

American Association of Veterinary Parasitologists
68th Annual Meeting, June 10th-13th 2023, Lexington, Kentucky, USA

CONFERENCE PROGRAM	
Saturday, June 10, 2023	
7.00-12.30	AAVP Executive Committee Meeting -- Room: Bluegrass Room <i>All AAVP officers and committee chairs please plan to attend; Breakfast provided 7.00-8.00</i>
12.30-13.45	AAVP Student member Meet and Greet - Lunch provided (sponsored by AAVP) Room: Magnolia
12.00-17.00	CONFERENCE REGISTRATION -- By the escalator
13.45-14.00	Learning the Meeting Mobile App with Ashley Steuer, <i>Electronic Media Committee Chair</i> Room: Ballroom B, C & D
14.00-16.15	PLENARY SESSION: Building for the Future Room: Ballroom B, C & D
14.00-14.15	Opening remarks AAVP President: Antoinette Marsh AAVP President-Elect and Program Chair: Jennifer Ketzis
14.15-16.15	PLENARY SESSION 1. Roundworms in a changing environment Dave Bartley (45 mins) <i>Moredun Research Institute</i> 2. One Health through the molecular biology lens Lucienne Tritten (45 mins) <i>Swiss Tropical and Public Health Institute</i> 3. WAAVP guidelines for diagnosing anthelmintic resistance using the fecal egg count reduction test Ray Kaplan (15 mins) <i>St. George's University</i> 4. Changing the paradigm: GI helminth efficacy evaluation through non-terminal trials Dwight Bowman (15 mins) <i>Cornell University</i>
16.15-16.45	Coffee Break (Sponsored by AAVP) Ballroom Lobby
16.45-18.00	AAVP AWARDS Room: Ballroom B, C & D
16.45-17.15	2023 AAVP-Merck Animal Health Outstanding Graduate Student Moderator: Shelly Michalski Emerging parasitic infections detected in dogs and brown dog tick in the United States Awarded to Megan Lineberry <i>Oklahoma State University</i>
17.15-18.00	2023 AAVP-Boehringer-Ingelheim Distinguished Veterinary Parasitologist Moderator: Doug Carithers Anthelmintic resistance molecular diagnostics, epidemiology and management: a journey back to move forward Awarded to John Gilleard <i>University of Calgary</i>
18.00-18.15	Stretch Break (no refreshments)
18.15-19.00	Elanco Symposium Room: Ballroom B, C & D The Evolution of the "Tampa Flea Study" Brian Herrin, <i>Kansas State University</i>
19.15-21.15	Elanco Opening Night Social Room: Magnolia

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Sunday, June 11, 2023		
7.00-8.00	AAVP Committee Meetings (except the DEI Committee) (Light breakfast for those volunteering for/on committees – Sponsored by AAVP) Breakfast set out from 7:00-7:30 in the Magnolia Room Room: Magnolia	
8.15-11.45	CONCURRENT SCIENTIFIC SESSIONS	
8.15-9:45	Session 1: Companion Animal 1 Diagnosis & Control Room: Ballroom B, C & D Moderators: Heather Walden & Sarah Myers	Session 2: Large Animal 1 Molecular Room: Ballroom A Moderators: Tim Geary & William Johnson
8.15-8.30	5. Addition of <i>Dipylidium caninum</i> coproantigen testing to comprehensive fecal examinations improves identification of dogs with parasitic infections Timothy Wu <i>Cornell University</i>	11. Determining genomic loci selected by benzimidazole drugs in <i>Haemonchus contortus</i> Leonor Sicalo Gianechini <i>University of Georgia</i>
8.30-8.45	6. Parasight™ for Pets: Validation of an automated fecal egg count system and AI algorithm for the rapid identification and quantification of helminth eggs in cat and dog feces Jennifer Cain <i>Parasight System Inc</i>	12. Comparison of 18S rDNA, ITS1 rDNA and COI mtDNA bovine <i>Eimeria</i> metabarcoding Venkateswara Rao Parimisetti <i>University of Calgary</i>
8.45-9.00	7. Screening of vector-borne pathogens using targeted next-generation sequencing in shelter dogs Ian Daniel <i>Texas A&M University</i>	13. Characterization of SnROP9, a rhoptry protein of <i>Sarcocystis neurona</i> Annapoorani Jegatheesan <i>Purdue University</i>
9.00-9.15	8. Evaluation of the Vetscan Imagyst™ system to identify and classify <i>Echinococcus</i> and <i>Uncinaria</i> eggs in canine feces Yoko Nagamori <i>Zoetis Animal Health</i>	14. Transitioning nemabiome metabarcoding to a more flexible and rapid diagnostic approach using ITS1/5.8S/ITS2 rDNA nanopore metabarcoding John Gilleard <i>University of Calgary</i>
9.15-9.30	9. Prevention and long-term outcomes of naturally occurring canine heartworm infection in primary care settings in the US Kennedy Mwacalimba <i>Zoetis Animal Health</i>	15. A transporter from the Major Facilitator Superfamily is involved in diclazuril mode of action in apicomplexan parasites Izabela de Assis Rocha <i>University of Kentucky</i>
9.30-9.45	10. A cross-sectional analysis of the knowledge, beliefs, and perceptions of canine heartworm prophylaxis use for prevention of canine heartworm disease Stacie Williams <i>Lincoln Memorial University</i>	16. Deep amplicon sequencing of ranched bison herds revealed benzimidazole resistance in gastrointestinal nematodes in the southern US Kaylee Kipp <i>Texas A&M University</i>
9.45-10.15	Coffee Break (Sponsored by AAVP) Ballroom Lobby	

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Sunday, June 11, 2023 (continued)		
8.15-11.45	CONCURRENT SCIENTIFIC SESSIONS (continued)	
10.15-11:45	Session 3: Companion Animal 2 Treatment Room: Ballroom B, C & D Moderators: Adriano Vatta & Cora Garcia	Session 4: Wildlife 1 Room: Ballroom A Moderators: Guilherme Verocai & Timothy Wu
10.15-10.30	17. Efficacy of Simparica Trio® (sarolaner, moxidectin, pyrantel) for the prevention of <i>Thelazia callipaeda</i> eyeworm infection in dogs living in endemic areas Jessica Rodriguez <i>Zoetis Animal Health</i>	23. Insights into the excretory-secretory proteome of <i>Baylisascaris procyonis</i> larvae Vishnu Manikantan <i>Purdue University</i>
10.30-10.45	18. Assessment of Credelio® CAT (lotilaner) and Credelio® (lotilaner) for control of in-home <i>Ctenocephalides felis</i> infestations Cameron Sutherland <i>Kansas State University</i>	24. Morphological and genetic identification of intestinal parasites within <i>Ondatra zibethicus</i> retrieved from horicon Marsh, Wisconsin Pedro Cachu Cuevas <i>University of Wisconsin</i>
10.45-11.00	19. Comparative blocking efficacy of two ectoparasiticides against the acquisition of <i>Borrelia burgdorferi</i> by <i>Ixodes scapularis</i> ticks in a canine ex vivo model Marie Varloud <i>Ceva Santé Animale</i>	25. Parasites of North American porcupines (<i>Erethizon dorsata</i>) presented to veterinarians at Cornell University from January 2013- April 2023 Araceli Lucio-Forster <i>Cornell University</i>
11.00-11.15	20. 'Tick'ity Split! Comparison of the initial and residual speed of <i>Amblyomma americanum</i> kill of Bravecto® (fluralaner) Chews for Dogs and Simparica Trio® (sarolaner, moxidectin, and pyrantel) Kathryn Reif <i>Kansas State University</i>	26. Virginia opossums (<i>Didelphis virginiana</i>) as intermediate hosts of <i>Sarcocystis neurona</i> Elliott Ziemann <i>Eastern Illinois University</i>
11.15-11.30	21. Comparing sublethal effects of fluralaner on adult <i>Ixodes scapularis</i> and <i>Amblyomma americanum</i> Kathryn Duncan <i>Merck Animal Health</i>	27. Detection of <i>Echinococcus</i> spp. in coyotes in the Midwestern United States Kamilyah Miller <i>Kansas State University</i>
11.30-11.45	22. Comparative efficacy of oral fluralaner or flumethrin/imidacloprid collars for the reduction of premises <i>Rhipicephalus sanguineus</i> infestations Jason Drake <i>Merck Animal Health</i>	28. General survey of internal parasites collected in <i>Rattus rattus</i> and <i>Rattus norvegicus</i> in the Eastern Caribbean Marianne Rivers <i>Ross University School of Veterinary Medicine</i>
11.45-12.15	Stretch Break and collect lunch in Ballroom Lobby for the symposium (Lunch sponsored by IDEXX)	
12.15-13.00	IDEXX Luncheon Symposium 29. What's eating you? Evolving parasitological risks Wade Burton Room: Ballroom B, C & D	
13.00-13.15	Stretch Break (no refreshments)	

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Sunday, June 11, 2023 (continued)		
13.15-16.30	CONCURRENT SCIENTIFIC SESSIONS	
13.15-14.45	Session 5: Large Animal 2 Resistance Room: Ballroom B, C & D Moderators: John Gilleard & Leonor Sicalo Gianechini	Session 6: Wildlife 2 Room: Ballroom A Moderators: Mani Lejune & Elyssa Campbell
13.15-13.30	30. Practical considerations for performing a fecal egg count reduction test (FECRT) following the new WAAVP guidelines Ray Kaplan <i>St. George's University</i>	36. Snake mortalities in Florida, USA associated with <i>Raillietiella orientalis</i> Corinna Hazelrig <i>University of Georgia</i>
13.30-13.45	31. The Migration Trap Assay: A high-throughput screening and diagnostic tool that can detect early resistance in <i>Haemonchus contortus</i> Alexandre Vernudachi <i>Invenesis</i>	37. Investigation of parasite and other pathogens associated with Wild Turkey (<i>Meleagris gallopavo</i>) declines in Tennessee Laura Horton <i>University of Tennessee</i>
13.45-14.00	32. Something to digest: Low levels of precision for mucosal digestion prompt re-evaluation of standard procedure Mackenzie Smith <i>University of Kentucky</i>	38. Allopatric and sympatric sampling of <i>Onchocerca</i> of North American ungulates reveals a richer cryptic diversity and complex host associations Matthew Kulpa <i>Texas A&M University</i>
14.00-14.15	33. A Tapeworm Tale! Multiple anthelmintic treatment failure in equid tapeworms Constance Finnerty <i>University of Kentucky</i>	39. Investigation of the prevalence of the Trichy protozoan parasite, <i>Trichomonas gallinae</i> in hunter-harvested mourning doves (<i>Zenaida macroura</i>) from east Tennessee Morgan Simpson <i>Lincoln Memorial University</i>
14.15-14.30	34. Anthelmintic resistance in <i>Cooperia</i> spp.: why does it continue to increase? Dave Leathwick <i>AgResearch Ltd</i>	40. Serological response, molecular investigation, and histopathologic examination of Mallard ducks (<i>Anas platyrhynchos</i>) following an experimental infection of <i>Toxoplasma gondii</i> tachyzoites Nicole Szafranski <i>University of Tennessee Knoxville</i>
14.30-14.45	35. CarLA-specific IgA in saliva as a measure of parasite-host resistance Richard Shaw <i>AgResearch Ltd</i>	41. <i>Echinococcus multilocularis</i> : Is the European haplotype endemic in the Eastern US? Roger Ramirez-Barrios <i>Virginia Tech</i>
14.45-15:15	Coffee Break (Sponsored by AAVP) Room: Ballroom Lobby	

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Sunday, June 11, 2023 (continued)		
13.15-16.30	CONCURRENT SCIENTIFIC SESSIONS (continued)	
15.15-16.30	Session 7: Education Room: Ballroom B, C & D Moderators: Araceli Lucio-Forster & Stacie Williams	Session 8: Companion Animal 3 Room: Ballroom A Moderators: Pablo Jimenez Castro & Cameron Sutherland
15.15-15.30	42. Building for the future: Putting together a win-win parasitology locum Nicole Szafranski <i>University Tennessee Knoxville</i>	47. <i>Eucoleus boehmi</i> infection in dogs: challenges in treatment and assessment of the olfactory capacity Nathan Mitchell <i>Virginia Tech</i>
15.30-15.45	43. Results of the wellbeing survey for the members of the American Association of Veterinary Parasitologists Kathryn Duncan <i>Merck Animal Health</i>	48. Characterization of ABC transporter genes in <i>Toxocara canis</i> using RNA-Seq Theresa Quintana <i>Kansas State University</i>
15.45-16.00	44. Using parasitology “Create Your Own Adventures” to develop clinical reasoning skills and scripts Jennifer Ketzis <i>Ross University School of Veterinary Medicine</i>	49. TgTKL4 is a novel kinase that plays an important role in <i>Toxoplasma</i> morphology and fitness Raj Gaji <i>Virginia Tech</i>
16.00-16.15	45. More than a white box: Molecular diagnostic parasitology testing incorporated into student training Antoinette Marsh <i>The Ohio State University</i>	50. Cutaneous myiasis by Calliphoridae dipterans in dogs from Chad, Central Africa Rafael Ramos <i>Texas A&M University</i>
16.15-16.30	46. The future is now: Integration of the Vetscan Imagyst™ AI fecal application in an applied parasitology teaching laboratory for Veterinary students Antoinette Marsh <i>The Ohio State University</i>	51. <i>Ixodes scapularis</i> in Oklahoma: geographic distribution, diversity, and disease risk Stefan Struble <i>Oklahoma State University</i>
16:30-16:45	Stretch Break (no refreshments)	
16.45-17.30	Poster Promo Presentations Moderators: Grace VanHoy & Kathryn Duncan Room: Ballroom B, C & D	
17:30-18:30	Poster Session Room: Triple Crown Room	
18.45-19.30	Boehringer Ingelheim Symposium <i>NexGard® COMBO</i> (esafoxolaner, eprinomectin, and praziquantel topical solution): Broad-spectrum parasite protection specially formulated for cats Joseph Prullage and Christopher Johnson Room: Ballroom B, C & D	
19.30-21.30	Boehringer Ingelheim Sunday Night Social Room: Magnolia	

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Monday, June 12, 2023		
7.15-8.15	DEI Committee Meeting with breakfast snack for committee attendees Room: Ballroom A	
8.30-10.00	CONCURRENT SCIENTIFIC SESSIONS	
8.30-10:00	Session 9: Hookworms Room: Ballroom B, C & D Moderators: Antoinette Marsh & Nathan Mitchell	Session 10: Epidemiology Room: Ballroom A Moderators: Ann Donoghue & Kaylee Kipp
8.30-8.45	52. An update on the AAVP hookworm taskforce Jeba Jesudoss <i>Kansas State University</i>	58. The impact of ecogeographical variables on the potential distribution of <i>Ornithodoros</i> spp. in Texas Cora Garcia <i>Texas A&M University</i>
8.45-9.00	53. Benzimidazole resistance and frequency of F167Y mutation in <i>Ancylostoma caninum</i> of Florida shelter dogs Alice Lee <i>University of Florida</i>	59. Multiple lineages of canine <i>Rhipicephalus</i> ; species complex detected in Canada Sarah Myers <i>Oklahoma State University</i>
9.00-9.15	54. Clinical epidemiology of suspected drug resistant canine parasites in the southern USA: an analysis of cases submitted to the UGA Diagnostic Parasitology Laboratory (2020-2022) Cassan Pulaski <i>University of Georgia</i>	60. Microfilaremia in sheltered canines supports their role as a transmission source for mosquito vectors of <i>Dirofilaria immitis</i> in the Cumberland Gap region of Tennessee, Kentucky, and Virginia Charles Faulkner <i>Lincoln Memorial University</i>
9.15-9.30	55. Molecular epidemiology supports clinical evidence that benzimidazole resistance in <i>A. caninum</i> in USA pet dogs is primarily derived from racing greyhounds but also additional sources John Gilleard <i>University of Calgary</i>	61. Prevalence of antibodies to <i>Borrelia burgdorferi</i> , <i>Anaplasma</i> spp., and <i>Ehrlichia</i> spp. and antigen of <i>Dirofilaria immitis</i> , a nationwide serosurvey in healthy cats, USA Rachel Smith <i>Auburn University</i>
9.30-9.45	56. <i>In vitro</i> growth of <i>Ancylostoma caninum</i> supported by heat-inactivated bacteria Shridula Hegde <i>The Ohio State University</i>	62. Metagenomic characterization of parasite communities using a single copy orthologous genetic locus Peter Thompson <i>USDA</i>
9.45-10.00	57. Screening of 30K compounds fruited <i>A. ceylanicum</i> <i>in vivo</i> active hits: What next? Mostafa Elfawal <i>UMASS Chan Medical School</i>	63. Identifying factors associated with the salivary IgA response to gastrointestinal parasitism in Ontario sheep flocks Bradley De Wolf <i>University of Guelph</i>
10.00-10.30	Coffee Break (Sponsored by the AAVP) Ballroom Lobby	
10.30-12.00	AAVP Business Meeting and Awards AAVP Executive Committee, Student Officers, Corporate Sponsor representatives, and Awardees stay for pictures Room: Ballroom B, C & D	
12.00-12.15	Collect boxed lunch in the Ballroom Lobby (Sponsored by AAVP)	

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Monday, June 12, 2023 (continued)		
12.15-13.00	Dignity, Diversity & Veterinary Medicine Lisa Greenhill AAVMC Room: Ballroom B, C & D	
13.00-13.15	Stretch Break (no refreshments)	
13.15-16.45	CONCURRENT SCIENTIFIC SESSIONS	
13.15-14.45	Session 11: Heartworm Room: Ballroom B, C & D Moderators: Cassan Pulaski & Ian Daniel	Session 12: Large Animal 3 Diagnosis, Treatment & Control Room: Ballroom A Moderators: Sheila Mitchell & Nichol Ripley
13.15-13.30	64. Isolate genotyping in mixed ML-resistant and ML-susceptible <i>Dirofilaria immitis</i> infections in dogs following administration of the preventive drug milbemycin oxime Crystal Fricks <i>TRS Labs, Inc.</i>	70. Egg-citing Ascarids: <i>Parascaris</i> spp. egg shedding and data variance with two egg counting techniques in untreated juvenile horses Nichol Ripley <i>University of Kentucky</i>
13.30-13.45	65. Use of athymic nude mice in a mouse model of <i>Dirofilaria immitis</i> and its utilization in drug screening Crystal Fricks <i>TRS Labs, Inc.</i>	71. What's the worm? Characterizing the local equine nemabiome, anthelmintic resistance, and industry practices Toni-Anne Saworski <i>University of Saskatchewan</i>
13.45-14.00	66. Further observations on the inability of infective larvae of <i>Dirofilaria immitis</i> collected from mosquitoes fed on microfilaremic blood of dogs early during treatment with various dosages of doxycycline and a prophylactic dose of ivermectin to complete normal development in dogs John McCall <i>University of Georgia</i>	72. Validation of Vetscan Imagyst™, a diagnostic test utilizing an artificial intelligence deep learning algorithm, for detecting strongyles and <i>Parascaris</i> spp. in equine fecal samples SaraBeth Boggan <i>Zoetis Animal Health</i>
14.00-14.15	67. <i>Aedes aegypti</i> survival is reduced after feeding on <i>Dirofilaria immitis</i> -infected dogs given fluralaner Kathryn Duncan <i>Merck Animal Health</i>	73. Control of parasitism in sheep through vaccination Saleh Umair <i>AgResearch Ltd</i>
14.15-14.30	68. Improved specificity of a probe-based real-time PCR for the detection of <i>Dirofilaria immitis</i> in shelter dogs Maureen Kelly <i>Texas A&M University</i>	74. Gastrointestinal nematode (GIN) diversity in North American bison assessed by using deep amplicon sequencing William Johnson <i>Kansas State University</i>
14.30-14.45	69. <i>In vitro</i> molting of <i>Dirofilaria immitis</i> third-stage larvae derived from microfilariae collected from doxycycline-treated dogs Yi Chu <i>University of Georgia</i>	75. Anthelmintic efficacy of <i>Bacillus thuringiensis</i> crystal protein CryH18 against monogastric and ruminant gastrointestinal nematodes Elizabeth Kass <i>University of Rhode Island</i>
14.45-15:15	Coffee Break (Sponsored by AAVP) Room: Ballroom Lobby	

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Monday, June 12, 2023 (continued)		
13.15-16.45	CONCURRENT SCIENTIFIC SESSIONS (continued)	
15.15-16.45	<p style="text-align: center;">Session 13: Large Animal 4 Diagnosis & Control Room: Ballroom B, C & D Moderators: Kathryn Duncan & Vishnu Manikantan</p>	<p style="text-align: center;">Session 14: Potpourri Room: Ballroom A Moderators: Charles Faulkner & Kamilyah Miller</p>
15.15-15.30	<p>76. Characterizing strongyle infections in the New England dairy goat community Nils Pilotte <i>Quinnipiac University</i></p>	<p>82. Horizontal gene transfer provides a key link between ancestors of <i>Trichinella</i> and the plant kingdom Dante Zarlenga <i>USDA, Agriculture Research Service</i></p>
15.30-15.45	<p>77. A rapid, automated method for the quantification of <i>Haemonchus contortus</i> ova in sheep fecal samples Paul Slusarewicz <i>Parasight System Inc</i></p>	<p>83. The brief residency of <i>Dirofilaria immitis</i> in the peritoneal cavity of the Mongolian jird (<i>Meriones unguiculatus</i>) Elyssa Campbell <i>University of Georgia</i></p>
15.45-16.00	<p>78. Parasitology and hematological analysis in ewes with single and twin lambs Quaid Watwood <i>Eastern Kentucky University</i></p>	<p>84. Variation in the V-type proton ATPase subunit gene <i>vha-19</i> confers resistance to Cry5B in <i>Caenorhabditis elegans</i> JB Collins <i>Northwestern University</i></p>
16.00-16.15	<p>79. <i>Ancylostoma caninum</i>-derived neutrophil inhibitory factor impairs ovine neutrophil chemotaxis to <i>Haemonchus contortus</i> larval antigen in a breed-dependent manner Hannah Teddleton <i>West Virginia University</i></p>	<p>85. Exploring microbial natural products as sources of novel broad-spectrum anthelmintics Kaetlyn Ryan <i>University of Wisconsin</i></p>
16.15-16.30	<p>80. Combination of inhibitors of two glycolytic enzymes shows a highly synergistic effect against <i>Cryptosporidium parvum</i> Shahbaz Khan <i>University of Illinois Urbana-Champaign</i></p>	<p>86. Detection of <i>Babesia conradae</i> in Coyotes (<i>Canis latrans</i>) and Coyote-Hunting Greyhound Dogs (<i>Canis familiaris</i>) Ruth Scimeca <i>Oklahoma State University</i></p>
16.30-16.45	<p>81. Parasite pool party: Pooled sampling as an alternative method in fecal egg count reduction tests Grace Perrin <i>University of Kentucky</i></p>	<p>87. Subtype analysis of <i>Blastocystis</i> sp. infection diagnosed at the Cornell Animal Health Diagnostic Center during 2018-2022 Ranju Manoj <i>Cornell University</i></p>
16.45-18:00	POSTER SESSION (informal session) Room: Triple Crown Room	
17.00-17:45	<p style="text-align: center;">Student Round Table with Journal Managers/Editors Room: Ballroom B-D</p>	<p style="text-align: center;">DACVM Meeting Room: Ballroom A</p>
18.00-18.45	<p style="text-align: center;">Antech Symposium 88. 'Hooking back': Updates on GI parasite findings in dogs and cats from 2022 Christian Leutenegger and Michelle Evason <i>Antech</i> Room: Ballroom B, C & D</p>	
19.00-21.00	<p style="text-align: center;">Antech Monday Evening Social & YITG Auction Room: Magnolia</p>	

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Tuesday, June 13, 2023	
8.00-8.30	Light breakfast (Sponsored by AAVP) Ballroom Lobby
8:30-10.15	PRESIDENT’S SYMPOSIUM: The Future is Now
8.30-10.15	<p style="text-align: center;">PRESIDENT’S SYMPOSIUM Moderator: Jennifer Ketzis Room: Ballroom B, C & D</p> <p style="text-align: center;">Announcement of Student Winners & Introduction of Speakers (10 mins)</p> <p style="text-align: center;">89. The National Center for Veterinary Parasitology: Supporting parasitologists, advancing parasitology Ruth Scimeca (15 mins) <i>National Center for Veterinary Parasitology</i></p> <p style="text-align: center;">90. Building for the future - an academic parasitology perspective Lindsay Starkey (15 mins) <i>Auburn University</i></p> <p style="text-align: center;">Building the future - a stronger together perspective Marie Varloud (15 mins) <i>Ceva Santé Animale</i></p> <p style="text-align: center;">Panel discussion Tim Geary, Ruth Scimeca, Lindsay Starkey, William Johnson, Pablo Jimenz Castro, Marie Varloud</p> <p style="text-align: center;">Student Award Winners! Please stay afterwards for group photo.</p>
10.15-10.45	Coffee Break (Sponsored by AAVP) Room: Ballroom Lobby
10.45-13.00	<p style="text-align: center;">AAVP-NCVP Parasite Case Discussions Moderator: Gui Verocai and Mani Lejeune</p> <p style="text-align: center;">11.45-12.00 break for boxed lunches for attendees (sponsored by NCVP) Room: Ballroom B, C & D</p>
13.00	Meeting adjourns – Happy Travels to You!

2023 AAVP PROGRAM POSTER PRESENTATIONS

Please put up all posters in the **Triple Crown Room** by Sunday morning (8:15 AM, 6/11/2023) and leave your poster up until the end of the Monday poster viewing session (6:00 PM, informal session). Plan to stand at your poster (formal judging for students) during the Sunday, 6/11/2023 afternoon poster social.

Sunday, June 11, 2023	
17.30-18.30	Poster Viewing
91. Redescription of larvae, nymphs and adult females of <i>Ornithodoros (Pavlovskyella) tartakovskyi</i> with scanning electron microscopy Sebastián Muñoz Leal <i>Universidad de Concepción</i>	
92. Multiple drug resistant <i>Ancylostoma caninum</i> in a foxhound kennel in New Jersey, USA Jenna Balk <i>Virginia Tech</i>	
93. Matrix-assisted laser desorption/ionization time of flight mass spectrometry (MALDI-TOF MS) as a diagnostic tool for the rapid identification of lice species Sawsan Ammar <i>University of Calgary</i>	
94. Genetic identification of beef cattle lice before and after ivermectin treatment and development of Loop-mediated isothermal amplification (LAMP) rapid diagnostics test Muhammad Bilal <i>University of Calgary</i>	
95. Assessing the impact of climate change on the spatio-temporal distribution of ovine haemonchosis in Canada: A Q0 model approach Muhammad Bilal <i>University of Calgary</i>	
96. A tool for mosquito egg enumeration Christopher Evans <i>University of Georgia</i>	
97. How topical formulation physical attributes impact cat owner preference for antiparasitic treatments: qualitative validation of a discrete choice experiment Kennedy Mwacalimba <i>Zoetis Animal Health</i>	
98. Invenesis: bringing drug discovery to everybody Lucien Rufener <i>Invenesis</i>	
99. TroCCAP Guidelines: Standard Operating Procedures for diagnosis of canine and feline endo- and ecto-parasites in the tropics Jennifer Ketzis <i>Ross University School of Veterinary Medicine</i>	

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Sunday, June 11, 2023 (continued)	
17.30-18.30	Poster Viewing (continued)
100. Prevalence of gastrointestinal nematodes on Wyoming livestock and wildlife ruminants	Md Ashraful Islam Bhuiya <i>University of Wyoming</i>
101. Volatiles in feces of rats infected with the tapeworm <i>Hymenolepis diminuta</i>	Mason Martin <i>Virginia Tech</i>
102. Molecular survey of gastrointestinal parasites in hunting dogs	Nathan Mitchell <i>Virginia Tech</i>
103. Imported and traveling dogs as carriers of <i>Dirofilaria immitis</i> from South America	Theresa Quintana <i>Kansas State University</i>
104. Retrospective analysis of bovine <i>Buxtonella sulcata</i> cases recorded at the Cornell Animal Health Diagnostic Center, NY, USA	Rebecca Young <i>Cornell University</i>
105. Persistence of <i>Sarcocystis neurona</i> , and histopathologic changes in horses with EPM	Lauren Helber <i>Virginia Tech</i>
106. Target molecules of <i>Bacillus thuringiensis</i> crystal proteins and anthelmintic compounds in <i>C. elegans</i>	Youmie Kim <i>UMASS Chan Medical School</i>
107. A longitudinal study of changes in genetic diversity and benzimidazole resistance mutation frequency of ovine gastrointestinal nematodes in western Canada	Romy Van Halderen <i>University of Calgary</i>
108. Nemabiome metabarcoding of wild conservation bison herds and co-grazing cattle reveals different species compositions and benzimidazole resistance	Kaylee Kipp <i>Texas A&M University</i>
109. Endocrine Egg Race: Determining egg reappearance periods in aged horses with endocrine disorders after ivermectin treatment	Constance Finnerty <i>University of Kentucky</i>
110. Changes in strongyle fecal egg counts over one year in two horse herds in Baton Rouge, Louisiana, with a comparison of selective treatment versus spring and fall “blanket” deworming	Erin Oberhaus <i>Louisiana State University</i>

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Sunday, June 11, 2023 (continued)	
17.30-18.30	Poster Viewing (continued)
111. Evaluating the performance of three techniques for diagnosing equine tapeworm infection Shaelin Warner <i>University of Kentucky</i>	
112. Same s**t, different day: Changes in larval counts across time in equine coprocultures Nichol Ripley <i>University of Kentucky</i>	
113. <i>Trichostrongylus axei</i> transcriptome: comparison of <i>in vivo</i> and <i>in vitro</i> profiles Katy Martin <i>Iowa State University</i>	
114. Novel methodology for the study of <i>Toxocara canis</i> somatic larvae Katy Martin <i>Iowa State University</i>	
115. A nationwide survey for <i>Dirofilaria immitis</i> demonstrates a 3.5% antibody and 0.3% antigen positivity in apparently healthy pet cats in the United States of America Daniel Felipe Barrantes Murillo <i>Auburn University</i>	
116. A comparative analysis of four immune complex dissociation techniques for canine heartworm antigen testing Daniel Felipe Barrantes Murillo <i>Auburn University</i>	
117. Investigating <i>Dirofilaria immitis</i> isolates and their susceptibility/resistance patterns to macrocyclic lactones infecting canines in the northern region of the Mississippi delta area (southeast Missouri) Peggy Fisher <i>University of Missouri</i>	
118. <i>Bacillus thuringiensis</i> crystal proteins as treatments for gastrointestinal nematode infections Duy Hoang <i>UMASS Chan Medical School</i>	
119. Preliminary data using bleach and desiccation in combination for reduction in viability or destruction of <i>Toxocara canis</i> eggs on hard surfaces Janice Liotta <i>Cornell University</i>	
120. Molecular characterization of <i>Dictyocaulus</i> (Nematoda: Dictyocaulidae) lungworms infecting White-tailed deer (<i>Odocoileus virginianus</i>) Hannah Danks <i>Texas A&M University</i>	

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Sunday, June 11, 2023 (continued)	
17.30-18.30	Poster Viewing (continued)
	121. Respiratory nematodes in wild canids in Virginia and Pennsylvania Estefania Pereyra Cruzado <i>Virginia Tech</i>
	122. Parasite diversity in shelter dogs and mesocarnivore species on Long Island, NY: A combined metagenomics and coproscopic approach Pratap Kafle <i>Long Island University</i>
	123. Clinical, parasitological, serological and molecular follow-up of dogs naturally infected by <i>Leishmania infantum</i> submitted to therapy with marbofloxacin Leucio Câmara Alves <i>Federal Rural University of Pernambuco</i>
	124. Pathological-clinical staging of dogs with canine leishmaniasis Leucio Câmara Alves <i>Federal Rural University of Pernambuco</i>