

The Intestinal Microbiome – In Health and Disease
Live Virtual Course
April 11-12, 2022

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DAY 1 Monday, April 11, 2022		
Time (Mountain Time)	Topic	Presenter(s)
8:00-8:15 am	Welcome and Introductions	<i>Dr. Jan Suchodolski</i>
8:15-9:15 am	Microbiome Signatures in Intestinal Health and Disease <ul style="list-style-type: none"> • List major microbial derived metabolic pathways important for host health • Explain how microbiome dysbiosis varies between acute and chronic intestinal disorders • Interpret diagnostic assays that assess microbiome dysbiosis 	<i>Dr. Jan Suchodolski</i>
9:15-10:15 am	Dietetic Approach to Intestinal Dysbiosis <ul style="list-style-type: none"> • List the common causes of intestinal dysbiosis • Perform the initial nutritional assessment on a dysbiotic dog or cat • Describe how macro- and micronutrients can be manipulated to alter the intestinal microbiome and improve malnutrition 	<i>Dr. Katie Tolbert</i>
10:15-10:30 am	Break	
10:30-11:30 am	What Does Digestibility Mean and How Can It Be Utilized to Alter the Gut? Presented by Royal Canin <ul style="list-style-type: none"> • Understand how different food and animal factors affect a diet's digestibility • Describe how a diet's nutrient digestibility is measured • Explain how a diet's digestibility can influence the gastrointestinal tract and microbiota 	<i>Dr. Becca Leung</i>
11:30-12:30 pm	The Use of Fiber to Modulate the Microbiome in Clinical Settings – Part I <ul style="list-style-type: none"> • Describe characteristics of fiber • Determine how much fiber is in a pet food • Compare and contrast diets for dogs and cats with chronic enteropathies 	<i>Dr. Valerie Parker</i>

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DAY 1 (continued) Monday, April 11, 2022		
Time (Mountain Time)	Topic	Presenter(s)
12:30-1:30 pm	Lunch Break	
1:30-2:30 pm	The Use of Fiber to Modulate the Microbiome in Clinical Settings – Part II <ul style="list-style-type: none"> Identify fiber in commercial cat and dog food and estimate the content Use different fibers in a targeted manner to in particular improve stool quality and/or support the microbiota 	<i>Dr. Julia Fritz</i>
2:30-3:30 pm	Panel Discussion: Nutritional Modification of the Gut Microbiome in Health and Disease <ul style="list-style-type: none"> Discuss the health benefits of a balanced microbiome for general health Explain practical guidelines on how to improve microbiome composition in animals with acute or chronic intestinal disorders 	<i>Dr. Julia Fritz, Dr. Valerie Parker, Dr. Jan Suchodolski, Dr. Katie Tolbert, Dr. Linda Toresson, Dr. Stefan Unterer, Dr. Jenessa Winston</i>

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DAY 2 Tuesday, April 12, 2022		
Time (Mountain Time)	Topic	Presenter(s)
8:00-9:00 am	Dysbiosis and Enteropathogens – Which One Should We Treat? <ul style="list-style-type: none"> • Discuss the limited contributions of many enteropathogens to intestinal disorders • Recognize how enteropathogens are regulated by microbial metabolites • Recall that bacterial pathogens are often secondary to intestinal dysbiosis 	<i>Dr. Jan Suchodolski</i>
9:00-10:00 am	Pro and Cons of Antibiotic Use for Treatment of Acute and Chronic Diarrhea <ul style="list-style-type: none"> • Recognize that only a small percentage of dogs with acute or chronic diarrhea requires antibiotic therapy • Identify the main indications for antibiotic usage in dogs with acute and chronic diarrhea • Explain which short- and long-time side effects may occur when antibiotics are administered 	<i>Dr. Stefan Unterer</i>
10:00-10:15 am	Break	
10:15-11:15 am	Introduction to The Companion Animal Fecal Microbiota Transplantation Consortium – Proposed Initial Guidelines for Clinical Practice <ul style="list-style-type: none"> • Explain the therapeutic potential of fecal microbiota transplant • Discuss the clinical application and utility of fecal microbiota transplant in humans, dogs, and cats • Identify opportunities to expand scientific evidence related to microbiome medicine in dogs and cats 	<i>Dr. Jenessa Winston</i>
11:15-12:15 pm	Clinical Experiences with Fecal Microbiota Transplants in Dogs with Gastrointestinal Diseases <ul style="list-style-type: none"> • Recognize indicators for treating dogs with FMT • Apply donor screening and step-by-step procedure of FMT • Describe research on FMT as adjunctive therapy in canine chronic enteropathy 	<i>Dr. Linda Toresson</i>

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DAY 2 (continued) Tuesday, April 12, 2022		
Time (Mountain Time)	Topic	Presenter(s)
12:15-1:15 pm	Lunch Break	
1:15-2:15 pm	Clinical Use of Probiotics <ul style="list-style-type: none"> • Explain the mechanism of probiotics • Describe clinical studies about the use of probiotics for intestinal disorders • Explain probiotic use based on clinical case examples 	<i>Dr. Jan Suchodolski, Dr. Linda Toresson</i>
2:15-4:15 pm	Panel Discussion: Modification of the Gut Microbiome by Antibiotics and Fecal Microbiota Transplantation (FMT) <ul style="list-style-type: none"> • Assess the benefits and disadvantages of antimicrobial therapy • Explain practical guidelines on how to implement FMT in clinical practice 	<i>Dr. Julia Fritz, Dr. Valerie Parker, Dr. Jan Suchodolski, Dr. Katie Tolbert, Dr. Linda Toresson, Dr. Stefan Unterer, Dr. Jenessa Winston</i>