladorsagia Circumcincta Verónica Castilla Gómez De Agüero, Universidad de Leon, Spain

16:30 – 18:00  Breakout 2: OA42 Diagnostic Techniques
Breakout Room 2, Hall of Ideas E&H, Level 4
Session Chairs:
• Alice Lee, University of Florida, United States
• Samantha Nixon, The University of Queensland, Australia

16:30 - 16:45  OA42.01 The Babesia Caballi Spherical Body Protein 4 (SBP-4) Is Recognized by Antibodies in Sera from B. Caballi Infected Equids in Egypt and Has Potential for Developing Novel Serological Diagnostic Method
Seham Hendawy, National Research Centre, Veterinary Research Division, Parasitology and Animal Diseases Department, Egypt
Scientific Program
Wednesday, July 10, 2019

16:45 - 17:00  OA42.02 In Vitro Evaluation of the Activity of a Mycotoxin Produced by the Entomopathogenic Fungus Beauveria Bassiana Against Sarcoptes Scabiei
Jacques Guillot, Veterinary College of Alfort, France

17:00 - 17:15  OA42.03 Improved Patient Care by Combining Diagnostic PCR Panels with Fecal Antigen and Fecal Flotation Tests in Dogs with Diarrhea
M. Alexis Seguin, Idexx Laboratories Inc., United States

17:15 - 17:30  OA42.04 Contemporary Status of Equine Trypanosomosis in Punjab, India
Lachhman Singla, Department of Veterinary Parasitology, Guru Angad Dev Veterinary and Animal Sciences University, India

17:30 - 17:45  OA42.05 Detection of Blastocystis Mixed Subtype Infections in Dairy Calves Using Next Generation Amplicon Sequencing
Jenny Maloney, USDA, ARS, EMFSL, United States

16:30 - 18:00  Breakout 3 OA43 Equine Parasites
Breakout Room 3, Hall of Ideas F&I, Level 4
Session Chairs:
• Martin Nielsen, University of Kentucky, United States
• Nicola Walshe, University College Dublin, Ireland

16:30 - 16:45  OA43.01 Cross-Sectional Analysis of Infectious Disease Agents in Relation to Helminth Parasites of Healthy Equidae in an Exhibition Setting
Hayley G. Hofmar-Glennon, Department of Microbiology & Immunology, Cornell University, United States

16:45 - 17:00  OA43.02 Expansive Chemosensory, Vision, Immunity, and Insecticide Resistance Gene Families in the Stable Fly: A Functional Genomics Tale
Pia Olafson, U.S. Department of Agriculture - Agricultural Research Service, Livestock Arthropod Pests Research Unit, United States

17:00 - 17:15  OA43.03 Surveillance of Equine Strongyle Infections and the Efficacy of a Larvicidal Dose of Fenbendazole in Horses Across the United States
Brian Herrin, Kansas State University, United States

17:15 - 17:30  OA43.04 Etiology and Treatment of Buffalo Fly-Associated Lesions
Peter James, University of Queensland, Australia

17:30 - 17:45  OA43.05 Species Composition, Seasonal Incidence and Relative Abundance of Biting Midges at Horse Boarding Facility Located Near Cedar Key, Florida With a Case of Sweet Itch
Daniel Kline, USDA-ARS, CMAVE, United States

16:30 - 18:00  Breakout 4 OA44 Canine Arthropods
Breakout Room 4, Hall of Ideas G&J, Level 4
Session Chairs:
• Nicolas Lamassiaude, INRA, France
• Andrew Moorhead, University of Georgia, United States

16:30 - 16:45  OA44.01 Shall We Go for a Walk? - Tick Migration Behavior on Dogs
Heinz Sager, Elanco Animal Health, Switzerland

16:45 - 17:00  OA44.02 Assessment of an Activity Monitor (Vetrax®) and Effect of Pulicidal (Trifexis®) Treatment on Pruritic Behaviors in Flea-Bite Sensitive Dogs
Anthony Rumschlag, Elanco Animal Health, United States
Scientific Program
Wednesday, July 10, 2019

17:00 - 17:15  OA44.03 Out-of-Africa, Human-Mediated Dispersal of the Common Cat Flea, Ctenocephalides Felis: The Hitchhiker's Guide to World Domination
Jan Slapeta, Sydney School of Veterinary Science, Australia

17:15 - 17:30  OA44.04 Ectoparasite Control on Pets: Who Did It, With What and Where? A Comparison Between Pet Owners from Two High-Risk Lyme Regions in the United States
Gebbiena Bron, University of Wisconsin - Madison, United States

17:30 - 17:45  OA44.05 Pathogens in Fleas Collected from Cats and Dogs: Distribution and Prevalence in the UK
Swaid Abdullah, The University of Queensland, Australia

17:45 - 18:00  OA44.06 Tick Biting Trends on Pets Revealed by Crowdsourced Data: Some Surprises and Implications for Prevention
Heather Kopsco, University Of Rhode Island Center for Vector-borne Disease & Tick Encounter Resource Center, United States

16:30 - 18:00  Breakout 5: OA45 Ruminant Trematodes II
Breakout Room 5, Meeting Rooms KLOP, Level 4
Session Chairs:
• Ananda Konanur Javaregowda, KVAFSU, Shimoga, India
• Dominique Marendy, University of New England, Australia

16:30 - 16:45  OA45.01 Is There Are an Interplay Between Fasciola Hepatica and MAP Infection in Cattle?
Amalia Naranjo Lucena, Veterinary Pathobiology Section, UCD School of Veterinary Medicine, Ireland

16:45 - 17:00  OA45.02 Development of a Nest-PCR for the Detection of Fasciola Hepatica in the Intermediate Snail Host, Radix Cucunorica, and the Evaluation of Transmission Risk in Northwestern China
Si-yang Huang, College of Veterinary Medicine, Yangzhou University, China

17:00 - 17:15  OA45.03 Molecular and Morphological Characterization of Liver Fluke Intermediate Host Lymnaeids (Gastropoda: Lymnaeidae) Snails from Selected Regions of Okavango Delta of Botswana, KwaZulu-Natal and Mpumalanga Provinces of South Africa
Samson Mukaratirwa, University of KwaZulu-Natal, School of Life Sciences, South Africa

17:15 - 17:30  OA45.04 Characterization of the Mitochondrial Genome Sequences of the Liver Fluke Amphimerus (Trematoda: Opisthorchiidae) From Ecuador and Phylogenetic Implications
Jun Ma, State Key Laboratory of Veterinary Etiological Biology, Key Laboratory of Veterinary Parasitology of Gansu Province, Lanzhou Veterinary Research Institute, Chinese Academy of Agricultural Sciences, China

17:30 - 17:45  OA45.05 Global Serum Proteomic Changes in Water Buffaloes Infected with Fasciola Gigantica
Jun-Jun He, Lanzhou Veterinary Research Institute, Chinese Academy of Agricultural Sciences, China

18:00 - 20:00  Merck Product Launch and Reception - Because Science Never Stops, Merck Animal Health Works
Plenary Hall, Madison Ballroom (ABCD), Level 4
Please see page 32 for more information.
Scientific Program
Thursday, July 11, 2019

08:30-10:30  Breakout Sessions
Breakout 1: OA46 Gastrointestinal Protozoa in Ruminants
Plenary Hall, Madison Ballroom (ABCD), Level 4
Session Chairs:
• Antoinette Marsh, Ohio State University, United States
• Grace VanHoy, Ohio State University, United States

08:30 - 08:45  OA46.01 Comparing Different Metabarcoding Approaches to Investigate Eimeria Species Diversity and Community Structure in Cattle
Libby Redman, Faculty of Veterinary Medicine University of Calgary, Canada

08:45 - 09:00  OA46.02 A New Real-Time PCR Method for Identification of Two Pathogenic Eimeria Species in Sheep, E. Ovinoidalis and E. Crandallis
Lea Bordes, UMR INRA/ENVT 1225 IHAP, France

09:00 - 09:15  OA46.03 Cryptosporidium Parvum gp45 Protein Is a Promising Vaccine Candidate to Prevent Bovine Cryptosporidiosis
Karine Sonzogni-Desautels, Research Institute of the McGill University Health Centre, Canada

09:15 - 09:30  OA46.04 New Leads and Drug Targets in the Zoonotic Cryptosporidium Parvum by Phenotypic Drug Screening
Guan Zhu, Department of Veterinary Pathobiology, College of Veterinary Medicine & Biomedical Sciences, United States

09:30 - 09:45  OA46.05 Cryptosporidium Parvum Animal Model in Neonatal Calves
Debora Smits, GD Animal Health, Netherlands

09:45 - 10:00  OA46.06 Evaluating the “Protobiome”: A Novel Diagnostic Tool for the Sustainable Control of Protozoan Parasite Communities in Ruminants
Umer Chaudhry, University of Edinburgh, United Kingdom

08:30-10:30  Breakout 2: OA47 Wildlife Helminths
Breakout Room 2, Hall of Ideas E&H, Level 4
Session Chairs:
• Smaragda Sotiraki, Vet Res Inst HAO DEMETER, Greece
• Jeff Gruntmeir, University of Florida, United States

08:30 – 08:45  OA47.01 Occurrence, Prevalence and Intensity of Internal Parasite Infections of African Lions (Panthera Leo) in Enclosures at a Recreation Park in Zimbabwe
Whatmore Tagwireyi, University of Pretoria, South Africa

08:45 - 09:00  OA47.02 Clinical Crenosomosis Lungworm Infection in a Black Bear (Ursus Americanus)
Haifaa Mahjoub, University of Prince Edward Island, Canada

09:00 - 09:15  OA47.03 Fecal Examinations to Inform Deworming Protocols of Raccoons (Procyon lotor) Entering a Rehabilitation Center in Upstate New York
Araceli Lucio-Forster, Cornell University College of Veterinary Medicine, United States

09:15 – 09:30  OA47.04 Occurrence of a Zoonotic Tapeworm, Taenia Crassiceps (Zeder, 1800) Rudolphi, 1810 in a Muskrat (Ondatra Zibethicus) in New York State, USA
Manigandan Lejeune, Department of Population Medicine & Diagnostic Sciences, College of Veterinary Medicine, Animal Health Diagnostic Center, Cornell University, United States

09:30 - 09:45  OA47.05 Investigating the Potential Impact of Heterobilharzia Americana on Endangered Florida Panthers (Puma Concolor Coryi)
Karen F. Snowden, Texas A&M University, College of Veterinary Medicine, United States
Scientific Program
Thursday, July 11, 2019

09:45 - 10:00  OA47.06 Mammomonogamus N. Sp. From the Nasal Cavity of River Otter (Lontra Canadensis) in Canada
Gary Conboy, Atlantic Veterinary College-uepi, Canada

09:45 - 10:15  OA47.07 The Unseen Side of a Bio-Invasion: A Unique Spatiotemporal Study of Infection Dynamics in a Natural Large-Scale Perturbation Experiment
Peter Stuart, Trinity College Dublin, Ireland

10:15 - 10:30  OA47.08 The Role of Wildlife in Parasitic Zoonoses: The Case of Philippine Wildlife
Vachel Gay Noreen Paller, University of the Philippines, Philippines

08:30 - 10:30  Breakout 3: OA48 Equine Ascarids
Breakout Room 3, Hall of Ideas F&I, Level 4
Session Chairs:
• Dan Howe, University of Kentucky, United States
• Jennifer Cain, University of Kentucky, United States

08:30 - 08:45  OA48.01 Long Live the Worms: In Vitro Maintenance for Intestinal Stages of Parascaris Spp. And a Method for Assessing Viability
Jessica Scare, University of Kentucky, Gluck Equine Research Center, United States

08:45 - 09:00  OA48.02 Hatching Protocol and in Vitro Exposure to Ivermectin in Parascaris Univalens
Eva Tydén, Swedish University of Agricultural Sciences, Sweden

09:00 - 09:15  OA48.03 Expression of Drug Metabolizing Genes in Parascaris Univalens
Frida Martin, Swedish University of Agricultural Sciences, Sweden

09:15 - 09:30  OA48.04 Differential Transcriptome Analysis of Parascaris Univalens After In Vitro Exposure to Ivermectin, Pyrantel and Thiabendazole
Frida Martin, Swedish University of Agricultural Sciences, Sweden

09:30 - 09:45  OA48.05 Effect of Macro cyclic Lactones on Parascaris Sp. Glutamate-Gated Chloride Channels
Nicolas Lamassiaude, ISP, INRA, Université Tours, UMR1282, France

09:45 – 10:00  OA48.06 Ascarids Exposed: In Vitro Drug Exposure and Gene Expression Analysis of Anthelmintic Naïve Parascaris Spp.
Jessica Scare, University of Kentucky Gluck Equine Research Center, United States of America

08:30 - 10:30  Breakout 4: OA49 Ticks on Cattle
Breakout Room 4, Hall of Ideas G&J, Level 4
Session Chairs:
• Remil Galay, University of the Philippines, Philippines
• Bill Clymer, Agricultural Training & Technology, Inc., United States

08:30 - 08:45  OA49.01 Detection of Winter Tick Infested Cattle Using Near Infrared Reflectance Spectroscopy of Bovine Feces
Samantha Hays, Texas A&M University, United States

08:45 - 09:00  OA49.02 Modeling Cattle-Nilgai-Deer Interactions to Assess Impact of Nilgai on Cattle Fever Tick Eradication Efforts in the U.S.A.
Kimberly Lohmeyer, USDA-ARS, United States

09:00 - 09:15  OA49.03 Detection of Fecal Chemistry Changes in Cattle Infested with the Southern Cattle Tick, Rhipicephalus (Boophilus) Microplus
Brian Rich, Texas A&M University, United States

09:15 - 09:30  OA49.04 Interaction Between a Systemic Acaricide and Immunological Control of Rhipicephalus (Boophilus) Microplus
Charluz Arocho Rosario, Texas A&M, United States

www.WAAVP2019.com
09:30 - 09:45 OA49.05 Diagnosis of Acaricide Resistance in Cattle Tick in Three Districts of Punjab, Pakistan
Zia ud Din Sindhu, Department of Parasitology, University of Agriculture, Faisalabad, Pakistan

09:45 - 10:00 OA49.06 Comparison of Ixodes Ricinus Populations in Adjacent Habitats on a Pasture-Based Dairy Farm
Annetta Zintl, University College Dublin, Ireland

10:00 - 10:15 OA49.07 Multi-Acaricide Resistant Tick Population: Problem and Mitigation Strategy
Srikant Ghosh, Indian Veterinary Research Institute, India

08:30 - 10:30 Breakout 5: OA50 Alternative treatments for Parasites in Ruminants II
Breakout Room 5, Meeting Rooms KLOP, Level 4

08:30 - 08:45 OA50.01 Anthelmintic-like Activity of Four Polyphenolic Compounds and Their Interactions Against the Cattle Nematode Cooperia Punctata
Elke von Son-de Fernex, Centro de Enseñanza Investigación y Extensión en Ganadería Tropical, Facultad de Medicina Veterinaria y Zootecnia, Universidad Nacional Autónoma de México, Mexico

08:45 - 09:00 OA50.02 Effect of Cry5B From Bacillus Thuringiensis on Haemonchus Contortus in Experimentally Infected Sheep
John Sanders, Department of Biomedical Sciences and Pathobiology, Virginia Tech, United States

09:00 - 09:15 OA50.03 Association of Phytominerals with the Serum Trace Elements Profile and Quantitative Gastrointestinal Parasitic Burden in Grazing Sheep
Rizwan HM, Discipline of Parasitology, KBCMA College of Veterinary and Animal Sciences, Narowel Sub Campus UVAS Lahore, Pakistan

09:15 - 09:30 OA50.04 Control of Gastrointestinal Nematodes in Wool Sheep Using Novel Formulations Based on a Colombian Strain of the Nematophagous Fungi Duddingtonia Flagrans: Reduction in Eggs per Gram of Feces Indicator
Diego Cortes-Rojas, Corporacion Colombiana de Investigacion Agropecuaria - Agrosavia, Bioproducts Department, Colombia

09:30 - 09:45 OA50.05 Opuntia Ficus-Indica (L.) Mill. Hydroalcoholic Extract Against Nematodes of Sheep
Marcelo Molento, Univ Federal do Parana / Parasitic Diseases, Brazil

09:45 - 10:00 OA50.06 In Vitro Anthelmintic Efficacy of Citrullus Colocynthis on Haemonchus
Tauseef Rehman, Cornell University, United States

10:00 - 10:15 OA50.07 Discovery of Novel Amazonian Stinging Ant Venom Peptides with Activity Against the Sheep Parasites Haemonchus Contortus and Lucilia Cuprina
Samantha Nixon, Institute for Molecular Bioscience, The University of Queensland, Australia

10:15 - 10:45 Coffee Break
Exhibit Hall, Hall A, Level 1
Scientific Program
Thursday, July 11, 2019

10:30 – 12:30  AAVP, LIWC & WAAVP Organization Meetings
               Plenary Hall, Madison Ballroom (ABCD), Level 4

12:30 – 13:30  Lunch Break
               Exhibit Hall, Hall A, Level 1

12:30 – 13:30  National Center for Veterinary Parasitology (NCVP) Clicker Session –
               NCVP Parasite Case Discussion
               Plenary Hall, Madison Ballroom (ABCD), Level 4
               Please see page 32 for more information.

13:30 – 15:30  AAVP & WAAVP Joint Awards Ceremony
               Plenary Hall, Madison Ballroom (ABCD), Level 4

15:30 – 16:00  Closing Ceremony
               Plenary Hall, Madison Ballroom (ABCD), Level 4

18:00 – 23:00  Gala Dinner
               Overture Center for the Arts, 201 State St, Madison, WI 53703, USA
               Dress Code: Business Casual
               Approximately 4 minutes driving distance from the Monona Terrace
               Community and Convention Center, 12 minutes walking. Please note
               that transportation will not be provided to the Gala Dinner venue.
               Supported by Eleven Bravo LLC
SECTION 3

POSTERS
The 65th Annual Meeting of the AAVP is going to be one of the biggest and best AAVP meetings, yet, and in a gorgeous, easy-access location! The Snowbird Resort, just outside of Salt Lake City, offers an ideal venue with beautiful scenery, a meeting room design perfect for our AAVP sessions. A wide variety of options for sleeping accommodations will also be available, with single rooms, suites or condos, sleeping up to 10. All of this and beautiful scenery and summer activities too! Mountain roller coaster, Alpine slide, tram rides, mountain biking, hiking, etc. Make plans to attend!

Plan to attend the 2020 AAVP Annual Meeting June 20-23, at Snowbird Resort, in Sandy, Utah!
Poster Session 1  
Monday, July 8, 2019

Exhibit Hall, Hall A, Level 1 of Monona Terrace Community and Convention Center

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<th>Set up Time</th>
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<tr>
<td>Takedown Time</td>
<td>16:30 – 17:00</td>
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<td>Display Hours</td>
<td>10:00 – 16:30</td>
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<tr>
<td>Poster Display with Authors</td>
<td>15:30 – 16:30</td>
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Authors must be standing next to their posters during these times for questions.

Poster Presentation Track and Theme

**Track 1 - Medium**
- Cattle
- Diagnostics
- Fish
- Laboratory
- Sheep
- Wildlife

**Track 2 - Parasite**
- Flea
- Mosquitoes
- Nematode
- Other
- Other Insects
- Protozoa
- Tick
- Trematode

**Track 3 - Subject**
- Control
- Diagnosis
- Education
- Epidemiology
- Genetics
- Molecular
- Other
- Prevention
- Resistance
- Treatment
- Zoonoses

PS01.01 Preliminary Safety Study of Miltefosine in Healthy Cats Treated During 14 Days  
**Vanessa Chala**, Virbac, France

PS01.02 Effect of a Long-Acting Moxidectin on the Control of Gastrointestinal Nematodes and the Productivity of Suckling Calves  
**Elio Moro**, Zoetis Animal Health, Brazil

PS01.03 Validation of a Semi-Quantitative Real-Time PCR Assay for the Diagnosis and the Monitoring of Giardia Intestinalis Infection in Canine Faeces Samples According to the French Standard NFU47-600-2  
**Bruno Polack**, UMR BIPAR, Anses, Ecole Nationale Vétérinaire d’Alfort, INRA, Université Paris-Est, Animal Health Laboratory, France

PS01.04 Development of a Diagnostic Assay for the Detection and Differentiation of Theileria Spp. In White-Tailed Deer  
**Alec Thompson**, Southeastern Cooperative Wildlife Disease Study, Department of Population Health, College of Veterinary Medicine, University of Georgia, United States

PS01.05 Report of Lernaea Cyprinacea in Axolotl Serrano (Ambystoma Velasci) in the Municipality of Atlangatepec in Tlaxcala, Mexico  
**Maria Cristina Guerrero-Molina**, Facultad De Medicina Veterinaria Y Zootecnia-UNAM, Mexico

PS01.06 Susceptibility of Selected Strains of Cat Fleas, House Flies and Darkling Beetles Obtained From Selected Laboratory Colonies to Deltamethrin, Fipronil and Imidacloprid  
**Bill Donahue**, Sierra Research Laboratories, Inc., United States

PS01.07 Preliminary Study to Localize Adult Brugia Malayi and Brugia Pahangi Within Mongolian Gerbils (Meriones Unguiculatus) Following Subcutaneous Injection of Infective Third-Stage Larvae  
**Michael Dzimianski**, The University of Georgia, United States
Poster Session 1
Monday, July 8, 2019

PS01.08 Effects of Protein Diet Level and Haemonchus Contortus Infection on Lamb Performance
Camila Chaves, Centro de Energia Nuclear na Agricultura, Brazil

PS01.09 Highly Effective Selection for Resistance to Haemonchus Contortus Experimental Infections May Lead to Reduced Fat Deposition in Growing Sheep
Philippe Jacquiet, INRA-ENVT UMR1225, France

PS01.10 Resistance of Helminths to Closantel 10%, Albendazole 5% and Praziquantel 7.5% in Hampshire Down Sheep From the Department of Misiones, Paraguay
Jorge Miret, Facultad de Ciencias Agropecuarias y Ambientales (FCAA) Universidad Nacional de Canindeyú (UNICAN), Paraguay

PS01.11 Infestation With Larvae of the Fly Philornis Sp. Of Harris’Hawk (Parabuteo Unicincus) Young Birds in Morelos, Mexico
Maria Cristina Guerrero-molina, Facultad De Medicina Veterinaria Y Zootecnia-UNAM, Mexico

PS01.12 A Retrospective Study on the Occurrence of Parasitic Diseases of Wild Animals in Western Ghats of Karnataka, India
Ananda Konanur Javaregowda, Department Of Veterinary Parasitology, Karnataka Veterinary, Animal And Fisheries Sciences University (b), Veterinary C, India

PS01.13 Functional Characterization of a Salivary Thrombin Inhibitor From the Flea Xenopsylla Cheopis
Lucas Tirloni, Laboratory of Malaria and Vector Research, National Institute of Allergy and Infectious Diseases, National Institutes of Health, United States

PS01.14 Mosquito Distribution and Duck Tembusu Virus Infection on Duck Farms in Sing Buri and Ang Thong Provinces, Central Thailand
Sonthaya Tiaisirisup, Chulalongkorn University, Thailand

PS01.15 Pharmacological Characterization of a Homomeric Nicotinic Acetylcholine Receptor Formed by Ancylostoma Caninum ACR-16
Shivani Choudhary, Iowa State University, United States

PS01.16 Anthelmintic Effect of Supplementation With Mimosa Caesalpinifolia and Feeding Behavior of Goats Grazing in Tropical Deciduous Forest
Livio Costa-junior, Federal University Of Maranhão, Brazil

PS01.17 The Use of Deep Amplicon ITS-2 rDNA Nemabiome Sequencing to Investigate Anthelmintic Resistance in Ovine Gastro-Intestinal Parasites
Camila Queiroz, University Of Calgary, Canada

PS01.18 Exploring Thermosensory Behaviours and Pathways in Filarial Nematode Parasites
Zachary Heimark, University Of Wisconsin-Madison, United States

PS01.19 Study of the Role of P-Glycoprotein-2 of the Parasitic Nematode Heligmosomoides Polygyrus in the Cholesterol Uptake
Mohamed Issouf, INRA, UR1282 Infectiologie Animale et Santé Publique, Centre de Recherches de Tours, France

PS01.20 The Giant African Snail Achatina Fulica as Carrier of Nematodes of Medical and Veterinary Importance in the Rio De Janeiro State, Brazil
Norma Labarthe, Fundação Oswaldo Cruz, Brazil

PS01.21 Expression of Four Nicotinic Acetylcholine Receptor Subunits in Ascaris Suum Intestine and Muscle Cells
Mark McHugh, Iowa State University, United States
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<tr>
<td>PS01.22 Anthelmintic Effectiveness of Citronellal and Citronellol on Haemonchus Contortus Evaluated In Vitro Larval Development Test <strong>Poliana Pacheco</strong>, University of São Paulo, Brazil</td>
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<td>PS01.23 In Vitro Anthelmintic Effect of Four Extracts Obtained From Caesalpinia Coriaria Foliage Against an Haemonchus Contortus Isolate. 1. Egg Hatch Test <strong>Leyla Rios de Alvarez</strong>, AGROSAVIA, Columbia</td>
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<td>PS01.24 In Vitro Anthelmintic Effect Of Four Extracts Obtained From Caesalpinia Coriaria Foliage Against An Haemonchus Contortus Isolate. 2. Larvae Exsheathment Inhibition Test <strong>Leyla Rios de Alvarez</strong>, AGROSAVIA, Columbia</td>
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<td>PS01.25 Anthelmintic Activity of a Synthetic Peptide Bioinspired in the Protein Rc-2S-Alb Towards Haemonchus Contortus <strong>Carolina R. Silva</strong>, Laboratory of Parasite Control, Department of Pathology, Center for Biological and Health Sciences, Federal University of Maranhão, Brazil</td>
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<tr>
<td>PS01.26 Assessment of Biophysical Properties of Haemonchus Contortus From Different Life Cycle Stages With Atomic Force Microscopy <strong>Carolina R. Silva</strong>, Laboratory of Parasite Control, Department of Pathology, Center for Biological and Health Sciences, Federal University of Maranhão, Brazil</td>
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<td>PS01.27 Anthelmintic Effect of Extracts From Petiveria Alliacea and Diospyros Anisandra on Haemonchus Placei Larval Development and Egg Hatching <strong>Roger Iván Rodríguez Vivas</strong>, Universidad Autónoma de México, México</td>
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<td>PS01.28 Anthelmintic-like Activity of Four Polyphenolic Combinations and Their Interactions Against Adult Worms Cooperia Punctata <strong>Vanessa Chala</strong>, Virbac R&amp;D, United States</td>
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<tr>
<td>PS01.29 Prevalence of Gastrointestinal Parasites and the Effective Control Trials in Some Dairy Farms in Bahrain <strong>Abdalla Fadlalia Azrug Ahmed</strong>, National Veterinary Laboratory, Animal Health and Control Directorate, Agriculture and Marine Resources Affairs, Bahrain</td>
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<td>PS01.30 Clinical Efficacy Of Exzolt® (1% Fluralaner Aqueous Solution) In The Treatment Of Mite Infestations Of Flocks In Tropical Countries <strong>Anja Heckeroth</strong>, MSD Animal Health (Phils) Inc, Philippines</td>
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<tr>
<td>PS01.31 Evaluation of DynaTrap Flylight (DT-3009) Plug-In Units to Trap Indoor House Flies and Stable Flies <strong>Jerome Hogsette</strong>, USDA/ARS, United States</td>
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<tr>
<td>PS01.32 Flight Time and Distance Comparison of Field Collected and Colony Reared Horn Fly and Face Fly <strong>Wes Watson</strong>, Department of Entomology and Plant Pathology, NCSU, United States</td>
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<tr>
<td>PS01.33 First Detection and Molecular Identification of Neospora Caninum From Naturally Infected Cattle, Sheep and Goats in North Africa <strong>Yosra Amdouni</strong>, Laboratoire de Parasitologie, Univ. Manouba, Institution de la Recherche et de l’Enseignement Supérieur Agricoles, École Nationale de Médecine Vétérinaire de Sidi Thabet, Tunisia</td>
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<td>PS01.34 A Pilot Study to Determine the Efficacy of a Metronidazole Suspension on the Reduction of Cyst and Trophozoite Counts in Dogs Infested With Giardia <strong>Vanessa Chala</strong>, Virbac R&amp;D, United States</td>
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Poster Session 1
Monday, July 8, 2019

PS01.35 Approaching to Development of Transmission Blocking Vaccine Based on Developmental Stages of Babesia Gibsoni
Seung-Hun Lee, National Research Center For Protozoan Diseases, Obihiro University of Agriculture and Veterinary Medicine, Japan

PS01.36 Establishment of a Stable Transfection System for Genetic Manipulation of Babesia Gibsoni
Mingming Liu, Obihiro University Of Agriculture And Veterinary Medicine, Japan

PS01.37 Optimized Excystation Protocol for Ruminant Eimeria Spp. Sporulated Oocysts (Apicomplexa, Coccidia)
Sara Lopez Osorio, Universidad De Antioquia - Justus Liebig University, Colombia

PS01.38 Molecular Characterization of Cryptosporidium in Calves From Rural Settlements in the Northwest Region of the State of São Paulo, Brazil
Katia Denise Saraiva Bresciani, Faculdade de Medicina Veterinária de Araçatuba, FMVA/UNESP, Brazil

PS01.39 Feline Muscular Sarcocystiasis in a Cat (Felis Catus): Is This Parasite Heteroxenous, Homo-heteroxenous, or Facultatively Heteroxenous?
Emily Brinker, Department of Pathobiology, College of Veterinary Medicine, Auburn University, United States

PS01.40 Targeted Overexpression of Cyclic AMP-Dependent Protein Kinase Subunit in Toxoplasma Gondii Promotes Replication and Virulence in Host Cells
Aifang Du, Zhejiang University, China

PS01.41 Kloosiella Equi: A Cause of Renal Disease in Horses?
Elizabeth Zeldenrust, Department of Pathobiology, Ontario Veterinary College, University of Guelph, Canada

PS01.42 The Bacterial Microbiome of Rhipicephalus Sanguineus Ticks in the Mnisi Community, South Africa

Rebecca Ackermann, Vectors and Vector-borne Diseases Research Programme, Department of Veterinary Tropical Diseases, Faculty of Veterinary Science, University of Pretoria, South Africa

PS01.43 Efficacy of a Single Spot-on Administration of Fipronil and Permethrin Against Haemaphysalis longicornis in Dogs
Wilfried Lebon, Clinvet, South Africa

PS01.44 Simulation Model of Host-Transferring Adult Males Ticks (Dermacentor Variabilis) (Acari: Ixodidae) in the Transmission of Equine Piroplasmosis (Theileria Equi)
Taylor Donaldson, Texas AgriLife, Texas A&M University - Dept. Entomology, United States

PS01.45 An Insight Into Genetic Diversity of Ticks of Bovines Across Different Agro-Ecological Zones of Pakistan
Abdul Ghafar, Department of Veterinary Biosciences, Melbourne Veterinary School, University of Melbourne, Australia

PS01.46 Evaluation of Four Drug Application Strategies for Rhipicephalus Microplus Control in Crossbred Naturally Parasitized Cattle in Água Clara Municipality, MS, Brazil
Willian Maciel, Pós-Graduação em Ciência Animal, Faculdade de Medicina Veterinária, UFMS - Univ. Federal Mato Grosso do Sul, Brazil

PS01.47 Molecular Surveillance of Tick-Borne Diseases in Dogs, 2017-2018
Jinhyeong Noh, Parasitic and Insect Disease Laboratory, Animal and Plant Quarantine Agency, Republic of Korea

PS01.48 Mortality Time of Rhipicephalus Microplus Larvae Immersed in Binary Mixtures of Essential Oils
Cecilia José Veríssimo, State University of Maringá, Brazil
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**PS01.49** Efficacy of Oral Formulation of Sarolaner (Simparica™) Against Naturally Infestation Brown Dog Ticks in Dogs Presented As Veterinary Patients in Thailand  
**Piyanan Taweethavonsawat**, Chulalongkorn University, Thailand

**PS01.50** Molecular Characterization of Fasciola Hepatica From Indigenous Animals in Cajamarca, Peru in Comparison With That From Livestock  
**Madoka Ichikawa-Seki**, Laboratory of Veterinary Parasitology, Iwate University, Japan

**PS01.51** Controlled Efficacy Test of Triclabendazole Against Fasciola Hepatica Derived From Human Infections  
**Pedro Ortiz**, Laboratorio de Immunología, Facultad de Ciencias Veterinarias, Universidad Nacional de Cajamarca, Peru

**PS01.52** Seasonal Re-emergence of Fatal Acute Immature Paramphsitomosis in Goats After Flood - A Longitudinal Study in Tamil Nadu, India  
**Soundararajan Chinnaiyan**, Tamilnadu Veterinary And Animal Sciences University, India

**PS01.53** Transcriptional Activity as a Proxy for Eimeria Spp. Oocyst Viability: The Key to Optimizing Cocidiosis Vaccine Performance?  
**John R. Barta**, University of Guelph, Canada

**PS01.54** Efficacy of Oral Afoxolaner (NexGard™) and Afoxolaner Plus Milbemycin (NexGard Spectra™) Against Rhipicephalus Sanguineus and Ctenocephalides Sp. In Naturally Infested Dogs in Brazil  
**Andre Cutolo**, Boehringer Ingelheim, Brazil

**PS01.55** Efficacy of Three Avermectins in EPRINEX®, IVOMEC® F and DUOTIN® Formulations Against Dermatobia Hominis Larvae in Cattle Naturally Infested in Brazil  
**Andre Cutolo**, Boehringer Ingelheim, Brazil

**PS01.56** In Vitro Anthelmintic Activity of Hymenodictyon pachyanta Stem Bark Extract and Fractions Against Haemonchus contortus  
**Olorunfemi Jegede**, University Of Abuja, Nigeria, Nigeria

**PS01.57** Anthelmintic Activity of Icacina Trichanta Extract and Fractions Against Haemonchus Contortus  
**Monday Michael Onakpa**, Department of Pharmacology and Toxicology, Faculty of Veterinary Medicine, Nigeria

**PS01.58** Dose Determination Study of Entomopathogenic Funghi for the Environmental Control of Amblyomma Ticks  
**Paulo Henrique Selbmann Sampaio**, Plant Protection and Animal Health Advanced Research Center, Biological Institute, Brazil

**PS01.59** Foldscope as a Diagnostic Tool for Identification of Canine Parasites with Emphasis on Zoonotic Parasites  
**Mandeep Singh Bal**, Guru Angad Dev Veterinary & Animal Sciences University, India

**PS01.60** Efficacy of the Rapid In-Clinic Speed™ Giardia Test for the Detection of Giardia Duodenalis in Dog Faeces Compared to ELISA and Coproscopy  
**Vanessa Chala**, Virbac, France

**PS01.61** The AAVP Educators Meeting: Past, Present, and Future  
**Dwight Bowman**, CVM Cornell University, United States

**Rosina C. Krecek**, Texas A and M University, United States
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**PS01.63** Development of Veterinary Students’ Knowledge, Attitudes, and Practices Towards Dirofilaria Immitis in St. Kitts  
Mary Mauldin Pereira, Ross University School of Veterinary Medicine, St. Kitts

**PS01.64** Serological Evidence of Canine Arthropod-Borne Infections in an Ecotone Area of a Natural Reserve at the Pantanal, Brazil  
Bruno Alberigi, Universidade Federal Rural do Rio de Janeiro, Brazil

**PS01.65** Distribution and Dynamics of Canine Babesiosis in France: Results of a Questionnaire Based Survey  
Patrick Bourdeau, Unit -DPM Veterinary School of Nantes- Oniris, France

**PS01.66** Asymptomatic Carrier Status and Seroprevalence of Leptospira spp. in Unvaccinated Canines Presented for Elective Sterilization to the St. George’s University, School of Veterinary Medicine Junior Surgery and Anesthesia Lab  
Rebecca Howell, St. George's University, Grenada

**PS01.67** Epidemiological Survey of Eimeria Species in Naturally Infected Calves Throughout Colombia  
Sara Lopez Osorio, CIBAV Research Group, University of Antioquia Colombia  
PS01.68 A Survey of Gastrointestinal Helminths and Coccidia in Llamas and Alpacas Raised in France  
Veronica Risco-Castillo, Ecole Nationale Vétérinaire d’Alfort (EnvA), France

**PS01.68** Epidemiological Survey of Eimeria Species in Naturally Infected Calves Throughout Colombia  
Sara Lopez, Institute for Parasitology, Justus Liebig University, Germany

**PS01.69** Regional, Biological, and Exposure Risk Factors That Drive Hunting Dog Seropositivity to Tick-Borne Co-infections  
Breanna Scroza, University of Iowa, United States

**PS01.70** Oxifendazole Effect on Gene Expression of P-glycoproteins in Two Haemonchus contortus Isolates Selected for Resistance Against Ivermectin and Oxifendazole  
Jomar Patricio Monteiro, Embrapa Caprinos e Ovinos, Brazil

**PS01.71** Ugt Genes Have Redundant Functions in Modulating Benzimidazole Sensitivity in the Nematode Caenorhabditis Elegans  
John Gilleard, Cummings School of Medicine, University of Calgary, Canada

**PS01.72** Haemonchus Contortus Infection Modulates Lamb Ruminal Microbiome Composition and Function  
Patricia Correa, Centre for Nuclear Energy in Agriculture, University of São Paulo, Brazil

**PS01.73** Sub-Lethal Effects of Moxidectin on the Dung Beetle Onthophagus Landolti Harold (Coleoptera: Scarabaeinae)  
Roger Ivan Rodriguez-Vivas, CCBA Universidad Autonoma De Yucatan, Mexico

**PS01.74** Effect of Stylosanthes Species on Parasites of Cattle and Sheep  
Luciana Katiki, Institute of Animal Science (IZ/APTA), Brazil

**PS01.75** Distribution Patterns of Sodium Channel Mutations Associated With Pyrethroid Resistance and RDLMutations Associated With Fipronil inRhipicephalus Microplus Populations From Uruguay and Rio Grande Do Sul, Brazil  
Eleonor Castro-Janer, Udelar-School of Veterinary, Uruguay

**PS01.76** Benzimidazole Resistance Survey in Gastrointestinal Nematodes of Dairy and Beef Cattle in Western France Using Egg Hatch Assay  
Christophe Chartier, BIOEPAR, INRA, ONIRIS, France
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PS01.77 Selective Sweep and Phylogenetic Models for the Emergence and Spread of Pyrimethamine Resistance Mutations in Plasmodium Vivax
Umer Chaudhry, University Of Edinburgh, United Kingdom

PS01.78 Transcriptomic Analysis of ABC-Transporters (P-GP, MRP and HAF) in Haemonchus Contortus Isolates With Different Susceptibility to IVM
Adrián Lifschitz, Laboratorio de Farmacología, Centro de InvestigaciónVeterinaria Tandil (CIVETAN)
UNCPBA-CICPBA-CONICET, Campus Universitario, Argentina

PS01.79 Sheep, Strongyles and Sequencing: Investigating Ivermectin Resistance in UK Field Populations
Jennifer McIntyre, University of Glasgow, United Kingdom

PS01.80 Treatment of Canine and Feline Gastrointestinal and Respiratory Helminths Using a Combination of Milbemycin Oxime and Praziquantel (Milpro Tablets, Virbac) in Greece
Vanessa Chala, Virbac, France

PS01.81 Acaricidal Activity of Plant-Derived Essential Oil Components Against Psoroptes Ovis In Vitro and In Vivo
Zhenzhen Chen, Laboratory Of Parasitology, Faculty Of Veterinary Medicine, Ghent University, Belgium

PS01.82 Evaluation of Levamisole Pharmacokinetics and Milk Excretion in Dairy Goats
Carlos Lanusse, Laboratorio de Farmacología, Centro de Investigación Veterinaria de Tandil (CIVETAN), UNCPBA-CICPBA-CONICET, Facultad de Ciencias Veterinarias, UNCPBA, Argentina

PS01.83 Uptake of Ivermectin from Growing Substrate to Plant Species
Adrián Lifschitz, Laboratorio de Farmacología, Centro de InvestigaciónVeterinaria Tandil (CIVETAN)
UNCPBA-CICPBA-CONICET, Campus Universitario, Argentina

PS01.84 The Efficacy of a Proprietary Formulation of Imidacloprid 10% + Moxidectin 1% (Advantage Multi®, Advocate®) Spot-On for the Treatment Against Microfilariae of Brugia Pahangi in Naturally Infected Cats
Roland Schaper, Bayer Animal Health GmbH, Germany

PS01.85 Anthelmintic Activity of a Herbal Complex Against Heamonchus Contortus
Muhammad Arfan Zaman, UVAS, Pakistan

PS01.86 Morphological and Molecular Characterization of Feline Filarid Nematode and Its Zoonotic Implication
Ananda Konanur Javaregowda, Department of Veterinary Parasitology, Karnataka Veterinary, Animal And Fisheries Sciences University (b), Veterinary C, India
### Poster Session 2
**Tuesday, July 9, 2019**

Exhibit Hall, Hall A, Level 1 of Monona Terrace Community and Convention Center

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Authors must be standing next to their posters during these times for questions.

### Poster Presentation Track and Theme

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- Cattle
- Equine
- Laboratory
- Other
- Sheep

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- Mosquitoes
- Nematode
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- Education
- Epidemiology
- Genetics
- Immunology
- Novel Cases
- Other
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- Resistance
- Treatment
- Zoonoses

### PS02.01 Efficacy of a Topical Formulation of Selamectin Plus Sarolaner (Revolution® Plus) Against Induced Infestations of Amblyomma Americanum on Cats and Prevention of Cytauxzoon Felis Transmission

**Mason Reichard**, Oklahoma State University, United States

### PS02.02 Roles of Flies and Beetles Associated with Animal Agriculture in Salmonella Maintenance and Transmission

**Nancy C. Hinkle**, Dept. of Entomology, University of Georgia, United States

### PS02.03 Use of LongRange® (Boehringer Ingelheim Animal Health) Placei and Nematodirus Helvetianus, Oesophagostomum Radiatum and Trichostrongylus Colubriformis Infections in Cattle

**Martin Liebstein**, Boehringer Ingelheim Animal Health, United States

### PS02.04 Targeted Selective Treatment Against Liver Flukes (Fasciola Hepatica) in Dairy Herds in Sweden

**Adam Novobilsky**, Veterinary Research Institute, Czech Republic

### PS02.05 Trypanosomiasis in Sedentary Cattle at Previously Assumed Trypanosoma-Free Jos Plateau, Nigeria

**Maxwell Opara**, University Of Abuja, Nigeria

### PS02.06 Profitability of Parasiticides for Control of Horn Flies (Diptera: Muscidae) in Stocker Cattle

**Justin Talley**, Oklahoma State University, United States

### PS02.07 Risks with Next Generation Sequencing in the Detection of Strongylosus Vulgaris

**Alice Anlund**, Vidilab Ab, Sweden


**Marie Louise Honoré Jørgensen**, University of Copenhagen, Denmark

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PS02.09 Pilot Study on the Parasites of Feral Horses on Cumberland Island, Georgia, USA
Polly Wedlon, Ross University School Of Veterinary Medicine, Saint Kitts and Nevis

PS02.10 In Vitro Assays to Evaluate Lethal or Repulsive Activity of Chemical Products Against Sarcoptes Scabiei
Jacques Guillot, Faculty of Veterinary Medicine, China

PS02.11 Anthelmintic Resistance in Gastrointestinal Nematodes of French Angora Goat Flocks
Christophe Chartier, BIOEPAR, INRA, Oniris, France

PS02.12 Use of a PCR/Sequencing Technique for Identifying Haemonchus Species and Genotypes From Trichostrongyle Egg DNA Isolated From American Plains Bison (Bison Bison Bison) Fecal Samples
John McKenzie, South Dakota State University, United States

PS02.14 Effect of Trichostrongylus Colubriformis Infection and Phosphorus Dietary Levels on Lamb’s Nitrogen Metabolism
Helder Louvandini, University of São Paulo, Brazil

PS02.15 Epidemiological and Molecular Updates on Cystic Echinococcosis in Wild Boars From Italy
Vincenzo Veneziano, Department of Veterinary Medicine and Animal Productions, University of Naples Federico II, Italy

PS02.16 Prevalence and Economic Losses of Cystic Echinococcosis in The Gambia
Saidal Ali Bah, Uludag University, Turkey

PS02.17 Molecular Identification and Function Analysis of SUMO and UBC9 Genes of Taenia Pisiformis
Shaohua Zhang, State Key Laboratory of Veterinary Etiological Biology, Lanzhou Veterinary Research Institute, Chinese Academy Of Agricultural Sciences, China

PS02.18 Field Flea Collections Reveal New Host and Distribution Records for Stenoponia Americana (Baker, 1899) and Amphipsylla Washingtonia (Hubbard, 1954) (Siphonaptera: Ctenophthalmidae, Leptopsyllidae) in the United States
Gebbiena Bron, University Of Wisconsin – Madison, United States

PS02.19 Do Dirofilaria Immitis Infections in Aedes Aegypti Affect Wing Beat Frequencies?
Doyeon Park, School of Forestry and Wildlife Sciences, Auburn University, United States

PS02.20 Correlation of Salivary Antibody to Carbohydrate Larval Antigen With Gastrointestinal Nematode Parasitism in Sheep Under Ontario Grazing Conditions
Emma Borkowski, University Of Guelph, Canada

PS02.21 Developmental Activation of Infective Strongyloides Stercoralis Larvae After Percutaneous Migration Through an In Vitro Model
Shannon Kitchen, University Of Pennsylvania, United States

PS02.22 Viability of Haemonchus Placei Parasitism in Experimentally Infected Young Goats
Willian Maciel, Universidade Federal de Goiás – UFG, Brazil

PS02.23 Ovicidal Effect of Citronellal and Citronellol in Haemonchus Contortus In Vitro Egg Hatch Test
Poliana Pacheco, University Of São Paulo, Brazil

PS02.25 Encysted Cyathostomin Larval Counts: Mucosal Digestion Revisited
Haley Zynda, University Of Kentucky, United States

PS02.26 Veterinary-Sanitary Evaluation of Mutton With Mixed Invasions
Shermatov Sagynbek, Naryn State University, Kyrgyzstan
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PS02.27 Parasitic Structures Carried by Sarcophagidae Fly in Two Different Biotopes in the Region of Teodoro Sampaio, Sao Paulo, Brazil
Karen Akashi, State University of Maringá, Brazil

PS02.28 Amblyomma Sculptum (Acari, Ixodidae) as a Probable Vector of Dermatobia Hominis (Diptera, Cuterebridae) on a Human Cutaneous Infestation in Brazil
Andre Cutolo, Instituto Adolfo Lutz, Brazil

PS02.29 Diversity of Culicoides Species in New England, NSW, Australia: 28 Years of Data
Biniam Tsegaye Lakew, University Of New England, Australia

PS02.30 New World Screwworm (Cochliomyia Hominivorax) Population Structure Analysis Using Genotyping by Sequencing
Robert Mitchell III, USDA-ARS, United States

PS02.31 First Report of Philornis sp. in a Protected Area in Uruguay
Maria Ernestina Olhagaray Torres, Departamento de Parasitología, Facultad de Veterinaria, Universidad De La República, Uruguay

PS02.32 Seasonal Abundance of Stomoxys Calcitrans and Musca Domestica in the South Region of Uruguay (2018-2019), Preliminary Data
Ana Laura Perez Sarasqueta, Departamento De Parasitología Veterinaria, Facultad De Veterinaria, Universidad De La Republica, Uruguay

PS02.33 Orientation of Stable Fly Larvae
David Taylor, USDA-ARS-AMRU, United States

PS02.34 Distribution and Dynamics of Canine Generalized Leishmaniosis in France: Results of the 4th National Questionnaire Based Survey With Veterinary Clinics
Patrick Bourdeau, Veterinary School Of Nantes-oniris, France

PS02.35 Molecular Detection of Eimeria Species Among Chickens in KwaZulu-Natal Province, South Africa
Abiodun Fatoba, University Of KwaZulu-natal, South Africa

PS02.36 Molecular Characterization of Trypanosoma Evansi in Seventeen Isolates From Five Natural Infected Hosts and In Vitro Cultivation in Thailand
Ketsarin Kamyingkird, Department Of Parasitology, Faculty Of Veterinary Medicine, Kasetsart University, Thailand

PS02.37 3D-Holotomographic Analysis of Respiration of Eimeria Bovis Oocyst Sporogony
Sara Lopez Osorio, Universidad De Antioquia - Justus Liebig University, Colombia

PS02.38 Seroprevalence of Toxoplasma Gondii Infections in Dogs and Cats of Korea, 2017–2018
Jinhyeong Noh, Parasitic and Insect disease laboratory, Animal and Plant Quarantine Agency, Republic of Korea

PS02.39 Validation of Single-Tube Nested Real-Time PCR and Genetic Sequencing for Detection and Characterization of Cryptosporidium Spp. in Birds
Bruna Santana, Universidade Estadual Paulista (unesp), Campus De Araçatuba, Faculdade De Medicina Veterinária, Brazil

PS02.40 Efficacy of a Single Oral Administration of Afoxolaner Alone or in Combination with Milbemycin Oxime Against Ixodes hexagonus in Dogs
Frederic Beugnet, Boehringer-ingelheim, France

PS02.41 Nanocarrier Formulations Against Rhipicephalus (Boophilus) Microplus Larvae
Amanda Figueiredo, Departamento de Medicina Veterinária Preventiva, Universidade Estadual “Júlio de Mesquita Filho” – UNESP, Brazil
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Michelle Ientile, Oklahoma State University, United States

**PS02.43** Candidatus Neoehrlichia Mikurensis in Ixodes Ricinus Ticks in the Czech Republic  
Adam Novobilský, Veterinary Research Institute, Czech Republic

**PS02.44** Mortality Time of Rhipicephalus Microplus Larvae Immersed in Essential Oils  
Cecília José Veríssimo, University of São Paulo, Brazil

**PS02.45** Mortality Time of Rhipicephalus Microplus Larvae Immersed in Different Solvents  
Cecília José Veríssimo, State University of Maringa, Brazil

**PS02.46** Exotic and Disease Vectoring Ticks on White-Tailed Deer in Southern Texas  
Donald Thomas, USDA-ARS, United States

**PS02.47** Efficacy of Different Concentrations of Duddingtonia Flagrans Chlamydospores against Different Levels of Faecal Egg Counts of Cattle Gastrointestinal Nematodes  
Silvina Fernández, Área de Parasitología y Enfermedades Parasitarias, Centro de Investigación Veterinaria de Tandil (CIVETAN) (UNCPBA-CICPBA-CONICET), Facultad de Ciencias Veterinarias, UNCPBA, Argentina

**PS02.48** In Vitro Anthelmintic Activity of Hymenodictyon pachyanta Stem Bark Extract and Fractions Against Haemonchus Contortus  
Olorunfemi Jegede, University Of Abuja, Nigeria

**PS02.49** Humoral Response of Canaria Sheep Vaccinated with a Recombinant Teladorsagia Circumcincta Prototype Vaccine  
Cynthia Machin, Universidad De Las Palmas De Gran Canaria, Spain

**PS02.50** A Predation Test to Evaluate the Efficacy of Macrochelidae Mites as Biological Control Agents for Parasitic Nematode Larvae  
Paulo Henrique Selbmann Sampaio, Animal Health Research Center, Biological Institute, Brazil

**PS02.51** Evaluation of the Fecal Dx* Antigen Test for the Diagnosis of Nematodes with Carnivorous Samples From a Germany Zoo  
Jinming Geng, IDEXX Laboratories, United States

**PS02.52** Comparative Efficiency of the McMaster, Mini-FLOTAC and FAMACHA© Methods for Diagnosing Helminths in Sheep  
Willian Maciel, Universidade Estadual Paulista – UNESP, Brazil

**PS02.53** Association Between Dirofilaria Immittis and Euocleus Aerophilus in Naturally Infected Dogs, in the Northern Outskirts of Buenos Aires and the Tigre Region  
Gabriela Perez Tort, Veterinary Virreyes Hospital, Argentina

**PS02.54** First Clinical Case of Demodex Gatoi in a Cat in Argentina  
Gabriela Perez Tort, Virreyes Veterinary Hospital, Argentina

Investigacion Agropecuaria, Uruguay
PS02.55 Use of a PCR to Identify the Main Gastrointestinal Nematodes Resistant to Anthelmintics in Cattle Farms, in Uruguay
Celeste Serrano, Instituto Nacional de Investigacion Agropecuaria, Uruguay

PS02.57 Heartworm Microfilaria: Banking the Source for Teaching Diagnostic Techniques
Sidney Long, The Ohio State University, United States

PS02.58 Parasitological Procedures, Skills, and Areas of Knowledge Used by Equine Practitioners in North America
Mary Mauldin Pereira, Ross University School of Veterinary Medicine, St. Kitts and Nevis

PS02.59 Prevalence of Gastrointestinal Parasites of Dogs and Cats in Greater Dublin Area, Ireland
Theo de Waal, University College Dublin, Ireland

PS02.60 A One Health Paradigm: Multiple Bovine Infections in the Human-Wildlife-Livestock Interface of Lambwe Valley, Western Kenya
Shewit Kalayou, International Center Of Insect Physiology And Ecology, Kenya

PS02.61 Retrospective Analysis of Dicrocoelium Dendriticum (Rudolphi, 1819) Looss, 1899 Cases Diagnosed During 2010-19 at the Animal Health Diagnostic Center, New York State, USA
Danielle Maguire, Department of Population Medicine & Diagnostic Sciences, College of Veterinary Medicine, Animal Health Diagnostic Center, Cornell University, United States

PS02.62 Ehrlichia Canis in Dogs of Mexico: Prevalence, Incidence, Co-Infection With Rickettsia Parkeri and Factors Associated
Roger Ivan Rodriguez-Vivas, Campus de Ciencias Biológicas y Agropecuarias, Facultad de Medicina Veterinaria y Zootecnia, Universidad Autonoma de Yucatan, Mexico

PS02.63 Transcriptome Analysis of Haemonchus Contortus Infecting Goats from Breeds with Differing Resistance Levels
Jomar Patricio Monteiro, Embrapa Caprinos e Ovinos, Brazil

PS02.64 Cytokine Expression In Calves Experimentally Infected With Two Theileria Parva Stocks
Kgomotso Sibeko-Matjila, University of Pretoria, South Africa

PS02.65 Toll-Like Receptors 2, 4, and 7, Interferon-Gamma, Interleukin 10 and Programmed Death Ligand 1 Transcripts in Leishmanin Skin Test Positive Reactions of Ibizan Hound Dogs
Laia Solano-Gallego, Universitat Autonoma de Barcelona, Spain

PS02.66 Human Macrophages Cytokine Response to Dirofilaria Repens Antigens
Magdalena Elżbieta Wysmolek, Warsaw University of Life Sciences, funded by KNOW (Leading National Research Centre) Scientific Consortium „Healthy Animal - Safe Food”, decision of Ministry of Science and Higher Education No. 05-1/KNOW2/2015, Poland

PS02.67 Phylogeny of a Novel Coccidian Parasite Found in the Prostate of Antechinus Flavipes (Yellow-Footed Antechinus)
John R. Barta, University of Guelph, Canada

PS02.68 The First Determination of Eustrongylides Sp. Larvae in the Gulf of Finland and Ladoga Lake
Nadezhda Ryabova, Saint Petersburg State Academy of Veterinary Medicine, Russian Federation

PS02.69 Alveolar Echinococcosis in a Dog in the Eastern U.S.
Anne Zajac, Virginia-Maryland College of Veterinary Medicine U.S.
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**Jenna Gettings**, University Of Georgia, United States

**PS02.71** Bacterial Communities Associated With the Gut of Female House Flies Collected From Three Environmental Niches in Kansas  
**Dana Nayduch**, USDA-ARS, Arthropod-Borne Animal Diseases Research Unit, United States

**PS02.72** Use of Barbervax: A Commercial Haemonchus Contortus Vaccine, in Alpacas over Two Grazing Seasons  
**Grace VanHoy**, University of Georgia College of Veterinary Medicine, United States

**PS02.73** Impact of Shearing on Ectoparasites in Holstein Cattle  
**Cecília José Veríssimo**, Institute Of Animal Science, Brazil

**PS02.74** Rapid Selection of Multiple-Resistance to Eprinomectin and Benzimidazole in a Dairy Goat Farm  
**Lea Bordes**, UMR INRA/ENV 1225 Ihap, France

**PS02.75** Effect of In Vitro Ruminal Digestion on Solid Formulations of the Nematophagous Fungus Duddingtonia Flagrans  
**Diego Cortes-Rojas**, AGOSAVIA, Columbia

**PS02.76** Ivermectin-Resistant Cooperia Oncophora in Feedlot Cattle from Western Canada  
**Eranga De Seram**, University of Saskatchewan, Canada

**PS02.77** Resistance of Sheep Trichostrongylids Against Moxidectin in Austria  
**Barbara Hinney**, Institute for Parasitology, Vetmeduni Vienna, Austria

**PS02.78** Acaricide Resistance Profile of Rhipicephalus Microplus From Arauca, Colombia  
**Guilherme Klafke**, Instituto de Pesquisas Veterinarias Desiderio Finamor, Eldorado do Sul, Rio Grande do Sul, Brasil

**PS02.79** The Prevalence of Anthelmintic Resistance in Gastrointestinal Nematodes of Beef Cattle in Uruguay  
**America Mederos**, Instituto Nacional De Investigacion Agropecuaria, Uruguay

**PS02.80** Comparative Efficacy of Doramectin 1% and Clopamid 10% + Albendazole 5% in Goats From the City of General Artigas, Canindeyú Department, Paraguay  
**Jorge Miret**, UNICAN, Paraguay

**PS02.81** Pomegranate (Punica Granatum) Aqueous Extract for Control of Gastrointestinal Nematodes in Sheep  
**Antonio Bosco**, Department of Chemical, Biological, Pharmaceutical and Environmental Science, University of Messina, Italy

**PS02.82** Efficacy Evaluation of a Formulation With Ivermectin 1% w/V Plus Clorsulon 10% w/V (Ivomec® F) in Cattle Naturally Infected With Fasciola Hepatica in Brazil  
**Luis Pelissoni**, Boehringer Ingelheim Animal Health Do Brasil Ltda., Brazil

**PS02.83** Comparative Ivermectin Plasma Concentration Profiles After Subcutaneous Administration of Different Long-Acting Formulations to Cattle  
**Evelise Fonseca**, Ceva Saúde Animal Ltda., Brazil

**PS02.84** Effect of Monepantel on Gastrintestinal Nematodes Infection and the Influence on Gestant Sheep  
**Luciana Katiki**, Institute of Animal Science (IZ/APTA), Brazil
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PS02.85 Combination of Bioactive Phytochemicals and Synthetic Anthelmintics: In Vivo and in Vitro Assessment of the Albendazole-Thymol Association
Adrian Lifschitz, Centro de Investigación Veterinaria de Tandil (CIVETAN)(CONICET-CICPBA-UNCBA ), Facultad de Ciencias Veterinarias, Universidad Nacional del Centro, Argentina

PS02.86 Evaluation of the Ethnoveterinary Potential of Picralima Nitida (Apocynaceae) as an Anthelmintic
Terry Nzeakor, University Of Nigeria, Nsukka, Nigeria

PS02.87 Emerging and Reemerging Zoonotic Parasitic Diseases of Companion Animals in India
Arumugam Sangaran, Madras Veterinary College, Tamilnadu Veterinary And Animal Sciences University, India

PS02.88 Plasmodium Knowlesi and Other Malaria Parasites in Long-Tailed Macaques From the Philippines
Balbir Singh, Universiti Malaysia Sarawak, Malaysia

PS02.88 Emerging and Reemerging Zoonotic Parasitic Diseases of Companion Animals in India
Arumugam Sangaran, Madras Veterinary College, Tamilnadu Veterinary And Animal Sciences University, India
Poster Session 3
Wednesday, July 10, 2019

Exhibit Hall, Hall A, Level 1 of Monona Terrace Community and Convention Center

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<td>Poster Display with Authors</td>
<td>Authors must be standing next to their posters during these times for questions.</td>
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Poster Presentation Track and Theme

**Track 1 - Medium**
- Cat
- Cattle
- Diagnostics
- Dog
- Equine
- Sheep

**Track 2 - Parasite**
- Cestode
- Flea
- Mosquitoes
- Nematode
- Other
- Other Insects
- Protozoa
- Tick
- Trematode

**Track 3 - Subject**
- Control
- Diagnosis
- Epidemiology
- Immunology
- Molecular
- Prevention
- Resistance
- Treatment

**Poster Sessions sponsored by:**

- Virbac

**Presentations**

**PS03.01** Treatment of Tritrichomonas Foetus in a Cat Colony With Pre-existing Neurological Disorders
Barbara Hinney, Institute for Parasitology, Vetmeduni Vienna, Austria

**PS03.02** Efficacy of a New 0.5% Eprinomectin, 5% Diflubenzuron-based Pour-On Formulation against Gastro-Intestinal Nematodes in Cattle Population under Field Conditions in Brazil
Vanessa Chala, Universidade Federal Rural do Rio de Janeiro, Brazil

**PS03.03** Toxoplasma Gondii and Besnoitia Besnoiti Infections Differentially Modulate Host Cell Cycle Progression in Primary Endothelial Host Cells
Carlos Hermosilla, Justus Liebig University Giessen, Germany

**PS03.04** Bovine Neutrophil Extracellular Traps Induce Damage of Besnoitia Besnoiti-Infected Host Endothelial Cells but Fail to Affect Total Parasite Proliferation
Carlos Hermosilla, Justus Liebig University Giessen, Germany

**PS03.05** Development of a Natural Host Model for Tritrichomonas Foetus
Katya Martin, Iowa State University, United States

**PS03.06** Strategic Control of Gastrointestinal Nematodes in Beef Cattle in Brazil
Elio Moro, Zoetis Animal Health, United States

**PS03.07** Mini-FLOTAC Automated System
Laura Rinaldi, Department of Veterinary Medicine and Animal Production, University of Naples Federico II, CREMOPAR, Italy

**PS03.08** Palatability and Safety of a Soft Chewable Tablet Containing Ivermectin, Praziquantel and Pyrantel Pamoate in Client-Owned Adult Dogs
Vanessa Chala, Virbac R&D, United States

**PS03.09** Quantitative Proteomics Analysis of Angiostrongylus Vasorum-Induced Alterations in Dog Serum
Lucienne Tritten, Institute of Parasitology, University Of Zurich, Switzerland
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<td>Prevalence of Intestinal Parasites and Heartworm in Northeastern Oklahoma Shelter Dogs</td>
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<td><strong>Kellee Sundstrom</strong>, Department of Veterinary Pathobiology, Oklahoma State University Center for Veterinary Health Sciences, United States</td>
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<td><strong>PS03.11</strong></td>
<td>Surveillance of Parascaris Equorum Infections and the Efficacy of Fenbendazole in Horses Across the United States</td>
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<td><strong>Brian Herrin</strong>, Kansas State University, United States</td>
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<td><strong>Olorunfemi Jegede</strong>, University Of Abuja, Nigeria</td>
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<td>Coproskopical, Antibody-Based and Molecular Survey on Equine Helminth Infections on Horse Farms in Berlin/Brandenburg, Germany</td>
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<td><strong>Georg von Samson Himmelstjerna</strong>, Virbac, France</td>
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<td><strong>PS03.14</strong></td>
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<td><strong>Cristina Guerrero-Molina</strong>, Universidad Nacional Autónoma de México, Mexico</td>
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<td><strong>Robin McAnulty</strong>, Lincoln University, New Zealand</td>
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<td>Anthelmintic Efficacy and Cytotoxicity of Diospyros Whyteana Compounds Derived Using Antifungal Activity</td>
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<td><strong>Bellonah Sakong</strong>, University of South Africa, South Africa</td>
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<td>Efficacy of a Permethrin and Fipronil Combination (Effitix® Spot-On), Against Flea Infestations in Dogs: A Randomized, Controlled Study</td>
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<td><strong>Vanessa Chala</strong>, Virbac, France</td>
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<td>Using Electropetography (EPG) to Surf the Waves of Host Choice in Aedes Aegypti</td>
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<td><strong>Victoria Pickens</strong>, Oklahoma State University, United States</td>
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<td><strong>Doyeon Park</strong>, School of Forestry and Wildlife Sciences, Auburn University, United States</td>
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<td><strong>PS03.21</strong></td>
<td>Mining the Excretory-Secretory System of Filarial Nematodes for New Drug Targets</td>
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<td><strong>Paul Airs</strong>, University Of Wisconsin-Madison, United States</td>
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<td>Effects of Gastrointestinal Nematode Parasitism on Growth and Reproductive Performance in Ewe Lambs in Ontario, Canada</td>
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<td><strong>Emma Borkowski</strong>, University Of Guelph, Canada</td>
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<td>Anthelmintic Efficacy of Nutritionally Balanced Cranberry Vine Pellet Against Strongyle Infection in Dorset Lambs</td>
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<td><strong>Bailey Chalut</strong>, University Of Rhode Island, United States</td>
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<td>Chromosome-Scale Assembly of Haemonchus Contortus, a Model Gastrointestinal Parasite</td>
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<td><strong>Stephen Doyle</strong>, Wellcome Sanger Institute, United Kingdom</td>
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<td>Tissue-Specific Heterologous Expression of Filarial Parasite G Protein-Coupled Receptors (GPCRs) in Caenorhabditis Eleagans.</td>
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<td><strong>Kendra Gallo</strong>, University of Wisconsin-Madison, United States</td>
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**PS03.26** A One Health Approach: Translating Livestock Parasite Research to Scan for Benzimidazole Resistance Mutations in Human Soil Transmitted Helminths
John Gilleard, Faculty of Veterinary Medicine, University Of Calgary, Canada

**PS03.27** Evaluation of Biochemical Assays for the In Vitro Testing of Drug Response in the Canine Heartworm Dirofilaria Immitis Microfilaria
Jeba R J Jesudoss Chelladurai, College Of Veterinary Medicine Iowa State University, United States

**PS03.28** Effects of Alpha-Terpinene, Citronellal, Citronellol and Limoene in Caenorhabditis Elegans Motility Test
Luciana Katiki, Institute of Animal Science (IZ/SAA), Brazil

**PS03.29** New Insights in the Biology of Troglostrongylus Brevior
Martin Knaus, Boehringer Ingelheim Vetmedica GmbH, Kathrinenhof Research Center, Germany

**PS03.30** Development of an Automated Motility Assay Using Infrared Tracking on Exsheathed Third-Stage Larvae of Haemonchus Contortus for New Anthelmintics Discovery
Beatriz Munguia, Laboratory of Pharmacology, Faculty of Chemistry, Universidad De La Republica, Uruguay

**PS03.31** Can We Combat Anthelmintic Resistance in Ruminants?
Smaragda Sotiraki, University of Naples Federico II, Department of Veterinary 23 Medicine and Animal Productions, Italy

**PS03.32** A Putative Cryptic Freeze-resistant Species of Trichinella Discovered in Wolverine
Peter Thompson, USDA, Agricultural Research Service, Animal Parasitic Diseases Laboratory, Beltsville Agricultural Research Center, United States

**PS03.33** The New Rat Lungworms: The Occurrence of Physaloptera Hispidus and a Mastophorus Sp. In Pulmonary Vessels of the Hispid Cotton Rat (Sigmodon Hispidus) From Georgia, U.S.A.
Alec Thompson, Southeastern Cooperative Wildlife Disease Study / University Of Georgia, United States

**PS03.34** Nematode Exsheathment: Heat Shock and Haemonchus Contortus
Tania Wagburn, Agresearch, New Zealand

**PS03.35** Conserved and Divergent Aspects of Chemosensory Signaling in Filarial Parasitic Nematodes
Nic Wheeler, University Of Wisconsin-Madison, United States

**PS03.36** Clinico- Histopathological Observations of Camel Sarcopticosis: A Case Report
Abhilasha Dadhich, Rajasthan University Of Veterinary And Animal Sciences, India

**PS03.37** Metazoan Parasitic Infections for Clarias Gariepinus (Burchell, 1822) in Native and Extralimital Distribution Ranges Within Southern Africa
Marliese Truter, Water Research Group, Unit for Environmental Sciences and Management, North-West University, South Africa

**PS03.38** Thelazia Callipaeda Eyeworm and Its Vector Phortica Variegata: Strategies to Survive the Winter
Arme Thomas, School of Biological Sciences, University Of Leicester, United Kingdom

**PS03.39** Detection of Theileria Orientalis Genotypes and Identification of Potential Vectors in Central Queensland
Kacie Baker, University Of New England, Australia

**PS03.40** Eimeria Spp. And Its Association With Diarrhea in Dairy Calves in Uruguay
Eleonor Castro-Janer, Facultad de Veterinaria, Universidad de la República, Uruguay

**PS03.41** Mitochondrial DNA of Babesia Odocoiel as a Means of Diagnosis for Babesiosis in Cervids
Fiorella Vialard, University of Guelph, Canada
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PS03.42 Metabolic Budget of Ticks in The Field in S.W. England
Saeed Alasmari, University of Bristol, United Kingdom

PS03.43 Repellent Effects of Encapsulated Carvacrol on the Southern Cattle Tick, Rhipicephalus (Boophilus) Microplus (Acari: Ixodidae)
Livio Costa-Junior, Federal University of Maranhão, Brazil

PS03.44 Distribution of Ticks and Molecular Detection of Tick-Borne Diseases From Dogs in the Republic of Korea, 2017–2018
Jinhyeong Noh, Parasitic and Insect disease laboratory, Animal and Plant Quarantine Agency, Republic of Korea

PS03.45 The Use of Computed X-ray Microtomography (microCT) for Non-invasive Imaging of Ixodes Runicus Ticks
Adam Novobilsky, Veterinary Research Institute, Czech Republic

PS03.47 Cross Border Transhumance, a Dissemination Way of Ticks and Tick-Borne Pathogens in West Africa
Achille S. Ouedraogo, Laboratory of Parasitology and Parasitic Diseases, Center for Fundamental and Applied Research for Animal and Health (FARAH), Faculty of Veterinary Medicine, University of Liège, Belgium

PS03.48 Threat of Ticks and Tick Borne Diseases in the Scenario of Changing Climate
Rizwan HM, Discipline of Parasitology, KBCMA College of Veterinary and Animal Sciences, Narowal Sub Campus UVAS Lahore, Pakistan

PS03.49 Development and Evaluation of an Innovative Product Formulated With Essential Oils for Rhipicephalus Microplus Tick Control
Cecília José Veríssimo, Institute of Animal Science, Brazil

PS03.50 Acaricidal Effect by Odors of Eucalyptus Globulus, Corymbia Citriodora, 1,8-Cineole and Citronellial Essential Oils Against Rhipicephalus Microplus
Cecília J Veríssimo, Institute of Animal Science, Brazil

PS03.51 Estimates of Correlations and Repeatability Between Infection Level of Tick Fever and Tick Infestation in Holstein Calves Raised in Paddock
Cecilia J Verissimo, Institute of Animal Science, Brazil

PS03.52 Studies on the Insecticides Against Hard Ticks and Poultry Mites
Hee-jeong Youn, College Of Veterinary Medicine, Seoul National University, South Korea

PS03.53 A High Throughput Deep Amplicon Sequencing Method to Show the Emergence and Spread of Calicophoron Daubneyi in United Kingdom Cattle Herds
Umer Chaudhry, University Of Edinburgh, United Kingdom

PS03.54 Can Fasciola hepatica Metacercariae Survive Within Grass Silage And Retain Viability?
Bethan John, Institute of Infection and Global Health, United Kingdom

PS03.55 Efficacy of Oral Afoxolaner Plus Milbemycin (NexGard Spectra”) on the Reduction of Eggs per Gram (EPG) of Feces of Dogs Naturally Infected With Ancylostoma Sp., Toxocara Sp. And Trichuris Vulpis in Brazil
Andre Cutole, Boehringer Ingelheim Animal Health Do Brasil Ltda., Brazil

PS03.56 In Vitro Hatchability of Eggs of Haemonchus Contortus and Trichostrongylus Colubriformis With Powdered Bark of Acacia Mearnsii
Murilo Antonio Fernandes, University of São Paulo, Centre for Nuclear Energy in Agriculture, Brazil
PS03.57 Effect of Different Faecal Concentrations of Anthelmintics on Myelial Growth of the Biological Control Agent Duddingtonia Flagrans
Silvina Fernández, Área de Parasitología y Enfermedades Parasitarias, Centro de Investigación Veterinaria de Tandil (CIVETAN) (UNCPBA-CICPBA-CONICET), Facultad de Ciencias Veterinarias, UNCPBA, Argentina

PS03.58 Evaluation of Attractiveness and Specificity of New Plastic Blue Screens for Monitoring and Control of Stomoxys Calcitrans Populations
Philippe Jacquet, UMR5175, University Paul-Valéry Montpellier, France

PS03.59 Alternative Treatments for Southern Cattle Fever Tick, Rhipicephalus Microplus (Acari: Ixodidae) Infested White-Tailed Deer Hides
Guilherme Klafke, USDA ARS Cattle Fever Tick Research Laboratory, United States

PS03.60 Dog’s Parasite Control Practices by Veterinarians in Brazil
Tâssia Lopes Vale, Graduate Program in Health Sciences, State University of Maranhão – UFMA, Brazil

PS03.61 A Teladorsagia Circumcincta Recombinant Vaccine Prototype Is able to Protect Lambs of Canaria Hair Breed Sheep
Tara Pérez-Hernández, Universidad De Las Palmas De Gran Canaria, Spain

PS03.62 Anthelmintic Effect of Banana Plantation Residues in Sheep
Paulo Henrique Selbmann Sampaio, Animal Health Research Center, Biological Institute, Brazil

PS03.63 Giardia Spp.: Diagnostic Evaluation of the Immunochromatographic Strip Test, the Parasitological Method of Flotation, the Enzyme Immunoassay and the Polymerase Chain Reaction
Vanessa Chala, Virbac, Global Medical Department, France

PS03.64 Cost-Benefit Analysis of Four Helminth Control Strategies in Naturally Infected Sheep on a Low Technification Property
Willian Maciel, Universidade Estadual Paulista – UNESP, Brazil

PS03.65 A Case of Chorioptic Mange in a Dairy Farm in the Municipality of Descalvado, SP, Brazil
Paulo Henrique Selbmann Sampaio, Animal Health Research Center, Biological Institute, Brazil

PS03.66 A Novel Application of Enzyme-Linked Fluorescent Assay for Detection of Veterinary Toxoplasma Gondii Infections in Multiple Hosts
John Schaefer, University of Tennessee, United States

PS03.67 Seroprevalence, Biogeographic Distribution and Risk Factors for Aelurostrongylus Abstrusus Infections in Cats
Manuela Schnyder, Institute for Parasitology, Centre for Infection Medicine, University of Veterinary Medicine, Germany

PS03.68 Morishitium Polonicum in Black Birds (Turdus Merula) in Baden-Wuerttemberg, Germany
Dieter Barutzki, Institute of Parasitology, Germany

PS03.69 Canine Cardio-Vascular Helminthoses in Dogs in France: Distribution and Dynamics of Heartworm (Dirofilaria Immitis) and French-Heartworm (Angiostrongylus Vasorum) in France: Results From a National Survey With Veterinary Clinics
Patrick Bourdeau, Unit DPM -Veterinary school – Oniris, France

PS03.70 Companion Animal Parasite Council: One Health in Practice
Jenna Gettings, University of Georgia, United States

PS03.71 The Prevalence and Intensity factors of Otodectic Mange In Cat In Two Districts of Pakistan (Lahore and Sheikhupura).
Arfan Zaman, UVAS, Pakistan
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**PS03.72** A Rapid, Parasite-Dependent Cellular Response to Dirofilaria Immitis in the Jird (Meriones Unguiculatus)
*Christopher Evans, University Of Georgia, United States*

**PS03.73** Diving Deeper Into Fecal Counts: Exploring New Technologies to Identify and Quantify Eimeria in Mixed-Species Samples
*John Barta, University of Guelph, Canada*

**PS03.74** MarkerDB: A Pipeline to Build Bespoke Databases of Marker Gene Sequences for Identifying Taxa in Samples
*John Gilleard, Faculty of Veterinary Medicine, University Of Calgary, Canada*

**PS03.75** Evaluation of the Preventive Efficacy of a Permethrin-Fipronil Based Spot-On (Effitix® Spot-On) for Canine Leishmanios isis and Dirofilariosis in a Highly Endemic Area in Greece: An Open Field Trial
*Vanessa Chala, Virbac, France*

**PS03.76** Evolution of the Efficacy of a Combined Moxidectin-Levamisole Treatment Against Resistant Gastrointestinal Nematodes in Lambs
*Luis Alvarez, Instituto Nacional de Tecnología Agropecuaria (INTA), Argentina*

**PS03.77** Polymorphisms in the Acetylcholinesterase 3 Gene in Cattle Fever Ticks (Rhipicephalus Micropsus), Isolates From Uruguay and Southern Brazil
*Eleonor Castro-Janer, Udelar-School of Veterinary, Uruguay*

**PS03.78** Anthelmintic Resistance and Common Worm Control Practices in Sheep Farms in Belgium
*Edwin Claerebout, Ghent University, Belgium*

**PS03.79** Storage Stability Study of Solid Based Formulations of the Nematophagous Fungus Duddingtonia Flagrans for Biological Control of Gastrointestinal Nematodes in Sheep
*Diego Cortes-Rojas, Agrosavia, Colombia*

**PS03.80** Canine Heartworm Treatment Using a Combination of ProHeart® SR 12 (Injectable Moxidectin) and Oral Doxycycline
*Bruno Alberigi, Universidade Federal Rural Do Rio De Janeiro, Brazil*

**PS03.81** Combined Use of Ivermectin and Levamisole to Control Resistant Nematodes in Cattle: Assessment of Pharmacokinetic Interactions and Therapeutic Responses
*Candelia Canton, Laboratorio de Farmacología, Centro de Investigación Veterinaria de Tandil (CIVETAN), UNCPBA-CONICET-CICPBA, Argentina*

**PS03.82** Impact Evaluation of a Regular Shampoo Use, on the Efficacy of a Permethrin and Fipronil Combination (Effitix® Spot-On), Against Flea Infestations in Dogs: A Randomized, Controlled Study
*Vanessa Chala, Virbac, France*

**PS03.83** Efficacy of Topical 0.5% w/V Eprinomectin (EPRINEX®) Administered at 1 Mg per Kg Body Weight Against Larval Oestrus Ovis Infestation in Sheep and Goats
*Steffen Rehbein, Boehringer Ingelheim Vetmedica GmbH, Kathrinenhof Research Center, Germany*

**PS03.84** Can Combination Deworming Conquer Double-Drug Resistance? Moxidectin and Oxibendazole Combination Treatments Against Double-Drug Resistant Cyathostomins Naïve to Macroyclic Lactones
*Jessica Scare, University of Kentucky, Gluck Equine Research Center, United States*

**PS03.85** In Vitro Characterization of the Effects of Polyhexamethylene Biguanide (PHMB) Alone or in Complex With TLR4 or TLR9 Agonists in Leishmania Infantum Infected Canine Macrophages
*Lala Solano-Gallego, Dept. Medicina I Cirurgia Animals, Universitat Autonoma de Barcelona, Spain*
SECTION 4

EXHIBIT INFORMATION
Exhibition Information

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The Exhibit Hall is located in Hall A on Level 1 of the Monona Terrace Community and Convention Center. Poster Sessions, Coffee Breaks and Lunches will be held in the Exhibit Hall.

EXHIBITOR MOVE-IN TIME

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EXHIBITOR HALL OPEN HOURS

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Tuesday, July 9 10:00 – 16:30
Wednesday, July 10 10:00 – 16:30
Thursday, July 11 10:00 – 16:00

EXHIBITOR TAKE-DOWN TIME

Thursday, July 11 16:30 - 20:00

EXHIBITOR FLOOR PLAN

[Diagram showing the layout of the exhibit hall with various sections and labels for different areas such as Poster Section, Food & Beverage, Delegate Lounge & Charging Stations, and Main Entrance.]
Bayer Animal Health GmbH
animalhealth.bayer.com
Based in Germany and a business unit of Bayer AG (DB:BAYN), Bayer Animal Health is the #5 animal health company globally with revenues of €1.6 billion in FY2017. It offers a broad range of products, with a particularly strong position in the field of parasiticides for companion animals, and parasiticides and anti-infectives for the treatment of infectious diseases in livestock. Bayer Animal Health sells products in over 120 countries and has over 3,500 employees worldwide.

Boehringer Ingelheim Animal Health Business Unit
www.boehringer-ingelheim.com/animal-health/animal-health
Boehringer Ingelheim Animal Health Business Unit is the second largest animal health business in the world. BI-AH is a leader in antiparasitic drugs for companion animals, ruminants and horses. For companion animals, BI-AH is the maker of Frontline® Plus/Frontline Combo®, Heartgard® Plus, Frontline Tri-Act®, Broadline®, NexGard®, and NexGard Spectra®. For ruminants, well-known brands are Ivomec®, Eprinex® and Longrange®, for horses Eqvalan® and Eqvalan Duo®.

Clinglobal Limited
www.clinvet.com
Clingvet is a contract research organisation (CRO) established in 1999 and specializes in conducting laboratory and field-based clinical trials to evaluate the safety, metabolism and efficacy of veterinary health products. A group of affiliated companies enables Clingvet to provide a wide range of services in support of laboratory and clinical trials performed on veterinary health products. With a wealth of experience, Clingvet has for many years been able to support leading veterinary health pharmaceutical in ground-breaking research and development programs. Conducting pivotal trials required for the registration of health products worldwide also forms part of Clingvet’s portfolio.

Elanco Animal Health
elanco.com
Elanco (NYSE: ELAN) is a global animal health company that develops products and knowledge services to prevent and treat disease in food animals and pets in more than 90 countries. At Elanco, we’re driven by our vision of food and companionship enriching life – all to advance the health of animals, people and the planet.

ESCCAP
www.esccap.org
ESCCAP is a free and independent parasite control resource for veterinary professionals. Its primary function is to develop free best-practice guidelines for the treatment and control of parasites in pet animals. Its aim is to protect the health of pets, enhance the safety of the public and preserve the human–animal bond.
Exhibitor Biographies

European Veterinary Parasitology College

eurovetpar.org

The European Veterinary Parasitology College (EVPC) was established in 2003. EVPC operates under the umbrella of the European Board of Veterinary Specialisation (EBVS), which is the official organization for all the veterinary specialties within Europe.

The mission of the European Veterinary Parasitology College is to advance the field of veterinary parasitology and to promote a high standard of training of veterinary parasitologists, through the establishment of standards for training and examination required to obtain the qualification as a specialist in veterinary parasitology in Europe, the recognition of qualified specialists by certification and the development of continuing education programs.

FECPAK®

www.fecpak.com

FECPAK® World-leading particle flotation and imaging technology, FECPAK® revolutionises disease management in livestock. FECPAK® modernises traditional microscope-based parasite testing with a smart, image-based diagnostic platform. Scientifically validated to conduct faecal egg count (FEC) tests on-farm, in-lab or in-store, FECPAK® improves animal health and performance and makes FEC testing easier and faster.

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Merck Animal Health

merck-animal-health.com

As a global healthcare leader, Merck works to help the world be well. Merck Animal Health, known as MSD Animal Health outside the United States and Canada, is the global animal health business unit of Merck.

National Centre for Veterinary Parasitology

www.ncvetp.org

The National Center for Veterinary Parasitology is a nonprofit organization whose mission is to further the discipline by bringing together partners from academia and industry to address emerging issues. NCVP seeks to serve the veterinary profession by developing future leaders in veterinary parasitology and by supporting diagnostic and consulting services worldwide.
Tropical Council for Companion Animal Parasites (TroCCAP)
troccap.com
Tropical Council for Companion Animal Parasites is a not-for-profit public company whose mission is to independently inform, guide and make best-practice recommendations to veterinarians and allied health professionals for the diagnosis, treatment and control of companion animal parasites in the tropics and sub-tropics, with the aim of protecting animal and human health.

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Associate Manager

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