

**The Intestinal Microbiome – In Health and Disease
On Demand Course**

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The Intestinal Microbiome – In Health and Disease Agenda		
Module	Topic	Presenter(s)
Module 1	<p>Microbiome Signatures in Intestinal Health and Disease</p> <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>
Module 2	<p>Dietetic Approach to Intestinal Dysbiosis</p> <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>
Module 3	<p>What Does Digestibility Mean and How Can It Be Utilized to Alter the Gut? Presented by Royal Canin</p> <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>
Module 4	<p>The Use of Fiber to Modulate the Microbiome in Clinical Settings – Part I</p> <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>
Module 5	<p>The Use of Fiber to Modulate the Microbiome in Clinical Settings – Part II</p> <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>
Module 6	<p>Panel Discussion: Nutritional Modification of the Gut Microbiome in Health and Disease</p> <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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Module 7	<p>Dysbiosis and Enteropathogens – Which One Should We Treat?</p> <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>
Module 8	<p>Pro and Cons of Antibiotic Use for Treatment of Acute and Chronic Diarrhea</p> <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>
Module 9	<p>Introduction to The Companion Animal Fecal Microbiota Transplantation Consortium – Proposed Initial Guidelines for Clinical Practice</p> <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>
Module 10	<p>Clinical Experiences with Fecal Microbiota Transplants in Dogs with Gastrointestinal Diseases</p> <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>
Module 11	<p>Clinical Use of Probiotics</p> <ul style="list-style-type: none"> • Explain the mechanism of probiotics • Describe clinical studies about the use of probiotics for intestinal disorders <p>Explain probiotic use based on clinical case examples</p>	<i>Dr. Jan Suchodolski, Dr. Linda Toresson</i>
Module 12	<p>Panel Discussion: Modification of the Gut Microbiome by Antibiotics and Fecal Microbiota Transplantation (FMT)</p> <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>