

# Grayson-Jockey Club Research Foundation

*...funding research to build better equine health since 1940*

## 2018 Annual Report

# Results

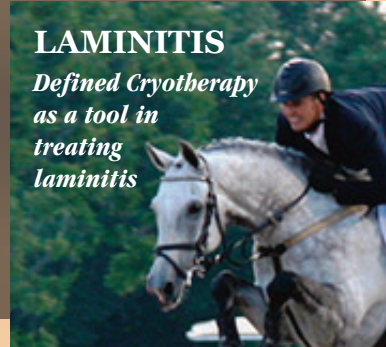
## BREEDING

*Increased survival rate in foal pneumonia patients*



## LAMINITIS

*Defined Cryotherapy as a tool in treating laminitis*



## RESPIRATORY

*Funded study showing the benefits of box stall shipping*



## EHV

*Established best practices to control herpesvirus outbreaks*



## COLIC

*Developed post treatment therapies for surgical patients*



## MUSCULOSKELETAL

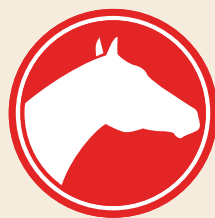
*PET Scan diagnostics for subcondral bone damage*



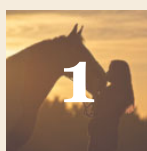
Research is the key to build better, healthier horses, and there is no better way to demonstrate that point than with results. Each year funded research focuses on both the impact and the quality of the science for a wide range of equine health issues.

Here are just a few specific ways Grayson-funded research has impacted equine athletes.

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# Directors & Officers

## Board of Directors



Dell Hancock  
*Chairman*



A. Gary Lavin, VMD  
*Vice Chairman*

Rick Arthur, DVM

Perry Bass

Larry R. Bramlage, DVM

Charlsie Cantey

Adele B. Dilschneider

Donald Dizney

William S. Farish Jr.

Lucy Young Hamilton

Joseph W. Harper

Stuart S. Janney III

Kevin Lavin

Braxton Jones Lynch

Leverett Miller

John M. B. O'Connor

John C. Oxley

Hiram C. Polk, MD

Daisy Phipps Pulito

Geoffrey Russell

Joseph V. Shields Jr.

Virginia Guest Valentine

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## Officers & Staff

Edward L. Bowen  
President

Jamie S. Haydon  
Vice President

Resia L. Ayres  
Secretary, Operations Manager

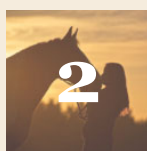
Laura Barillaro  
Treasurer

Holly E. White  
Director of Development

Shannon Kelly  
Development Manager

Johnny Mac Smith, DVM  
Veterinary Consultant

Nancy C. Kelly  
Consultant



# History

The forerunner of today's Grayson-Jockey Club Research Foundation reflected concerns of an era now passed, and yet the aims of the founders are as applicable today as they were at that time. In 1940, a number of leading sportsmen had been discussing for years a method of supporting research into the health and welfare of the horse. Admiral Cary Grayson was connected to some of the formative stages which led eventually to the establishment of the equine research foundation named for him. The American Thoroughbred Breeders Association launched a campaign to raise \$100,000. The Jockey Club, under direction of Mr. William Woodward Sr., was among the initial respondents, pledging 20% of the total. The Grayson Foundation became a reality in 1940, with Jock Whitney serving as the initial president.



The first grant was made before the year was over, a \$1,000 donation to the University of Pennsylvania Veterinary School to continue its work on periodic ophthalmia. In 1940, the horse and mule were still deeply involved in military defense, and the scope of the Grayson Foundation's efforts went far beyond the Thoroughbred, to all breeds, although the impetus came from leaders in Thoroughbred racing. Early in its history, the Grayson Foundation sought to disperse \$100,000 annually in grants to specific research projects. Its success in this goal resulted in support for a number of projects which represented steps forward, among them being the development of vaccines against Equine Viral Arteritis and herpesvirus infections, determining causes of viral abortions leading to development of the most effective vaccine yet developed, and influencing estrous cycles in mares to increase fertility.

The Jockey Club created The Jockey Club Research Foundation in 1984, and five years later it was merged with Grayson, to be known since then as the Grayson-Jockey Club Research Foundation (GJCRF, the Foundation). Grayson had a half-century background in research matters, and The Jockey Club had more wherewithal financially. In recent years the combined foundation has been able to disperse more than \$1 million annually in grants.



During the 1990s, three gifts of remarkable generosity were instrumental in enhancing the success of the Foundation in fulfilling its mission. In 1991, the Robert J. Kleberg and Helen C. Kleberg Foundation donated \$2 million

to Grayson-Jockey Club Research Foundation. Mr. Kleberg had studied genetics and as head of King Ranch developed the Santa Gertrudis breed of cattle. He also was instrumental in development of the American Quarter Horse, and the many excellent Thoroughbreds he bred included 1946 Triple Crown winner Assault.

In 1993, the Foundation received another major gift when Paul Mellon donated the \$1 million bonus that his Kentucky Derby winner Sea Hero won in the Chrysler Triple Crown Challenge.

Mr. Mellon requested that double that amount be raised in response, and this endowment drive was successfully concluded during the 1995-96 fiscal year. The \$1 million was double matched, as members of The Jockey Club and other contributors donated more than \$2 million.

In 1999, Mr. Mellon passed away leaving \$2.5 million to the Foundation's endowment. In 2000, the Foundation created the Rokeby Circle as the designation for those who contribute \$10,000 or more in a given year. Rokeby is the name of Mr. Mellon's beloved Virginia estate.



Drs. Gary Lavin and Larry Bramlage reorganized the Foundation's process of evaluating grants in 1999. Instead of having separate committees of academicians and practicing veterinarians, a single Research Advisory Committee ("RAC") was created. The RAC includes 32 individuals representing various research specialties and veterinary practices from across North America. Each year, the RAC convenes in January to evaluate all proposals submitted by the research community. The RAC spends three days poring over the projects and rates them top to bottom, recommending the best to the board of directors. The board then meets to determine how many projects can be funded in that year.

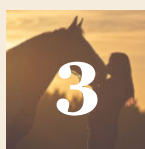
In 2004, The Oxley Challenge was initiated. Under the direction of Foundation board member John C. Oxley, his family's Oxley Foundation pledged \$1 million over four years contingent on the Foundation raising a like amount from new income sources. The Foundation was successful in that match, and so received \$250,000 from the Oxley Foundation in each of four years.

In collaboration with The Jockey Club, the Foundation coordinated and underwrote the first Welfare and Safety of the Racehorse Summit ("Summit") in 2006. That meeting, and a second gathering of industry experts in 2008, generated a number of recommendations which the industry has embraced to a large extent. The Jockey Club's Thoroughbred Safety Committee endorsed recommendations of the Summit, and the National Thoroughbred Racing Association's race track accreditation program is based in part on those recommendations. Also, the Summit helped organize the Equine Injury Database™ which is designed to provide the industry much needed epidemiological analysis of trends, aimed at improving injury rates nationally. All the Summits have been held at Keeneland in 2010, 2012, 2014, 2015, 2016 and 2018.

Since 1983, Grayson-Jockey Club Research Foundation individually provided more than \$26.4 million to fund a total of 358 projects at 43 universities in North America and overseas.



**Grayson-Jockey Club  
Research Foundation**





# Year in Review

Since 1940 Grayson-Jockey Club Research Foundation has been a leading, non-profit charitable organization that any horse lover can join. It is committed to the advancement of horses of all breeds by funding the very best veterinary research at many universities. The following are some of the highlights in 2018 for the foundation.

## JANUARY- FEBRUARY

Grayson was the proud sponsor of the 2018 United States Pony Club Research Project Fair. GJCRCF committed to sponsoring the Fair again in 2019, continuing to encourage young horse enthusiasts to learn more about horse health and research.



The Research Advisory Committee's annual meeting was held in Fort Worth, TX, for the evaluation of 66 grants applications submitted for funding consideration in the 2018 cycle. The GJCRCF board of directors reviewed the RAC recommendations and selected the grants to be funded.

## MARCH

GJCRCF notified grant recipients and announced the new projects to be funded in 2018, as well as funding for all projects entering the second year of research. The Storm Cat Career Development Award and the Elaine and Bertram Klein Development Award winners were also announced.



## APRIL-MAY

Spendthrift farm partnered with the Foundation on "Help A Horse" day, generously donating a lead gift of \$25,000, along with a stallion show and a chance to meet the recently retired champion race mare Beholder.

GJCRCF was a sponsor of the 2018 Land Rover Kentucky Three Day event as part of the outreach to all breeds and disciplines.



## JUNE

The Belmont Stakes Charity Celebration featured the presentation of the Dinny Phipps Award, recognizing support of equine health. The 2018 winner was Frank Stronach.



The Eighth Welfare and Safety Summit was held at Keeneland in Lexington, KY. This Summit touched on many racing issues and included a focus on sport horse careers for off-track Thoroughbreds.

## JULY



The Foundation participated in "Hats Off Day" at the Kentucky Horse Park, hosted by Rood and Riddle Equine Hospital. The event annually highlights several equine breeds and disciplines and includes a Grand Prix event.

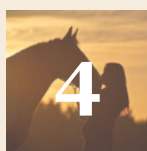
The GJCRCF annual members meeting was held at the Thoroughbred Club in Lexington.

## AUGUST

GJCRCF held the 18th Annual Charity Golf Tournament at Saratoga Springs National Golf Club, which was one of the best attended golf events in the last few years.



The Foundation was a sponsor of United States Equestrian Foundation Pony Finals, promoting awareness of our Junior Membership program.



## SEPTEMBER

For the fifth year Kentucky Downs sponsored the GJCRF Day at Kentucky Downs. The race sponsorships designated for the foundation brought in \$6,000.



The Elizabeth Locke Jewelry Show was held at Keeneland Library during the September Sales with a percentage of all proceeds donated to GJCRF.

Grayson debuted the GJCRF branded jump at the Thoroughbred Incentive Program and New Vocations Champion Horse show.



Work continued on a video in which board member Charlsie Cantey and Veterinary Consultant Dr. Johnny Mac Smith explain in detail the process of grant evaluations. The video relates to how the process has gained GJCRF recognition as a leader in both the scientific and equine worlds in the efficient use of research dollars.

## OCTOBER

During the first week of October, the Foundation received 53 grant applications for funding consideration in the 2019 grant cycle. Besides applications from the USA, applications were also received from Australia, Canada, the United Kingdom, Ireland, Israel, Italy and the Netherlands.

Grayson sponsored the “Thoroughbred Makeover” at the Kentucky Horse Park, celebrating the Thoroughbred breed performing in a variety of disciplines.



Hagyard Equine Medical Hospital hosted the first Fall Handicapping Cocktail Party, kicking off the Keeneland meeting and other key pre-Breeders' Cup races. Proceeds benefited the Foundation.

The American Quarter Horse Association Congress was held in Columbus, OH., and the Foundation sponsored the Youth Hunter Under Saddle (11 & under) and Youth Western Pleasure (11 & under).



GJCRF veterinary consultant, Dr. Johnny Mac Smith spoke at the AQHA Lecture Series on “The top 5 things you need to know about EHV-1: Preventing an outbreak at a show or sale near you!”

Chairman Dell Hancock discussed the importance of taking care of all horses at Equestricon, the second annual conference of its kind, that was held prior to the Breeders' Cup.

## NOVEMBER-DECEMBER

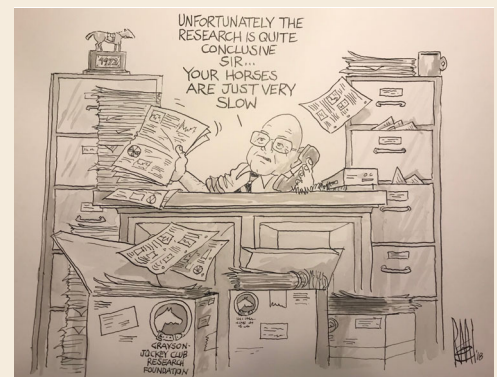
The Foundation was a sponsor of the National Horse Show at the Kentucky Horse Park and competed in the Bluegrass Charity Benefit, and was awarded with \$6,000 as the charity with the second most attendees on Friday, Nov. 2<sup>nd</sup> for the \$50,000 National Horse Show Hunter Classic.

Equestrian Living magazine published a feature article on the Foundation - “Helping Horses of All Breeds.”

Veterinary Consultant Dr. Johnny Mac Smith spoke about research at the Thoroughbred Owner Conference.

The end of the year brought the retirement of Edward L. Bowen after nearly 25 years as president of Grayson. Jamie Haydon succeeded him as president. Haydon's 15 years within

The Jockey Club included managing Industry Initiatives and close coordination with GJCRF and organization of the Welfare and Safety of the Racehorse Summits.



# Research Advisory Committee



The Research Advisory Committee evaluates research proposals and advises the Foundation's Board of Directors on the basis of the needs of the industry and scientific quality of each project. For the 2018 grants allocation, the committee was comprised of the following persons who served the Foundation without compensation.

## Chairman

### **Stephen Reed, DACVIM**

*Internal Medicine & Shareholder, Rood & Riddle Equine Hospital;  
Emeritus Professor, The Ohio State University and  
Adjunct Professor, Gluck Center, University of Kentucky  
Rood & Riddle Equine Hospital • Lexington, KY  
Graduate - The Ohio State University*

## Consultant

### **Johnny Mac Smith, DVM**

*Founding Partner  
Peterson & Smith Equine Hospital • Ocala, FL  
Graduate - Auburn University*

## Members of the Board of Directors

### **Rick Arthur, DVM**

*Equine Medical Director  
California Horse Racing Board • Sierra Madre, CA  
Graduate - University of California, Davis*

### **Larry Bramlage, DVM, MS, DACVS**

*Surgeon and Shareholder  
Rood & Riddle Equine Hospital • Lexington, KY  
Graduate - The Ohio State University*

### **A. Gary Lavin, VMD**

*Private Practice  
Goshen, KY  
Graduate - University of Pennsylvania*

### **Amanda Adams, DVM, PhD**

*Immunologist, Gluck Equine Research Center  
University of Kentucky • Lexington, KY  
Graduate - University of Kentucky*

### **Scott Bailey, DVM, DACT**

*Associate Professor, Theriogenology  
North Carolina State University • Raleigh, NC  
Graduate - Kansas State University*

### **Jennifer Barrett, DVM, PhD, DACVS, ACVSMR**

*Theodora Ayer Randolph Professor of Equine Surgery  
Virginia Tech, Marion duPont Scott Equine Med. Center • Leesburg, VA  
Graduate - Cornell University*

### **Warwick Bayly, BVSc MS PhD DACVIM**

*Internal Medicine and Exercise Physiology  
Washington State University • Pullman, WA  
Graduate - Washington State University*

### **Alicia Bertone, DVM, PhD, DACVS, ACVSMR**

*The Trueman Chair in Equine Clinical Medicine & Surgery  
The Ohio State University • Columbus, OH  
Graduate - Cornell University*

### **Jeff Blea, DVM**

*Racetrack Practitioner  
Von Bluecher, Blea, Hunkin Inc. • Sierra Madre, CA  
Graduate - Colorado State University*

### **Daryl Bonder, DVM**

*Private Practice Equine Surgery and Sports Medicine  
Toronto Equine Hospital • Toronto, ON Canada  
Graduate - Ontario Veterinary College, University of Guelph*

### **Etta Bradecamp, DVM, Dipl. ACT, Dipl. ABVP**

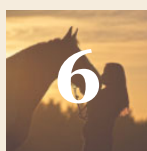
*Theriogenology and Equine Practice  
Rood & Riddle Equine Hospital • Lexington, KY  
Graduate - Auburn University*

### **Steven Brinsko, DVM, PhD**

*Professor & Associate Department Head for Academic Programs,  
Theriogenologist  
Texas A & M • College Station, TX  
Graduate - University of Florida*

### **Todd Brokken, DVM**

*Private Practice  
Von Bluecher, Blea, Hunkin DVMs • Sierra Madre, CA  
Graduate - University of Minnesota*





**Michele Coleman, DVM, ACVIM, PhD**

*Epidemiology, Infectious Disease, Clinical and Research*  
Texas A & M • College Station, TX  
Graduate - University of Georgia

**Laurent Couteil, DVM, PhD**

*Professor and Director of Equine Research*  
Purdue University • West Lafayette, IN  
Graduate - Ecole Nationale Vétérinaire d'Alfort, France

**J. Barry David, VMD, PhD, DACVIM**

*Associate*  
Hagyard Equine Medical Institute • Lexington, KY  
Graduate - University of Pennsylvania

**Elizabeth Davis, DVM, PhD, DACVIM**

*Professor and Section Head, Equine Medicine & Surgery*  
Kansas State • Manhattan, KS  
Graduate - University of Florida

**Carrie Finno, DVM, PhD, DACVIM**

*Assistant Professor and Researcher*  
University of California, Davis • Davis, CA  
Graduate - University of Minnesota

**Kelsey Hart, DVM, PhD, DACVIM (IAIM)**

*Associate Professor, Large Animal Internal Medicine*  
University of Georgia • Athens, GA  
Graduate - Cornell University

**Scott Hay, DVM**

*Private Practice*  
Teigland, Franklin and Brokken • Fort Lauderdale, FL  
Graduate - Kansas State University

**Jorge Hernandez, DVM, MPVM, PhD**

*Epidemiologist- Disease Diagnostics*  
University of Florida • Gainesville, FL  
Graduate - University of Baja California

**Susan Holcombe, VMD, MS, PhD, DACVS, DACVECC**

*Professor*  
Michigan State University • East Lansing, MI  
Graduate - University of Pennsylvania

**Christopher Kawcak, DVM, PhD, DACVS**

*Professor of Orthopedics*  
Colorado State University • Fort Collins, CO  
Graduate - Colorado State University

**Heather Kynch, DVM, PhD, DACVCP**

*Associate Professor of Clinical Veterinary Pharmacology*  
University of California, Davis • Davis, CA  
Graduate - University of California- Davis

**Ernie Martinez, DVM**

*Private Practice*  
Hagyard Medical Institute • Lexington, KY  
Graduate - Oklahoma State University

**Michael Mienaltowski, DVM, PhD**

*Research Associate*  
University of Florida • Tampa, FL  
Graduate - Michigan State University

**Peter Morresey, BVSc, MACVSc, DACVIM, DACT**

*Private Practice*  
Rood & Riddle Equine Hospital • Lexington, KY  
Graduate - Massey University

**Margaret Mudge, VMD, DDACVS, DACVECC**

*Associate Professor*  
The Ohio State University • Columbus, OH  
Graduate - University of Pennsylvania

**Heidi Reesink, VMD, ACVS, PhD**

*Comparative Biomedical Sciences Researcher*  
*Former Storm Cat Award Recipient*  
Cornell University • Ithaca, NY  
Graduate - University of Pennsylvania

**Louise Southwood, BSc(Vet), BVSc, MS, PhD**

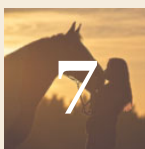
*Associate Professor*  
University of Pennsylvania • Kennett Square, PA  
Graduate - University of Sydney

**Ramiro Toribio, DVM, MS, PhD, ACVIM**

*Clinician/Researcher, Endocrinology and Internal Medicine*  
The Ohio State University • Columbus, OH  
Graduate - Universidad Nacional de Rio Cuarto (Honors)

**Regina Turner, VMD, PhD**

*Theriogenologist*  
University of Pennsylvania • Kennett Square, PA  
Graduate - University of Pennsylvania



# Funded Projects in 2018

## Thoroughbred Sales Radiology-Ultrasonography Study

*C. Wayne McIlwraith, Colorado State University*

This study will improve the industry's understanding of the significance of sesamoiditis, ultrasonographic suspensory branch changes, and stifle lucencies in sales yearlings and two-year-olds.



## Underlying Cause Of Recurrent Exertional Rhabdomyolysis

*Stephanie Valberg, Michigan State University*

This grant reviews how stress-induced modification to the skeletal muscle calcium release channel forms the basis for tying up in thoroughbreds and will pinpoint a target for the development of effective new treatments.

## Firocoxib Properties In Equine Pregnancy & Placentitis II

*Margo Macpherson, University of Florida*

This project should provide a fundamental step toward determining if specific drugs (including firocoxibs) are performing expected functions, such as resolving inflammation in pregnancies threatened by placentitis.



## Effects Of Low-Dust Forage On Lung Health Of Athletic Horses

*Laurent Couetil, Purdue University*

This study seeks to provide a non-pharmaceutical solution to the widespread problem of equine asthma by evaluating the benefits of low-dust forage for horses engaged in athletic activity.

## Investigating Metabolic Stress And Viral Hepatitis

*Sabine Mann, Cornell University*

This grant will study metabolic pathways and hepatic viral infection to find a relationship with maladaptation to training syndrome/high Gamma-glutamyl transferase (GGT) to help improve the health and performance of race horses.

## Novel Analgesic Combination In Horses

*Alonso Guedes, University of Minnesota*

This grant works on developing a medication strategy for joint inflammation/pain that can provide pain relief as well as help protect the joint cartilage from damage caused by chemical mediators of inflammation.

## Ampk Agonists And Insulin Dysregulation In Horses

*Teresa Burns, The Ohio State University*

This project directly impacts the treatment of equine metabolic syndrome by assessing the efficacy of two drugs, metformin and acetylsalicylic acid, in the treatment of equine insulin dysregulation.

## Host Factors Involved In EHM Pathogenesis And Latency

*Gisela Soboll Hussey, Michigan State University*

This project works on the development of tools to protect horses from EHV-1 infection and compare the immune responses in both young and old horses to identify the mechanisms causing clinical Equine Herpes Myeloencephalopathy.

## Unraveling Complex Traits By Defining Genome Function 2

*Carrie Finno, University of California, Davis*

This study will develop an atlas of gene regulation in the horse.



## Development Of Limited View 3D Imaging

*Chris Kawcak, Colorado State University*

The goal of this grant is to develop a point-of-care, 3-dimensional imaging technique that can be used to better characterize and prevent injuries in racehorses.

## Epidemiology Of Drug-Resistant R. Equi At Horse Farms

*Kelsey Hart, University of Georgia*

This project will determine if isolates of *Rhodococcus equi* highly resistant to antibiotics are widespread at horse breeding farms in Kentucky.

## CONTINUING PROJECTS

### Endocrinopathic Laminitis: Pathophysiology And Treatment

*James Belknap, Ohio State University*

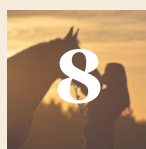
This study will determine if continuous digital hypothermia is effective and therefore indicated in the management of endocrinopathic laminitis, the most common form of the disease.

### Platelet Lysate Therapy In Infectious Arthritis

*Lauren Schnabel,*

*North Carolina State University*

This grant examines the antibacterial properties of platelets to treat joint infections in horses more effectively than conventional therapies, with the goal of reducing morbidity and mortality.



## Predicting The Risk Of Equine Fatal Injury During Racing

*Tim Parkin, University of Glasgow*

This project will use the Equine Injury Database to better predict and identify horses at greatest risk of fatal injury during racing and provide measures to further reduce the number of horses dying on North American racetracks.



## Evaluation Of Kisspeptin And Pregnant Mares

*Christianne Magee, Colorado State University*

This grant will help to gain insight on how kisspeptins are involved in equine pregnancy and if they can serve as a biomarker for pregnancy compromise.



## Cytotoxic T-Cell Immunity To Equine Herpesvirus Type 1

*Doug Antczak, Cornell University*

This research will develop critically needed knowledge about how the horse immune system responds to equine herpesvirus type 1 vaccination and infection.

## Bone Marrow Mononuclear Cells For Equine Joint Therapy

*Linda Dahlgren, Virginia Maryland CVM*

The results from this study will pave the way to investigate a new cell therapy from equine bone marrow as a targeted regenerative therapy for horses suffering from arthritis.

## Host-directed Control of R. equi Foal Pneumonia- Part II

*Angela Bordin, Texas A&M University*

This grant proposes 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.



## 2018 CAREER DEVELOPMENT AWARDS

*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. It has been underwritten annually by Mrs. Lucy Young Hamilton, a Grayson-Jockey Club Research Foundation board member whose family stood the champion stallion Storm Cat at Overbrook Farm. In 2018 the award winner was:*

### Dr. Stephanie Bond- University of Calgary

*Airway Inflammation: On Pathogenesis and Performance*

The selection process has resulted in the recommendation of Dr. Stephanie Bond as recipient of the Storm Cat Career Development Award for 2018. Statement by Dr. Renaud Leguillet, Calgary Chair in Equine Sports Medicine: "Dr. Bond has been awarded an Eyes High II DVM Graduate Recruitment Scholarship ... This program seeks to award scholarships to candidates deemed to be highly accomplished and whose potential for research excellence is judged to be outstanding ... The Storm Cat Award is intended to provide supplemental funds for graduate student development [and] would be entirely used as a salary supplement for Dr. Bond. This has been agreed by the Associate Dean of Graduate Education at University of Calgary Veterinary Medicine."



*The Elaine & Bertram Klein Development Award is a competitive program intended to promote development of promising investigators by providing a one year salary supplement of \$15,000. This program is restricted to one award per year and is named in honor of Elaine & Bertram Klein. The grant is funded by the Klein Family Foundation. In 2018 the award winner was:*

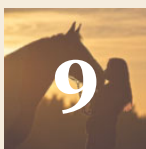
### Jessica M. Gilbertie- North Carolina State University

*Platelet Lysate Therapy In Infectious Arthritis*

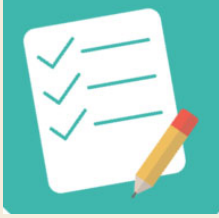
The selection process has resulted in the recommendation of Dr. Jessica Gilbertie for the The Elaine and Bertram Klein Development Award of 2018. As is often the case, Dr. Gilbertie's studies already have touched different institutions. Although she is applying via North Carolina State University, the following recommendation comes from the renowned Dr. Dean Richardson of New Bolton Center, University of Pennsylvania:



"This letter confirms my support for Dr. Jessica Gilbertie submitting a revision of the grant proposal entitled 'Platelet-rich Plasma Therapy in Infectious Arthritis' with Dr. Lauren Schnabel at North Carolina State University's College of Veterinary Medicine. Dr. Gilbertie was largely responsible for the preliminary data and study design with Dr. Thomas Shaer, who will be serving as co-investigator. Dr. Gilbertie will be continuing her research on the antimicrobial properties of platelets to support her PhD thesis in Dr. Schnabel's laboratory."



# The Cycle of a Grant

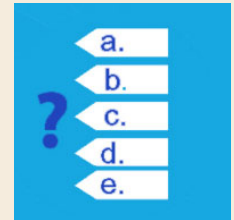


## Application

Since 1999 the Foundation has funded 241 grants, averaging \$1,000,000 annually in awards for the last five years. The average amount funded during the past five years has been \$111,600 per grant. For 2018, the Foundation received 52 applications from 33 different institutions and 10 countries. All applicants must comply with the regulations pertaining to animal use in the proposed study, which is the INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE (IACUC) who must review and approve the research project prior to funding.

## RAC Scoring

The Research Advisory Committee (RAC) is a mix of 32 equine scientists and practitioners capable of judging the merit of the most sophisticated proposals with clinical specialists both from university clinics and private practices. The group includes representation of the major clinical disciplines such as surgery, internal medicine, and reproduction, along with the academic disciplines of pathology, immunology, microbiology, etc, with geographic diversity to reflect the importance of various local problems.



There is a multi-layered review process for each grant starting with the identification of experts on the subject matter and potential conflicts of interests within the RAC. Each grant is initially assigned four reviewers. The reviewers will individually score the grant based on: (a) scientific approach, (b) overall impression, (c) impact, (d) feasibility and (e) budget. Each grant is scored numerically and given a written review. The RAC members access and read all applications prior to the review meeting.



## Final Review

During the RAC meeting, the essential activities are to discuss each proposal with the entire committee and rank the order for all acceptable proposals. The group endeavors to reconcile mean scores between specialties to assure that one discipline deviate significantly than another discipline. Once grants are ranked numerically to assure that each grant is ranked correctly for its strengths and weaknesses, each grant is then compared to its neighboring grant. If a grant is moved in the ranking it must be reassessed at each placing, compared to its higher and lower neighbor, to assure that the placing is correct within the consensus of the group.

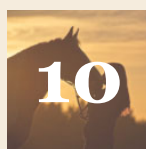
## Funding

The recommendations of the RAC are presented to the board of directors for final review, with announcement of awards, typically near the first week of March. The funding cycle commences April 1, with three equal payments made through the year.



A timeline is incorporated into the application document so that all investigators are aware of the schedule. The applicant in the original application predicts a schedule of progress. A progress statement is required on November 1 of the original funding year so that any problems with the investigation are identified early and adjustments made. Satisfactory progress must be documented in order to continue receiving funding.

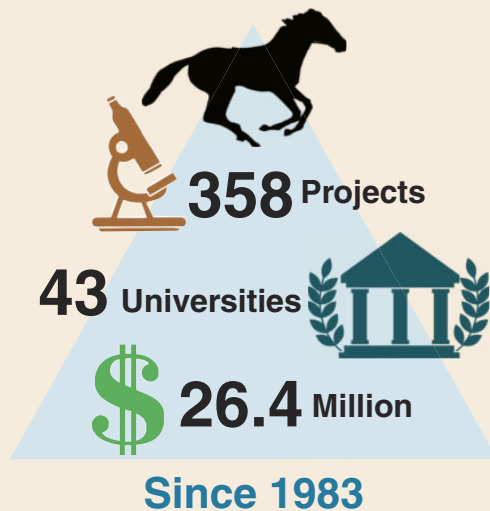
Second year funding must be approved by the Foundation board following recommendations from the GJCRF office.





# Focused Research

**Each year funded research focuses on the impact and the quality of the science for a wide range of equine health issues.**



- Respiratory and Airway Health
- Stem Cell Therapy
- Foal Pneumonia
- Placentitis
- Herpesvirus
- Equine Bone Regeneration
- Digital Hypothermia
- Colic Treatment
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- Safe Racing Surface Characteristics

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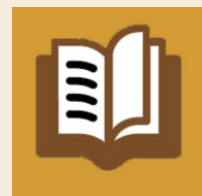
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## **Publications**

*To date, Grayson funded research has resulted in the publication of 297 scientific papers in peer-reviewed journals. All funded projects are scheduled for additional publications, including those still in with ongoing research.*



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*In honor of the generosity to the Foundation by the late Paul Mellon, GJCRF designates inclusion in the Rokeby Circle for those donors at the \$10,000-plus level within the year. The honor is named for Rokeby Farm, Mr. Mellon's estate in Virginia.*

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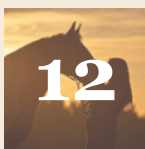
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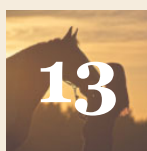
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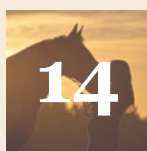
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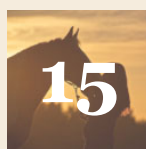
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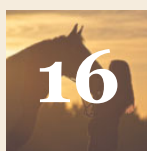
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The Mary Oxley Foundation  
Oxo Equine LLC  
Dr. & Mrs. Scott E. Palmer  
Catherine Parke  
Mary Charlotte H. Parr  
Rodes S. Parrish  
Parrish Hill Farm, Inc.  
Mr. & Mrs. William Parsons Jr.  
Patricia Pavlish  
Michele Peters  
George Pine  
Dr. Hiram C. Polk Jr.  
Carl Pollard  
Amanda Pope,  
John William Pope Foundation  
Doug Pratt  
Daisy Phipps Pulito  
R. Alex Rankin  
Dr. Stephen Reed  
Reeves Thoroughbred Racing  
Barbara Rehbein  
Dr. J. D. Richardson  
Louise & Leonard Riggio  
Maggie Rikard  
Tom & Missy Robbins  
Walt Robertson  
J. Kirk & Judy Robison  
William S. Roebing  
Rood & Riddle Equine Hospital  
Andrew Rosen  
Geoffrey G. Russell  
Cooper Sawyer  
Mr. & Mrs. Peter G. Schiff  
Michael Schmitt  
Mr. & Mrs. Barry Schwartz  
Julie Scofield  
Mr. & Mrs. Edgar Scott Jr.  
Mr. & Mrs. Alexander Scovil  
Secretariat Foundation Inc.  
Fred Seitz,  
Brookdale Farm LLC  
Joe Seitz,  
Brookdale Sales, Inc.

Mr. & Mrs. Jonathan Sheppard  
Mrs. Joseph V. Shields Jr.  
Dr. Frederick C. Shiery  
James Shircliff  
Nancy C. Shuford  
Lenny Shulman  
Samantha Siegel  
Mr. & Mrs. Michael Simpson  
Mr. & Mrs. A. J. C. Smith  
Dr. Johnny Mac Smith  
Michael E. Smith  
Speedway Stables  
Spendthrift Farm  
Hans J. Stahl  
Elizabeth K. Stanley  
Stoll Keenon Ogden, PLLC  
Stonehedge LLC  
Stonereath Stud  
George Strawbridge Jr.  
John Stuart  
Mr. Stuart Subotnick  
Summer Wind Equine  
Julie A. Tackett  
Taylor Made Sales Agency  
Peter Tenbeau  
Stella Thayer, Tampa Bay Downs  
The Maryland Jockey Club  
The McMichael Family Foundation  
Leslie Thomas  
William W. & Barbara L. Thomason Jr.  
Patricia Thompson  
William B. Thompson Jr.  
Three Chimneys  
Michael K. Tivnan  
Virginia Guest Valentine  
Mr. & Mrs. D. G. Van Clief Jr.  
Vincent Viola  
Mr. & Mrs. John T. Ward Jr.  
Charlotte C. Weber  
Cheryl A. Weeks  
Hester Whitecher  
Sandra Whitley  
Ian Wilkes  
William M. Backer Foundation  
David Willmot  
Peter S. & Michelle Willmott  
Woodland Foundation  
Susan Young  
Henry A. Zeitlin  
Arnold B. Zetcher

*At the end of 2018, membership stood at 294 compared to 293 at the end of 2017.*

*Names and addresses of members are maintained in the Foundation's offices at 821 Corporate Drive Lexington, Kentucky 40503.*





## Membership Levels:

Rokeby Circle	\$ 10,000
Platinum Circle	\$ 7,500
Gold Circle	\$ 5,000
Silver Circle	\$ 2,000
Patron	\$ 1,000
Supporting Member	\$ 500
Sustaining Member	\$ 200
Annual Member	\$ 100

## Tax Status of Grayson-Jockey Club Research Foundation

*Grayson-Jockey Club Research Foundation is exempt from Federal income tax under section 501(c) (3) of the Internal Revenue Code of 1986 (the "Code") as an organization operated exclusively for educational and scientific purposes. Contributions made to the Foundation are deductible by donors in computing their taxable income in the manner and to the extent provided by section 170 of the Code. Bequests, legacies, devices or transfers are deductible in computing the value of the taxable estate of a decedent for Federal estate tax purposes in the manner and to the extent provided by section 2055 of the Code. Gifts of property are deductible in computing taxable gifts for Federal gift tax purposes in the manner and to the extent provided by section 2522 of the Code. Provisions to approximately the same effect appear in the tax laws of most states.*



## **Grayson-Jockey Club Research Foundation**

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