


# PRELIMINARY SCIENTIFIC PROGRAM



TIME	SESSION / TITLE	SPEAKER
<b>WEDNESDAY, SEPTEMBER 7</b>		
<b>4:00-8:00 PM</b>	<b>Registration / Check-in</b>	
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<b>THURSDAY, SEPTEMBER 8</b>		
<b>7:00 AM</b>	<b>Continental Breakfast</b>	
7:45	Welcome / Introductions / Announcements	<i>Dr. Chris Duke</i>
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<b>8:00-10:30 AM</b>	<b>Session 1: Animal Models in Heartworm Research</b>	
8:00-9:00	<b>Keynote Address:</b> Getting to know <i>Dirofilaria immitis</i> better to control it better	<i>Prof. Dr. Tim Geary</i>
9:00-9:20	A dirofilariasis mouse model for heartworm preclinical drug testing	<i>Dr. Joseph Turner</i>
9:20-9:40	Replacing the dog in canine heartworm research. I. Description of a novel in vivo model	<i>Dr. Michael Dzimianski</i>
9:40-10:00	Replacing the dog in canine heartworm research. II. Application of a novel in vivo model	<i>Dr. Michael Dzimianski</i>
<b>10:00-10:30 AM</b>	<b>Break</b>	
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<b>10:30-11:10 AM</b>	<b>Session 1: Animal Models in Heartworm Research (continued)</b>	
10:30-10:50	Model of a lifetime: Development and optimization of a small-animal in vivo heartworm infection model	<i>Dr. Molly Savadelis</i>
10:50-11:10	Speaker Panel Q&A	
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<b>11:10 AM-12:30 PM</b>	<b>Session 2: Heartworm Management: The Mosquito Vector</b>	
11:10-11:30	Deworming mosquitoes: Using drugs to block <i>Dirofilaria immitis</i> in its vector	<i>Dr. Michael Povelones</i>
11:30-11:50	Effects on mosquitoes fed blood from dogs following a single oral treatment with Bravecto® (fluralaner)	<i>Dr. Andy Moorhead</i>
11:50-12:10	Insecticidal activity of Simparica® and Simparica Trio® against <i>Aedes aegypti</i> in dog	<i>Dr. Thomas Geurden</i>
12:10-12:30	Speaker Panel Q&A	
<b>12:30-2:00</b>	<b>LUNCH - Noontime Knowledge (Preregistration Required)</b>	
	<b>Heartworm Headaches &amp; Heartbreaks</b>	<i>Drs. Chris Rehm and Tom Nelson</i>
	<b>Treating Severe Heartworm Infection</b>	<i>Drs. Andy Moorhead and Marisa Ames</i>

# PRELIMINARY SCIENTIFIC PROGRAM



TIME	SESSION / TITLE	SPEAKER
<b>2:00-3:00 PM</b>	<b>Session 3: Clinical Topics, Part I</b>	
2:00-2:20	Echocardiographic findings and outcome in small breed dogs with heartworm disease	<i>Dr. Imke Maerz</i>
2:20-2:40	Feline heartworm disease and hypersensitivity to environmental allergens: Is there a link?	<i>Dr. Elena Carreton</i>
2:40-3:00	Speaker Panel Q&A	
<b>3:00-7:30</b>	<b>Open time - Free afternoon</b>	
<b>7:30-9:30</b>	<b>Opening Reception Sponsored by Boehringer-Ingelheim</b>	
		

## FRIDAY, SEPTEMBER 9

### 7:00 AM

#### Continental Breakfast

7:45 AM

Welcome / Introductions / Announcements

*Dr. Chris Duke*

### 8:00-10:00 AM

#### Session 4: Heartworm Prevention

8:00-8:20

Evaluating moxidectin in the face of heartworm resistance

*Dr. Molly Savadelis*

8:20-8:40

Microfilaricidal and adulticidal effects of Simparica Trio® in experimentally induced heartworm infections: A safety study

*Dr. Jessica Rodriguez*

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

*Susan Holzmer*

9:00-9:20

Preventive efficacy of oral moxidectin, Simparica Trio®, Heartgard® Plus and Interceptor® Plus against macrocyclic lactone-resistant strains of heartworm (*Dirofilaria immitis*) in dogs

*Dr. Kristina Kryda*

9:20-9:40

Retrospective analyses of heartworm (*Dirofilaria immitis*) and flea and tick prevention medication compliance in veterinary practices in the US

*Dr. Chris Adolph*

9:40-10:00

Speaker Panel Q&A

### 10:00-10:30 AM

#### Break

TIME	SESSION / TITLE	SPEAKER
<b>10:30 AM-12:30 PM</b>	<b>Session 5: Clinical Topics, Part II</b>	
10:30-10:50	Pulmonary parenchymal disease	<i>Dr. Steve Jones</i>
10:50-11:10	Usefulness of NT-proBNP in dogs with heartworm: Could this biomarker be useful to evaluate pulmonary hypertension?	<i>Dr. Elena Carreton</i>
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 Carreton</i>
11:30-11:50	Angiotensin-converting enzyme 2 in dogs with <i>Dirofilaria immitis</i>	<i>Dr. Darcy Adin</i>
11:50-12:10	Point of care ultrasound (POCUS) in dogs with heartworm infection	<i>Dr. Marisa Ames</i>
12:10-12:30	Q&A for the Clinicians	
<b>12:30-2:00</b>	<b>LUNCH - Noontime Knowledge (Preregistration Required)</b>	
	<b>Heartworm Disease in the Shelter and Rescue Setting</b>	<i>Drs. Angele Bice and Brian DiGangi</i>
	<b>Heartworm Headaches &amp; Heartbreaks</b>	<i>Drs. Chris Rehm and Tom Nelson</i>
<b>2:00-3:00 PM</b>	<b>Session 6: Heartworm Diagnosis</b>	
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>
2:20-2:40	Droplet digital PCR as a tool to detect resistant isolates of <i>Dirofilaria immitis</i>	<i>Sohini Kumar</i>
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>
<b>3:00-3:30 PM</b>	<b>Break</b>	
<b>3:30 - 5:40 PM</b>	<b>Session 6: Heartworm Diagnosis (continued)</b>	
3:30-3:50	Evaluation of urine for <i>Dirofilaria immitis</i> antigen detection in dogs	<i>Dr. Meriam Saleh</i>

# PRELIMINARY SCIENTIFIC PROGRAM



TIME	SESSION / TITLE	SPEAKER
3:50-4:10	Increasing temperature denatures canine IgG reducing its ability to inhibit heartworm antigen detection	Dr. Jeff Gruntmeir
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 bainae</i>	Dr. Jeff Gruntmeir
4:30-5:00	Feline heartworm diagnosis	Dr. Tom Nelson
5:00-5:20	Speaker Panel Q&A	
<b>5:20 - 6:30</b>	<b>Poster Session</b>	

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## SATURDAY, SEPTEMBER 10

### 7:00 AM

### Continental Breakfast

7:45 - 8:00 AM Welcome / Introductions / Announcements Dr. Chris Duke

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### 8:00-10:00 AM **Session 7: Wolbachia and Doxycycline**

8:00-8:20 Short-course azaquinazoline anti-*Wolbachia* drugs for heartworm: Once-monthly dose prophylaxis proof-of-concept in rodent infection models Dr. Joseph Turner

8:20-8:40 Inability of *Dirofilaria immitis* 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 Dr. John McCall

8:40-9:00 Long-term evaluation of viability of microfilariae and IV transplanted adult *Dirofilaria immitis* in microfilaremic dogs treated with low-dose, short and long regimens of doxycycline and ivermectin Dr. John McCall

9:00-9:20 Preview: Doxycycline dosage study Dr. Tom Nelson

9:20-9:40 Brazil doxycycline & *Wolbachia* study Dr. Doug Carithers

9:40-10:00 Speaker Panel Q&A

**10:00-10:30 Break**

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# PRELIMINARY SCIENTIFIC PROGRAM



TIME	SESSION / TITLE	SPEAKER
<b>10:30-11:45 AM</b>	<b>Session 8: Cellular Basis of Heartworm Disease</b>	
10:30-10:50	Single-cell perspectives on anthelmintic action and filarial antigens	<i>Dr. Mostafa Zamanian</i>
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 Morchon Garcia</i>
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 Morchon Garcia</i>
11:30-11:45	Speaker Panel Q&A	
<b>11:45-1:30 PM</b>	<b>Luncheon and Business Meeting</b> <b>Luncheon sponsored by Merck</b>	
		
<b>1:30-4:30 PM</b>	<b>Session 9: Clinical Topics, Part III</b>	
1:30-1:50	Evaluation of renal values during treatment for heartworm disease in 27 client-owned dogs	<i>Dr. Allison Meindl</i>
1:50-2:40	Anesthesia for dogs with heartworm disease	<i>Dr. Jane Quandt</i>
2:40-3:00	Management and outcome of intracardiac heartworms in dogs	<i>Dr. Jorge Vila</i>
<b>3:00-3:30 PM</b>	<b>Break</b>	
3:30-4:00	Interpretation of the right heart of thoracic radiographs	<i>Dr. Marisa Ames</i>
4:00-4:30	Speaker Panel Q&A	
<hr/> <b>SUNDAY, SEPTEMBER 11</b>		
<b>7:00 AM</b>	<b>Continental Breakfast</b>	
7:45-8:00 AM	Welcome / Introductions / Announcements	<i>Dr. Jenni Rizzo</i>
<b>8:00-10:00 AM</b>	<b>Session 10: Heartworm Management in Shelters, Zoos and Community Practice</b>	
8:00-8:20	Decision-making considerations for heartworm management in shelter dog populations	<i>Dr. Uri Donnett</i>

TIME	SESSION / TITLE	SPEAKER
8:20-9:00	Heartworm adulticide treatment: A tropical perspective	<i>Dr. Filipe Dantas-Torres</i>
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>
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>
9:40-10:00	All things equal, do cats and dogs carry a similar risk of exposure to heartworms?	<i>Dr. Jessica Rodriguez</i>
<b>10:00-10:30</b>	<b>Break</b>	
<b>10:30–11:40 AM</b>	<b>Session 10: Heartworm Management in Shelters, Zoos and Community Practice (continued)</b>	
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>
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>
11:10-11:40	Speaker Panel Q&A	