Amanda A. Adams, PhD

Dr. Adams is an Associate Professor at the world renowned Gluck Equine Research Center and has 10 years of extensive experience in the Equine health industry, including design and implementation of in-house experimental trials and trials with the external industry which include working closely with pharmaceutical industries (Boehringer Ingelheim Vetmedica, Zoetis, Neogen), nutritional industries (Purina, Buckeye Nutrition, Alltech, Cooperative Research Farms, Kentucky Equine Research), and the USDA to study vaccine efficacy, product development and so on. She trains Graduate students. She is the author of 25 peer reviewed scientific publications and has attended more than 40 scientific National and International meetings to present her research. Currently, Dr. Adams is a Mars Equestrian™ Fellow, specializing in the care of senior horses. Her area of expertise is equine immunology and endocrinology with focus in three areas of study: aging, obesity/metabolic syndrome and stress. Within the 'aging' area of her research program she is characterizing mechanisms of age-associated changes in immune responses, with particular interest on decreased immune responses to vaccination and the inflamm-aging process, which is a low-grade chronic inflammatory process that occurs with old age and is identified by increased levels of circulating proteins called cytokines. Further, she is currently working on identifying and understanding the impact of nutritional interventions on these immune and inflammatory responses. An additional focus of her aging research program is to understand how PPID affects these immune responses, as well as metabolic responses. The second area of her research program is to understand the effects of obesity, ID and EMS on immune and metabolic responses. Dr. Adams' current focus is to characterize and to understand what is driving the post-prandial responses in EMS horses, and how to control these responses with nutrition and novel pharmaceuticals in order to reduce the risk of laminitis. She is also developing novel diagnostics for endocrine disease in horses. Lastly, she is investigating the effects of 'stress', induced by weaning and transportation on immune function in horses.

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