

**Equine Research Committee
2022 Report
Las Vegas, Nevada**

1. To approve the following proposals for funding from the General Research Fund in the amount of \$264,488.20:

“Characterizing Nasal T Cell Populations in Equine Herpesvirus Type 1 (EHV-1) Immune and Susceptible Horses” at Cornell University in the amount of \$19,994.00
Young Investigator Award: Camille Holmes

Executive Committee Action: Approved

Board of Trustees Action: Approved

“An EHV-1 mRNA-based Vaccine Delivered in Extracellular Vesicles” at Iowa State University in the amount of \$75,000.00

Principal Investigator: Brett Sponseller DVM, PhD

Executive Committee Action: Approved

Board of Trustees Action: Approved

“Bile Acid Profiling of Pyloric Gastric Fluid and Serum in Horses with and without Equine Glandular Gastric Disease” at Louisiana State University in the amount of \$19,942.00

Young Investigator Award: Linda Paul DVM

Executive Committee Action: Approved

Board of Trustees Action: Approved

“Stress-induced Clodronate Release to Peak Exercise Training or Bone Insult following Repetitive Administration in Young Horses” at Montana State University in the amount of \$74,932.20

Principal Investigator: Amanda Bradbery PhD

Executive Committee Action: Approved

Board of Trustees Action: Approved

“Response of Healthy Joints to Intra-articular Corticosteroids in Young, Exercising Horses” at Texas A&M University in the amount of \$74,620.00

Principal Investigator: Jessica Lucia Leatherwood PhD

Executive Committee Action: Approved

Board of Trustees Action: Approved

2. To approve the following proposal for funding from the Refrigerator Fund for Equine Head Trauma in the amount of \$40,835.00:

“Three-dimensional Finite Element Simulations of Equine Traumatic Brain Injury following Trauma” at University of Florida in the amount of \$40,835.00

Principal Investigator: Adam Biedrzycki DVM, PhD

Executive Committee Action: Approved

Board of Trustees Action: Approved

3. The Equine Research Subcommittee recommends the following areas of research funding interest for the 2023-2024 grant cycle:

AQHF supports research to improve knowledge for public benefit to advance the health, welfare, and utility of the American Quarter Horse. The Equine Research Committee will consider all proposals meeting this overarching goal, with special attention to the following areas of interest:

Equine Welfare

- discovery and detection (saliva, breath, blood, urine, hair, etc.) of performance enhancing drugs, masking agents, fitness parameters for competition, exercise physiology, training & factors of aging

Genomics

- detection of variants contributing to genetic disorders, detection of offspring from cloned animals, behavior, obesity, selective breeding practices & testing

Infectious Diseases

- vaccination & testing for CEM, EHM, EIA & EVA

Microbiome of the Horse

- metabolism, link to immune system, management & feeds

Nutrition

- nutritional management, EMS & related diseases, supplements

Executive Committee Action: Approved

Board of Trustees Action: Approved

4. To elect Dr. Holly Spooner as Chair.