



2017 FUNDED RESEARCH

Grayson-Jockey Club Research Foundation's funded 19 research totaling \$1,478,542 in 2017. The list included eleven new projects and eight which were in their second year, as well as Two Research Career Development Awards. The allotment brought the Foundation's total impact since 1983 to over \$24.8 million to fund 346 projects at 43 universities.

For more detailed information <http://goo.gl/HLnPW0>

Projects funded in 2017:

- A study to determine if continuous digital hypothermia is effective and therefore indicated in the management of endocrinopathic laminitis, the most common form of the disease.
- A test to block blood clotting with drugs, to see if we may prevent abortion and neurological disease from occurring in horses infected with EHV-1.
- A proposal examining the antibacterial properties of platelets to treat joint infections in horses more effectively than conventional therapies, with the goal of reducing morbidity and mortality.
- Metabolomic profiling of mares with placentitis to allow development of screening and specific assays to improve treatment outcome.



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- A proposal to study how kisspeptins are involved in equine pregnancy and if they can serve as a biomarker for pregnancy compromise.
- A study paving the way to investigate a new cell therapy from equine bone marrow as a targeted regenerative therapy for horses suffering from arthritis.
- Using the Equine Injury Database (EID) to better predict and identify horses at increased risk of fatal injury during racing and provide measures to further reduce the number of equine fatalities on North American racetracks.
- Research to develop critically needed knowledge about how the horse immune system responds to equine herpesvirus type1 vaccination and infection.
- Testing the theory that EIPH occurs because very high pressures in the left side of the heart during exercise result in pressures in the lungs' smallest vessels that cause them to break and bleed.
- A clinical trial demonstrating the effectiveness of ethyl pyruvate to decrease intestinal damage and improve survival in horses with large colon volvulus.
- A project to establish science-based guidelines for the nature and amount of dietary polyunsaturated fatty acids that will prevent or delay osteoarthritis in horses.

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- Gaining a better knowledge of Dorsal Displacement of the Soft Palate for new treatment options and prophylactic training methods to prevent or reduce the occurrence of DDSP in young horses starting training.
- Reviewing a new concept for a vaccine to protect horses against the disease known as Strangles and have good preliminary data suggesting this vaccine will be safe and effective.
- Determining if drug-resistant *Rhodococcus equi* can persist in the environment and if resistant strains are more likely to cause disease than susceptible strains.
- The study of a new approach, likely more efficacious and potentially safer, than currently available options to manage pain in horses.
- The risk for bone fracture in the fetlock joint due to training program and race surface properties will be determined using computer models that simulate bone damage and repair.
- A proposal to use an inhaled product applied directly into the lungs to increase immune responses to protect foals against *Rhodococcus equi*, a bacterium that causes severe pneumonia in foals.
- A project to define the critical next step in understanding the underlying mechanisms of disease by developing a database of tissue-specific gene expression and regulation in the healthy adult horse.

- A study on EHV-1 latency locations; about prevalence in horse populations, and if different latency stages exist. Finding 'stages' will allow us to speculate on interventional strategies.



2017 CAREER DEVELOPMENT AWARD

The Storm Cat Career Development Award, inaugurated in 2006, is a \$15,000 grant designed as an early boost to an individual considering a career in equine research. The 2017 recipient was Shavahn C. Loux, a postdoctoral fellow at the Gluck Equine Research Center at the University of Kentucky.

The Elaine Klein Development Award is a competitive program intended to promote development of promising investigators by providing a one year salary supplement of \$15,000. The 2017 winner was Sarah Jacob at Michigan State University.

PHIPPS AWARD

The Foundation presented the inaugural Dinny Phipps Award to the Phipps family at the Belmont Stakes Charity Celebration on June 8th, in New York City.

Earle Mack, an active participant in Thoroughbred racing and breeding for more than 50 years, created the new award to honor the legacy of his friend Dinny Phipps for his longstanding dedication to equine health. Phipps, who died April 2016, served as a board member of the Grayson-Jockey Club Research Foundation from its inception. Mack commissioned the Odon Wagner Gallery and artist Gary Weisman to create a bronze sculpture to commemorate the new award.



From left, Earle Mack, Stuart Janney III, Chris Kay, Mrs. Ogden Mills Phipps and Dell Hancock.

QUARTER HORSE CONGRESS

The All American Quarter Horse Congress is the largest single breed-horse show in the world. There are over 23,500 horse show entries and the show attracts more than 650,000 horse lovers to Columbus, Ohio.



The largest Collegiate and Youth Judging contest is held at Congress, with more than 60 teams of college students, 4-H, FFA and AQHA youth members.

GJCRF sponsored four classes in an effort to give more exposure to our new giving programs, the Junior Membership Program and Tribute Giving Program. Classes sponsored were Senior Western Pleasure, Level 1 Youth Hunter Under Saddle (ages 14 – 18), Youth Hunter Under Saddle 11 & Under, Youth Western Pleasure 11 & Under.

We partnered with Bridleplates.com and 4 Star Horse Trailers in an effort to spread awareness to the other breeds and disciplines about the great work Grayson does. 4 Star Horse Trailers, affixed Grayson decals to the horse trailers they sold at the Congress as well as having promotional items at their booth.

Bridleplates.com has become the main supplier of our memory bracelets for our Tribute giving program and a cheerleader for Grayson at many multi-breed and discipline events in the future.

NATIONAL HORSE SHOW

The CP National Horse Show returned to Lexington, Kentucky for an exciting six days of equestrian competition the first week of November 2017. The event showcased professional and amateur riders and featured \$810,000 in total prize money.

Grayson sponsored Barn Night, which is a fun-filled event to unite all competitors who participate at NHS. Open to all local barns, equestrian teams, or groups of friends who simply love horses, registered Barn Night participants enjoyed all of Friday night's festivities for free.

Prizes were awarded at the end of the night to the Largest Group in Costume, Best Group Spirit, and Best Group Costume.

Grayson contributed the "Share the Wins" Package which included a Horse Country Farm Tour, a framed print of 1997 Kentucky Derby and Preakness Stakes Winner Silver Charm, a Kentucky Derby Winner Orb halter, and a Top Jock Tack Boxes Gold Edition Saddle Rack.

Pictured below is Director of Development, Holly White and the winner's of the Best Group Spirit Award "Ray of Sunshine"!





Kentucky Initiative

We thank the following participants for their support:

American Assn. of Equine Practitioners	Keeneland
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Airdrie	Klein Family Foundation
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Hallway Feeds	Stonereath Stud
Lucy Hamilton	Stonestreet
Hinkle Farms	WinStar
Indian Creek	Winter Quarter
Juddmonte	

If you would like to see your name here and be a part of the Kentucky Initiative too, please contact Jamie Haydon at (859) 224-2750 or Jhaydon@jockeyclub.com.



Belmont Charity Celebration



Saratoga Golf



WinStar Giving Tuesday



Kentucky Downs Research Day

**Thanks to all
our Event
Sponsors and
Participants
for a great
2017!**