

PROGRAM



TIME	SESSION/TITLE	SPEAKER	LOCATION
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WEDNESDAY, SEPTEMBER 7

4:00-8:00 PM	Registration / Check-in		Maison Foyer
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THURSDAY, SEPTEMBER 8

7:00 AM	Continental Breakfast		Lafayette Ballroom
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7:45	Welcome / Introductions / Announcements	Dr. Chris Duke	Grand Ballroom
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8:00-10:30 AM Session 1: Animal Models in Heartworm Research Moderators: Duke / Moorhead

8:00-9:00	Keynote Address: Getting to know <i>Dirofilaria immitis</i> better to control it better	Prof. Tim Geary	Grand Ballroom
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9:00-9:20	A dirofilariasis mouse model for heartworm preclinical drug testing	Dr. Joseph Turner	Grand Ballroom
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9:20-9:40	Replacing the dog in canine heartworm research. I. Description of a novel in vivo model	Dr. Michael Dzimianski	Grand Ballroom
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9:40-10:00	Replacing the dog in canine heartworm research. II. Application of a novel in vivo model	Dr. Michael Dzimianski	Grand Ballroom
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10:00-10:30 AM	Break		Lafayette Ballroom
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10:30-11:10 AM Session 1: Animal Models in Heartworm Research (continued) Moderators: Duke / Moorhead Sponsored by Merck Animal Health

10:30-10:50	Model of a lifetime: Development and optimization of a small-animal in vivo heartworm infection model	Dr. Molly Savadelis	Grand Ballroom
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10:50-11:10	Speaker Panel Q&A		Grand Ballroom
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11:10 AM-12:30 PM Session 2: Heartworm Management: The Mosquito Vector Moderators: Rizzo / Starkey Sponsored by Merck Animal Health



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TIME	SESSION/TITLE	SPEAKER	LOCATION
11:10–11:30	Deworming mosquitoes: Using drugs to block <i>Dirofilaria immitis</i> in its vector	<i>Dr. Michael Povelones</i>	Grand Ballroom
11:30–11:50	Effects on mosquitoes fed blood from dogs following a single oral treatment with Bravecto® (fluralaner)	<i>Dr. Andy Moorhead</i>	Grand Ballroom
11:50–12:10	Insecticidal activity of Simparica® and Simparica Trio® against <i>Aedes aegypti</i> in dogs	<i>Dr. Thomas Geurden</i>	Grand Ballroom
12:10–12:30	Speaker Panel Q&A		Grand Ballroom
12:30–2:00	LUNCH - Noontime Knowledge (Preregistration Required)		
	Heartworm Headaches & Heartbreaks	<i>Drs. Chris Rehm and Tom Nelson</i>	St. Charles Room
	Treating Severe Heartworm Infection	<i>Drs. Andy Moorhead and Marisa Ames</i>	Barrone Room
2:00–3:00 PM	Session 3: Clinical Topics, Part I Moderators: Adolph / Clyde Druin		
2:00–2:20	Echocardiographic findings and outcome in small breed dogs with heartworm disease	<i>Dr. Imke Maerz</i>	Grand Ballroom
2:20–2:40	Feline heartworm disease and hypersensitivity to environmental allergens: Is there a link?	<i>Dr. Elena Carretón</i>	Grand Ballroom
2:40–3:00	Speaker Panel Q&A		Grand Ballroom
3:00–7:30	Open time - Free afternoon		
7:30–9:30	Opening Reception Sponsored by Boehringer Ingelheim		Grand Ballroom



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TIME	SESSION/TITLE	SPEAKER	LOCATION
FRIDAY, SEPTEMBER 9			
7:00 AM	Continental Breakfast		Lafayette Ballroom
7:45	Welcome / Introductions / Announcements	<i>Dr. Chris Duke</i>	Grand Ballroom
8:00–10:00 AM	Session 4: Heartworm Prevention Moderators: Rhem / Starkey Sponsored by Zoetis 		
8:00–8:20	Evaluating moxidectin in the face of heartworm resistance	<i>Dr. Molly Savadelis</i>	Grand Ballroom
8:20–8:40	Microfilaricidal and adulticidal effects of Simparica Trio® in experimentally induced heartworm infections: A safety study	<i>Dr. Jessica Rodriguez</i>	Grand Ballroom
8:40–9:00	Comparative preventive efficacy of ProHeart® 12, Heartgard® Plus and Interceptor® Plus against a macrocyclic lactone-resistant strain (JYD-34) of heartworm in dogs	<i>Susan Holzmer</i>	Grand Ballroom
9:00–9:20	Preventive efficacy of oral moxidectin, Simparica Trio®, Heartgard® Plus and Interceptor® Plus against macrocyclic lactone-resistant strains of heartworm (<i>Dirofilaria immitis</i>) in dogs	<i>Dr. Kristina Kryda</i>	Grand Ballroom
9:20–9:40	Retrospective analyses of heartworm (<i>Dirofilaria immitis</i>) and flea and tick prevention medication compliance in veterinary practices in the US	<i>Dr. Chris Adolph</i>	Grand Ballroom
9:40–10:00	Speaker Panel Q&A		Grand Ballroom
10:00–10:30 AM	Break		Lafayette Ballroom

CE Credit: This program has been approved for up to 21.5 hours of continuing education credit in jurisdictions that recognize AAVSB RACE approval; however, participants should be aware that some boards have limitations on the number of hours accepted in certain categories and/or restrictions on certain methods of delivery of continuing education. Call Sonya Hennessy at 919-803-6113 for further information.



TIME	SESSION/TITLE	SPEAKER	LOCATION
10:30 AM–12:30 PM	Session 5: Clinical Topics, Part II Moderators: Ames / Bourgeois		
10:30–10:50	Heartworm disease – An incomplete picture of its pathology	<i>Dr. Steve Jones</i>	Grand Ballroom
10:50–11:10	Usefulness of NT-proBNP in dogs with heartworm: Could this biomarker be useful to evaluate pulmonary hypertension?	<i>Dr. Elena Carretón</i>	Grand Ballroom
11:10–11:30	Serological biomarkers (serum acute phase proteins, adiponectin and endothelin-1) for the evaluation of pulmonary hypertension in dogs with heartworm before and after adulticide treatment	<i>Dr. Elena Carretón</i>	Grand Ballroom
11:30–11:50	Angiotensin-converting enzyme 2 in dogs with <i>Dirofilaria immitis</i>	<i>Dr. Darcy Adin</i>	Grand Ballroom
11:50–12:10	Point of care ultrasound (POCUS) in dogs with heartworm infection	<i>Dr. Marisa Ames</i>	Grand Ballroom
12:10–12:30	Q&A for the Clinicians		Grand Ballroom
12:30–2:00	LUNCH - Noontime Knowledge (Preregistration Required)		
	Heartworm Disease in the Shelter and Rescue Setting	<i>Drs. Angele Bice and Brian DiGangi</i>	Evangeline & Acadia Rooms
	Heartworm Headaches & Heartbreaks	<i>Drs. Chris Rehm and Tom Nelson</i>	St. Charles Room
2:00–3:00 PM	Session 6: Heartworm Diagnosis Moderators: Starkey / Clyde Druin		
2:00–2:20	Temporal patterns of <i>Dirofilaria immitis</i> -derived microRNA populations in serum of experimentally infected dogs in the search for novel diagnostic biomarkers	<i>Dr. Guilherme Gomes Verocai</i>	Grand Ballroom
2:20–2:40	Droplet digital PCR as a tool to detect resistant isolates of <i>Dirofilaria immitis</i>	<i>Sohini Kumar</i>	Grand Ballroom
2:40–3:00	Probe-based qPCR as an alternative to Knott's test when screening dogs for heartworm infection in combination with antigen detection tests	<i>Dr. Guilherme Gomes Verocai</i>	Grand Ballroom

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TIME	SESSION/TITLE	SPEAKER	LOCATION
3:00–3:30 PM	Break		Lafayette Ballroom
3:30–5:20 PM	Session 6: Heartworm Diagnosis (continued)		
3:30–3:50	Evaluation of urine for <i>Dirofilaria immitis</i> antigen detection in dogs	Dr. Meriam Saleh	Grand Ballroom
3:50–4:10	Increasing temperature denatures canine IgG reducing its ability to inhibit heartworm antigen detection	Dr. Jeff Gruntmeir	Grand Ballroom
4:10–4:30	No antigen cross-reactivity before or after heat treatment in heartworm-negative dogs infected by intestinal parasites, <i>Acanthocheilonema reconditum</i> , and the dermal filariid <i>Cercopithifilaria baina</i>	Dr. Jeff Gruntmeir	Grand Ballroom
4:30–5:00	Rethinking feline heartworm disease!	Dr. Tom Nelson	Grand Ballroom
5:00–5:20	Speaker Panel Q&A		
5:20–6:30	Poster Session and Champagne Reception		Lafayette Ballroom



Be sure to attend the
**AHS Luncheon and
 Business Meeting**
Saturday 11:45 am–1:30 pm
in the Grand Ballroom
 Election of Officers |
 Presentation of Awards
*Badged AHS
 Members Only*

TIME	SESSION/TITLE	SPEAKER	LOCATION
SATURDAY, SEPTEMBER 10			
7:00 AM	Continental Breakfast		Lafayette Ballroom
7:45–8:00 AM	Welcome / Introductions / Announcements	<i>Dr. Chris Duke</i>	Grand Ballroom
8:00–10:00 AM	Session 7: <i>Wolbachia</i> and Doxycycline Moderators: Nelson / Duke Sponsored by Boehringer Ingelheim  Boehringer Ingelheim		
8:00–8:20	Short-course azaquinazoline anti- <i>Wolbachia</i> drugs for heartworm: Once-monthly dose prophylaxis proof-of-concept in rodent infection models	<i>Dr. Joseph Turner</i>	Grand Ballroom
8:20–8:40	Inability of <i>Dirofilaria immitis</i> infective larvae from mosquitoes fed on microfilaremic dogs during low-dose and short-treatment regimen doxycycline plus ivermectin treatment to complete normal development in heartworm naive dogs	<i>Dr. John McCall</i>	Grand Ballroom
8:40–9:00	Long-term evaluation of viability of microfilariae and IV transplanted adult <i>Dirofilaria immitis</i> in microfilaremic dogs treated with low-dose, short and long regimens of doxycycline and ivermectin	<i>Dr. John McCall</i>	Grand Ballroom
9:00–9:20	Rationale and design of a study to determine the optimum dose of doxycycline and timing of melarsomine injections following doxycycline/ivermectin administration in treatment of <i>Dirofilaria immitis</i>	<i>Dr. Tom Nelson</i>	Grand Ballroom
9:20–9:40	Setting the Stage for the Brazil Doxycycline <i>Wolbachia</i> study	<i>Dr. Doug Carithers</i>	Grand Ballroom
9:40–10:00	Speaker Panel Q&A		Grand Ballroom
10:00–10:30	Break		Lafayette Ballroom

PROGRAM



TIME	SESSION/TITLE	SPEAKER	LOCATION
10:30–11:45 AM	Session 8: Cellular Basis of Heartworm Disease Moderators: Carithers / Duke		
10:30–10:50	Single-cell perspectives on anthelmintic action and filarial antigens	<i>Dr. Mostafa Zamanian</i>	Grand Ballroom
10:50–11:10	Influence of <i>Dirofilaria immitis</i> somatic extract in canine vascular endothelium and perivascular smooth muscle: Proteomic study using LC-MS/MS	<i>Dr. Rodrigo Morchón García</i>	Grand Ballroom
11:10–11:30	Study of angiogenic process in an in-vivo model of endothelial cells stimulated with <i>Dirofilaria</i> excretory/secretory antigens and cuticle proteins	<i>Dr. Rodrigo Morchón García</i>	Grand Ballroom
11:30–11:45	Speaker Panel Q&A		Grand Ballroom
11:45–1:30 PM	Luncheon and Business Meeting Luncheon sponsored by Merck Animal Health		Grand Ballroom
			
1:30–4:30 PM	Session 9: Clinical Topics, Part III Moderators: Ames / Clyde Druin		Grand Ballroom
1:30–1:50	Evaluation of renal values during treatment for heartworm disease in 27 client-owned dogs	<i>Dr. Allison Meindl</i>	Grand Ballroom
1:50–2:40	Anesthesia for dogs with heartworm disease	<i>Dr. Jane Quandt</i>	Grand Ballroom
2:40–3:00	Management and outcome of intracardiac heartworms in dogs	<i>Dr. Jorge Vila</i>	Grand Ballroom
3:00–3:30 PM	Break		Lafayette Ballroom
3:30–4:00	Interpretation of the right heart of thoracic radiographs	<i>Dr. Marisa Ames</i>	Grand Ballroom
4:00–4:30	Speaker Panel Q&A		Grand Ballroom

TIME	SESSION/TITLE	SPEAKER	LOCATION
SUNDAY, SEPTEMBER 11			
7:00 AM	Continental Breakfast		Lafayette Ballroom
7:45–8:00 AM	Welcome / Introductions / Announcements	<i>Dr. Jenni Rizzo</i>	Grand Ballroom
8:00–10:00 AM	Session 10: Heartworm Management in Shelters, Zoos and Community Practice Moderators: DiGangi / Moorhead / Ames		
8:00–8:20	Decision-making considerations for heartworm management in shelter dog populations	<i>Dr. Uri Donnett</i>	Grand Ballroom
8:20–9:00	Heartworm adulticide treatment: A tropical perspective	<i>Dr. Filipe Dantas-Torres</i>	Grand Ballroom
9:00–9:20	Further variation of the adulticide protocol for the treatment of canine heartworm infection: Can it be even shorter and cost less?	<i>Dr. Linda Jacobson</i>	Grand Ballroom
9:20–9:40	Should heartworm treatment guidelines embrace spectrum of care alternatives to melarsomine? A review of “moxi-doxy”	<i>Dr. Linda Jacobson</i>	Grand Ballroom
9:40–10:00	All things equal, do cats and dogs carry a similar risk of exposure to heartworms?	<i>Dr. Jessica Rodriguez</i>	Grand Ballroom
10:00–10:30	Break		Lafayette Ballroom
10:30–11:40 AM	Session 10: Heartworm Management in Shelters, Zoos and Community Practice (continued) Moderators: DiGangi / Moorhead / Ames		
10:30–10:50	Heartworm, <i>Dirofilaria immitis</i> , in carnivores kept in zoos located in Texas, USA: Risk perception, practices, and prevalence	<i>Dr. Kaitlyn Upton</i>	Grand Ballroom
10:50–11:10	Detection of <i>Dirofilaria immitis</i> via integrated serological and molecular analyses in coyotes from Texas, USA	<i>Dr. Caroline Soboty</i>	Grand Ballroom
11:10–11:40	Speaker Panel Q&A		Grand Ballroom