

## UK Gluck Center Develops Novel EAV Test



ANNE M. EBERHARDT/THE HORSE

Stallions with the susceptible haplotype are at a higher risk of becoming carriers if they're infected with EAV.

The University of Kentucky (UK) Gluck Equine Research Center has developed a novel test to determine how likely stallions are to become long-term carriers of the equine arteritis virus (EAV).

Gluck Center faculty members Udeni Balasuriya, BVSc, MS, PhD; Ernie Bailey, PhD; and Peter Timoney, MVB, PhD, FRCVS, Frederick Van Lennep Chair in Equine Veterinary Science, created a test to determine the genetic basis for a specific haplotype (a group of genes inherited from one parent). A USDA Agriculture and Food Research Initiative grant funded their work.

Equine viral arteritis outbreaks can result in significant economic losses to the equine industry due to pregnancy loss in mares, death in young foals, and establishment of the carrier state in stallions. The virus is maintained between breeding seasons by persisting in the carrier stallion.

"It is gratifying to see how Drs.

Balasuriya and Bailey's work has led not only to a better understanding of the origin and development of this important disease, but also to a new test that can be used to identify those animals at risk for persistent infection," said David Horohov, PhD, chair of the Department of Veterinary Science, director of the Gluck Equine Research Center, and Jes E. and Clementine M. Schlaikjer Endowed Chair.

Stallions possessing the susceptible haplotype, consisting of four specific nucleotide changes in the CXCL16 gene, are more likely to remain long-term carriers of the virus in their reproductive tract than horses that possess the resistant haplotype. Stallions that are resistant and initially shed the virus in their semen were found, in most cases, to clear the virus from the reproductive tract within months of infection. Stallions possessing even one copy of the susceptible haplotype are at greater risk for becoming long-term EAV shedders.

"Since surgical castration can be resorted to in stallions that are

confirmed carriers of EAV, this test can help identify those horses that may spontaneously clear themselves of the virus, thus avoiding the loss of a valuable breeding animal," said Kathryn Graves, PhD, director of the Genetic Testing at Gluck, the Gluck Center's genetic testing laboratory.

In addition, the test indicates which horses have the susceptible haplotype and, therefore, are at higher risk for becoming carriers if infected with EAV. In these cases, owners and veterinarians can prevent infection and establishment of the carrier state through vaccination and appropriate management practices.

It is important to emphasize that all colts and stallions negative for EAV antibodies should still be vaccinated against the virus in accordance to the manufacturer's recommendations, irrespective of their genetic makeup for the CXCL16 gene.

The new test is available at Genetic Testing at Gluck for \$100, and the test can be done from a mane or tail sample. Find more information, including a submission form, at [www2.ca.uky.edu/gluck/AGTRL.asp](http://www2.ca.uky.edu/gluck/AGTRL.asp). **UK**

>Jenny Evans, MFA, is the interim executive director of the UK Gluck Equine Research Foundation and senior marketing and promotion specialist at the UK Gluck Equine Research Center.

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## "Beyond the Barn" Tour Displays Equine Industry Career Options

Krista Lea, MS, coordinator of the UK Horse Pasture Evaluation Program within the Department of Plant and Soil Sciences and an equestrian herself, has hired many equine science and management students as interns over the years.

In doing so, she said, she noticed a pattern in what careers those students were considering, along with a need for more information about opportunities available in the equine industry.

"We hire undergraduate students regularly each summer," Lea said. "Many are equine students that want to become veterinarians or trainers, yet none of them have ended up there. Those are both hard ways to make a living, and many students realize that they want more from life than 18 hours a day in a barn."

Lea said she was disappointed to learn that most students were not well-informed about the many other careers available within the equine industry, and wanted to help.

"I've seen so many struggle to find where they can have an impact on the industry they love so much," she said.

When Lea discussed this with Bob Coleman, PhD, director of undergraduate studies for the equine program and equine extension specialist, he agreed.

"Krista Lea had, like many of us, received numerous comments from students that indicated they did not understand the scope of possible career paths available," Coleman said.

Together, the pair decided to create an opportunity for equine students to become more educated about the broad variety of careers available to them. They drafted an idea for a careers tour, where students could be taken around the Lexington area to observe the workplaces and people that represent some of the many equine jobs that exist. To make the event happen, however, they needed to apply for a grant. They found the perfect fit in the Barnhardt Fund for Excellence Grant.

"Each year, the Barnhardt Fund for Excellence puts out an application," Lea said. "I got together with Dr. Coleman, and we brainstormed the idea, checked on a couple of prices and speakers, and wrote the grant up."

They received the grant money, and Lea began finalizing preparations for the event. She chose speakers from a broad spectrum of careers to showcase on the tour, from an event planner to a feed mill nutritionist to several graduate students.

"These speakers earned some kind of equine science or management degree and have gone into successful careers within the industry," she said. "They represented many career paths that some of our students may not have considered before."

Students from Georgetown College and Midway University, as well as UK, took part in the tour.

## Masthead

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Students toured McCauley's feed mill during the "Beyond the Barn" tour.



## “Beyond the Barn” Tour

The day started off at Keeneland Race Course, where attendees watched yearlings being prepared for the sales and horses breezing on the track while listening to advice from Keeneland employees Amy Owens, who works in communications, and Morgan Whitney, a recent UK graduate who now works in event planning.

The tour continued at McCauley’s Feed Mill, where David Longmire, a sales professional, and Amy Parker, MS, PAS, an equine nutritionist and UK alum, both spoke. Students took a tour of the mill, as well.

Then it was on to UK’s Maine Chance Farm, where students heard from Rachel Nelson, a UK equine alum and current employee of the farm clinic. Following Nelson’s talk, equine graduate students Ashley Fowler and Morgan Pyles spoke to participants. AnnMarie Kadnar, a recent UK equine alum and current graduate student in plant and soil sciences, also recounted her path to graduate school.

Finally, the tour traveled to the Kentucky Horse Park, where students heard from Erin Woodall, a U.S. Pony Club employee, and Davin Smith, who works for Neogen.

Throughout the day, students asked questions and engaged with each speaker. Everyone who toured said they were excited to learn about the different career options they could pursue.

Of what she hoped students took away from the tour, Lea said, “I hope that these students will begin to identify what is really important to them in a career and will work toward finding a situation that fits them. Some may still choose to become vets or trainers, and we need those, but we also need feed mill managers, event planners, accountants, communications professionals, sales reps, and graduate students.” **UK**

>Maddie Regis is a sophomore in UK’s Equine Science and Management undergraduate program and communications and student relations intern for UK Ag Equine Programs.



Attendees said they were excited to learn about about the variety of careers within the equine industry.



UNIVERSITY OF KENTUCKY PHOTOS

## Kentucky Faces Challenges With Alfalfa in 2016

Alfalfa has a tremendous ability to survive and grow under dry conditions, but summer 2016 was one of the wettest on record for much of Kentucky. As a result, the UK Plant Diagnostic Laboratory received a number of samples of diseased alfalfa, especially

from seedling stands, from producers.

The lab reported cases of water mold, root rot, and seedling blight (caused by *Aphanomyces*, *Phytophthora*, and other fungi) early this growing season. Normally, fungicides on coated alfalfa seed prevent most seedling diseases, but

this year’s wet and humid conditions appear to have overwhelmed the seed treatments in many fields.

Additionally, a tremendous amount of summer black stem has been reported over the past few months. This disease is not uncommon in Kentucky, but this year it showed up early and continued throughout summer.

The lab also identified cases of *Rhizoctonia* web blight, which is unusual and indicates very wet and humid conditions. Alfalfa has no genetic resistance to either summer black stem or *Rhizoctonia*, but good management normally allows the plant to survive these diseases. Some stands were so severely affected that they had to be replanted or will have to be taken out of production.

Experts believe the disease load during 2016 is a one-time event and the climate will return to more normal conditions in future years. **UK**

>Ray Smith, PhD, is a professor and forage extension specialist at UK.



Alfalfa can grow well under dry conditions, but this summer’s wet and humid conditions damaged a portion of Kentucky’s crops.

## Healthy Horse App Features More Horse Types and Uses Two Years After Debut

In 2013, researchers from the University of Minnesota (UM) and UK collaborated to develop the Healthy Horse smartphone app, designed to help owners better manage their horses' weights.

Two years after its initial release, the app has been downloaded 1,800 times and includes seven types of horses ranging from Arabians to stock horses and draft horses to Warmbloods, with different breeds included in each type. The group is working to include more breeds in the app, as well.

"The app started as part of a larger

equine metabolic study," said Bob Coleman, PhD, PAS, an associate professor in UK's Department of Animal and Food Sciences and extension horse specialist. "We were looking for a way to help horse owners gauge their horse's current body weight but also to give some guidance on ideal body weight. Because the mathematics are very complicated, this led to the development of the app."

Using the detailed diagram provided, owners can measure their horses and then enter the values into the app. The app then calculates the horse's current body weight and estimates ideal body weight. The owner can use those values to find reference points for what their horse should weigh, which is important information when determining the horse's nutritional needs, especially during a time when obesity is

Using detailed measurements, the app can calculate a horse's current weight, along with ideal weight.

becoming more prevalent in the equine population.

The calculations are based on a horse's weight at a body condition score of 5 on the 9-point scale. The data is derived from measurements of more than 1,200 horses, with more data being added as time and opportunity allows.

"When we first collected data, it was mostly stock-horse-based with a few other breeds in the mix," Coleman said. "When the app was released we had requests from breeds, such as the draft horses, to be included. In addition, we have been asked by the owners of Miniature Horses to add them."

The app is being updated continually, and new additions are expected in the near future.

For example, Coleman said Warmbloods—specifically horses used as hunters and jumpers—and draft horses were added in the most recent app release. Further, data has been collected on other breeds but not yet added to the app.

"While the app provides an estimate of both current body weight and ideal, I feel it gives horse owners a great place to start in the management of their horses," Coleman said.

The Healthy Horse app is compatible with both Apple and Android platforms at a cost of \$1.99.

Project contributors include Coleman; Krishona Martinson, PhD, associate professor at the UM Department of Animal Science; Molly McCue, DVM, Dipl. ACVIM, PhD, associate professor at the UM Veterinary Diagnostic Laboratory; Marcia Hathaway, PhD, professor at the UM Department of Animal Science; and Devan Catelano, MS, at UM Department of Animal Science. **UK**

>Taylor Pence, a senior marketing major at UK, is the marketing and communications intern at the UK Gluck Equine Research Center.

## GRAD STUDENT SPOTLIGHT

### PARVATHY THAMPI

**From: Kerala, India**

**Degrees and institutions where received:**

**BS in Veterinary Medicine, Kerala Agricultural University, India.**

**MS in Veterinary Pathology, Kerala Veterinary and Animal Sciences University, India**



After completing her bachelor of science in veterinary medicine, Parvathy Thampi discovered a passion for research, which prompted her to pursue a master's degree in veterinary pathology. She then became interested in cellular mechanisms of tissue repair in response to injury and joined the laboratory of James MacLeod, VMD, PhD, John S. and Elizabeth A. Knight Chair and professor of veterinary science at the UK Gluck Equine Research Center, in 2011 to pursue a doctoral degree and study articular cartilage.

Joint disease is one of the most common causes of lameness and can be career-ending for both equine and human athletes. Thampi's research focuses on understanding the mechanisms that limit joint cartilage's ability to repair; this inability to heal is why osteoarthritis is a progressive disease throughout life.

"In my doctoral research, I am studying the biology of equine interzone cells, a population of cells present during the early developmental stages of synovial joint formation in mammals, specifically focusing on how their proliferation and differentiation are regulated," Thampi said. "This research will hopefully advance our understanding of interzone cells as a potential cell-based treatment strategy for the repair of cartilage injuries."

Thampi's most valuable takeaway from the program is the value of effective communication and scientific thinking: "When faced with a scientific problem, you need to think critically, try to find solutions using all the resources available to you, and move forward," she said.

After completing her doctoral degree, Thampi plans to train as a postdoctoral scholar to gain more experience and pursue a career in research. **UK**

>Alexandra Harper, MBA, is the operations and communications coordinator for UK Ag Equine Programs.



## UK Gluck Center, Hagyard to Host 14th Mary Passenger Memorial Lecture

The UK Gluck Equine Research Center and Hagyard Equine Medical Institute will host the 14th Mary Passenger Memorial Lecture on Equine Medicine and Surgery Oct. 26 at 8:30 a.m. in the Gluck Center auditorium, in Lexington.

The schedule is:

8:30 a.m.	Welcome—David Horohov, PhD, UK Gluck Center
8:30 – 8:40 a.m.	<b>History of Mary Passenger Lecture</b> Walter Zent, DVM, Hagyard Equine Medical Institute
8:40 – 9:25 a.m.	<b>Equine Upper Airways: An Update</b> Norm Ducharme, DMV, MSc, Dipl. ACVS, Cornell University
9:25 – 10:10 a.m.	<b>Observation, Science, and Equine Lameness Diagnosis</b> Sue Dyson, MA, Vet MB, PhD, DEO, FRCVS, Animal Health Trust
10:10 – 10:55 a.m.	<b>Not The Cost of Doing Business—Injuries are Preventable</b> Susan Stover, DVM, PhD, Dipl. ACVS, University of California, Davis
10:55 a.m.	Closing Remarks—Horohov

Mary Passenger, VMD, was one of the first female equine veterinarians. After graduating veterinary school from the University of Pennsylvania in 1971, she moved to Lexington

and earned a position at Hagyard Equine Medical Institute, then known as Hagyard-Davidson and McGee Associates. Her time in Kentucky was cut short when she passed away from work-related injuries in 1974 at age 28.

The Mary Passenger Memorial Lecture Series began in 1986. The endowment fund for the initiation of the Mary Passenger Memorial Lecture on Equine Medicine and Surgery was established at UK by her parents, Dr. and Mrs. Richard Passenger, and a group of her friends and colleagues.

The fund is dedicated to providing continuing education to veterinarians specializing in the practice of equine medicine and surgery. Beginning in 2012, the lecture became an opportunity for Equine Research Hall of Fame inductees to speak about their work and achievements.

Past invited lecturers in the series include Dr. John S.E. David in 1988; Keith Betteridge, BVSc, MVSc, PhD, FRCVS, in 1990; Irwin Liu, DVM, PhD, in 1992; James Rooney, DVM, in 1994; Douglas Antczak, VMD, PhD, in 1996; Sue McDonnell, PhD, in 1998; Jonathan Hill, BVSc, PhD, Dipl. ACT, MACVSc, in 2000; Stephen Seager, MA, MVB, MRCVS, in 2002; John Bowen, BVetMed, FRCVS, Dipl. ACT, in 2004; W.R. (Twink) Allen, BVSc, PhD, ScD, DESM, MRCVS, in 2006; Eugene Lyons, PhD, and Stephanie Valberg, DVM, PhD, Dipl. ACVIM, ACVSMR, in 2012; and Ernie Bailey, PhD, and Elwyn Firth, BVSc, MS, PhD, Dipl. ACVS, in 2014. **UK**

>Jenny Evans, MFA, is the interim executive director of the UK Gluck Equine Research Foundation and senior marketing and promotion specialist at the UK Gluck Equine Research Center.



Dr. Norm Ducharme

Dr. Sue Dyson

Dr. Susan Stover

## THE GRASS GUIDE

### ORCHARDGRASS (*Dactylis glomerata*)

**Life cycle:** Cool-season perennial

**Native to:** Europe, North Africa, and parts of Asia

**Uses:** Pasture and hay

**Identification:** Leaf blades have a distinct line down the middle, bluish-green in color, seed-heads appear in dense clusters, flattened appearance at the base of the tiller

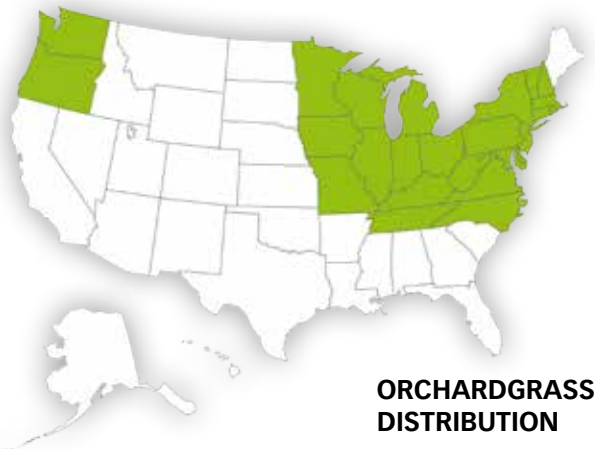
Orchardgrass is a relatively shade-tolerant, cool-season perennial that can provide high yield and forage quality under good management. It is well known as a desirable hay and pasture grass for horses.

Orchardgrass stands can thin with harsh winters or high summer temperatures. Avoid close grazing or cutting (under 3 to 4 inches) because it can weaken the stand and reduce regrowth. In northern states, orchardgrass stands are productive for four to five years, but this typically drops to three years in the southern part of the transition zone (e.g., Tennessee). **UK**

>Information provided by AnnMarie Kadnar, graduate student; Krista Lea, MS, coordinator of the UK Horse Pasture Evaluation Program; and Ray Smith, PhD, professor and forage extension specialist. All three are part of UK's Department of Plant and Soil Sciences.



(Top left) Orchardgrass often grows in bunches. (Top right) Orchardgrass leaves have a crease in the middle and are soft to the touch. (Bottom) Orchardgrass seedheads appear in dense clusters.



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*Dr. David Horohov, UK Gluck Center*

Pathogenic leptospires and how they adapt to the host during infection  
*Dr. Jarlath Nally, USDA*

Pathogen restriction and host specificity: insights from the human pathogen *Salmonella Typhi*  
*Dr. Jorge Galan, Yale University*

The pathogenic equine streptococci: on solving some of the puzzles  
*Dr. John Timoney, UK Gluck Center*

5 - 7 p.m. RETIREMENT RECEPTION  
with cocktails and hors d'oeuvres

RSVP to [jenny.evans@uky.edu](mailto:jenny.evans@uky.edu) by October 3

## UK Gluck Center to Host Mini-Symposium and Retirement Reception

The UK Gluck Equine Research Center will host a mini-symposium on "Understanding the pathogenic bacteria—how far have we come?" on Oct. 7 at Spindletop Hall in Lexington. A retirement reception will follow in honor of John F. Timoney, MVB, DSc, PhD, professor emeritus at the UK Gluck Center, who recently retired from the UK Department of Veterinary Science after 34 years.

Anyone interested in attending should RSVP to [jenny.evans@uky.edu](mailto:jenny.evans@uky.edu) by Oct. 3.

## UK College of Agriculture, Food and Environment Receives Record Number of Grant Awards

Researchers in the UK College of Agriculture, Food and Environment (CAFE) brought in a record number of grant awards from outside sources during the past fiscal year.

Grants totaled more than \$39.2 million in fiscal year 2016, which ran from July 1, 2015 to June 30. It is the most the college has ever received and is an increase of nearly \$3 million from fiscal 2015. It continues the steady increase in external grant awards for the college's researchers in the past several years. The award total includes grants that received first-time funding as well as those being funded for subsequent years.

"Our college continues to build on our tradition of providing a balance of basic and applied research to address challenges facing the region and state," said Rick Bennett, PhD, the college's

associate dean for research and director of the Kentucky Agricultural Experiment Station. "We maintain a statewide presence in agricultural, food, and environmental research, which are key components of Kentucky's economic future."

Awards included such diverse projects as a Centers for Disease Control and Prevention grant that seeks to help lower obesity rates in counties with a high number of obese adults and a grant from DuPont that explores how to increase poultry's digestion of amino acids, which could reduce their environmental footprint.

An award from the USDA Food and Nutrition Service funds the Rural Child Poverty Nutrition Center, which was established in 2015. Housed in the college's School of Human Environmental Sciences, the center is

led by Ann Vail, MS, PhD, director of the school and the project's lead researcher, and director Joann Lianekhammy, MS, PhD. Its mission is to improve coordination between nutrition assistance programs, which will in turn increase program participation and reduce childhood food insecurity in persistently poor communities. The center has awarded \$1.3 million in grants to 17 organizations in 12 states. Currently, members of those organizations are conducting research on barriers that prevent children from accessing nutritious food and participating in nutrition assistance programs. They are also developing partnerships with others in their communities to help them successfully implement their projects.

In another study, UK virologist Udeni Balasuriya, BVSc, MS, PhD, is leading a team of Gluck Equine Research Center scientists to find a way to stop the spread of equine arteritis virus, which causes high rates of abortion in mares,



## Grant Awards

death of young foals, and stallions to become carriers. Before they received the USDA National Institute of Food and Agriculture (NIFA) grant, researchers already had found a subpopulation of white blood cells that makes some horses more susceptible to becoming carriers. They also have shown that genetics play a role in whether horses have this susceptibility.

A team of researchers led by Jan Smalle, PhD, associate professor in the UK Department of Plant and Soil Sciences, found nanoparticles can easily extract flavonoids from plants. Flavonoids are plant-made chemicals that have many potential human health benefits. Until the Smalle lab finding, scientists had no easy way to extract them

from plants. Smalle and his team are now using their USDA NIFA grant to study how nanoparticles travel through the plant and whether this extraction process works on many different crops.

"We're proud of our landmark achievements in research this past year," Bennett said. "We look forward to our continued trajectory of securing external grants needed to conduct research, which will expand our fundamental and applied knowledge impacting the lives of Kentuckians in all parts of the state. Our outstanding research conducted by CAFE researchers with delivery through the Cooperative Extension Service, is a vital component of our state's economy." **UK**

>Katie Pratt is an agriculture communications specialist for the UK College of Agriculture, Food and Environment.

## Matt Koch named 2016 Friend of UK Ag Equine Programs

Some of the most valuable educational experiences for UK equine science and management undergraduate students occur outside the traditional campus classrooms. They happen in the barns and businesses that make up the equine industry and are taught by industry stalwarts like Matt Koch, co-owner of Shawhan Place in Paris.

Koch is an alumnus of the College of Agriculture, Food and Environment, advisory committee member for the college's equine programs, and longtime supporter of the program's educational mission. He was honored as the 2016 Friend of UK Ag Equine Programs Sept. 6 at Spindletop Hall, in Lexington. He was recognized for his years of multifaceted support of UK Ag Equine Programs, even before its debut in 2005, with a special emphasis on the impact he has had in multiple students' lives and careers. Many recognize him as a catalyst for and a part of many important milestones of the program.

When former student interns describe the impact he has had in their lives, the same themes surface: mentorship, guidance, and generosity in sharing his time and knowledge. Koch was recognized as Intern Supervisor of the Year at the same reception in 2015, nominated by alumna Courtney Schneider, who, after two internships and years of being mentored as an undergraduate student, is now a full-time employee with Shawhan Place.

"Matt took me under his wing the summer after my freshman year," Schneider said. "At the time, I knew I had a passion for horses and the Thoroughbred industry, but I had never had the opportunity to act on that passion. Throughout my college career, Matt continued to be a great role model for me. I stayed in touch with him and worked for him on and off and throughout all of the sales. He always made a genuine, conscious effort to make sure his interns had every opportunity to learn and do things they've never done before."

In addition to his role in undergraduate mentorship, Koch was recognized by the program for his leadership and advice.

"Matt's phone call is always one you want to take," said Dean Nancy Cox, MS, PhD. "He will have an idea for something new or a way to improve something we

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# UK Ag Equine Programs




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<sup>1</sup> Cortese V, Hankins K, Holland R, Syvrud K. Serologic responses of West Nile virus seronegative mature horses to West Nile virus vaccines. *J Equine Vet Sci.* 2013;33:1101-1105.

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## Matt Koch

are already doing. We are glad to have the advice and counsel of this great leader in the Thoroughbred industry.

"This award is for a friend, but Matt has become a key adviser to our program and has helped us find ways to prepare students for careers," she added. "He has also championed the need for a business approach to the equine industry in Kentucky and was one of the first to approach the university in support of the Kentucky Equine Survey of 2012."

Jill Stowe, PhD, past director of UK Ag Equine Programs and faculty member within the college's agricultural economics department, nominated Koch for the award.

"What makes UK Ag Equine Programs unique is that it is as broad as it is deep, as it encompasses teaching, research, and extension," said Stowe. "What makes Matt so unique is that he has provided significant support in each one of

the areas with the intent of making the program better. He works hard, is true to his word, and epitomizes what it means to be the backbone of the industry."

The Friend of UK Ag Equine Programs was created in 2005, when the program was called the Equine Initiative, to recognize a member of the public who had provided advocacy, funding, or other extraordinary support for the UK College of Agriculture, Food and Environment's equine programs, or a college or university employee who had generated an exceptional relationship with stakeholders that manifested into a new program, new advocacy success, or new resources for the program.

Past Friends of UK Ag Equine Programs include Bennie and Cheryllee Sargent, of Sargent Quarter Horses and coaches of the UK Equestrian Team, western division; Stuart Brown, DVM, a Lexington-based veterinarian specializing in equine reproduction at Haggard Equine Medical Institute; Norm Luba, executive director of the North



UNIVERSITY OF KENTUCKY

From left to right: Dr. Jill Stowe, Matt Koch, and Dr. Nancy Cox.

American Equine Ranching Information Council and current chair of the UK College of Agriculture, Food and Environment's Equine Advisory Committee; Dan Rosenberg of Rosenberg Thoroughbred Consulting; Northern Kentucky county extension agent trio Don Sorrell of Campbell County, Dan Allen of Kenton County, and Jerry Brown of Boone County; and David Switzer, former executive director of Kentucky Thoroughbred Association/Kentucky Owners and Breeders Association.

For more information about UK's Ag Equine Programs, visit [www.ca.uky.edu/equine](http://www.ca.uky.edu/equine). **UK**

>Holly Wiemers, MA, APR, is the communications and managing director of UK Ag Equine Programs.

## Stay Socially Connected to UK Ag Equine Programs

The UK College of Agriculture, Food and Environment has several equine-related social media pages featuring the latest news and event information.

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**UK Maxwell H. Gluck Equine Research Center** @UKGluckCenter

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**University of Kentucky Ag Equine Programs** An overarching framework for all things equine at the University of Kentucky, including the undergraduate degree program, equine-related student organizations, equine research, and outreach activities.

**University of Kentucky Equine Alumni** A community established for the alumni of the University of Kentucky's equine programs, including ESMA, graduate students and clubs and teams' members.

**University of Kentucky Maxwell H. Gluck Equine Research Center** The Gluck Center's mission is scientific discovery, education, and dissemination of knowledge for the benefit of the health and well-being of horses.

**University of Kentucky Horse Pasture Evaluation Program** A service program offered to horse farms in Kentucky with the goal of overall improved pasture management.

**Saddle Up SAFELY** A rider safety awareness program sponsored by UK HealthCare, UK College of Agriculture, Food and Environment and many community organizations. It aims to make a great sport safer through education about safe riding and horse handling practices. **UK**

## Upcoming Events

**Oct. 5-8**

UK Ag Roundup

**Oct. 7, 1:30 - 7 p.m.**

1:30 - 5:30 p.m. Mini-Symposium: Understanding the pathogenic bacteria-how far have we come?  
 5:30 - 7 p.m. Dr. John F. Timoney Retirement Reception, Spindletop Hall.

**Oct. 25, 6 p.m.**

Equine Research Hall of Fame  
 6 p.m. Cocktail reception  
 6:45 p.m. Dinner and induction ceremony for Dr. Norm Ducharme, Cornell University; Dr. Sue Dyson, Animal Health trust; and Dr. Susan Stover, UC Davis, Hilary J. Boone Center

**Oct. 26, 8:30 - 11 a.m.**

14th Mary Passenger Memorial Lecture Series, Seminars presented by Drs. Ducharme, Dyson, and Stover, Gluck Equine Research Center Auditorium

**Oct. 27, 4 p.m.**

UK Department of Veterinary Science Equine Diagnostic and Research Seminar Series  
 Dr. Brett Furlong will speak about sport horse lameness, UK Veterinary Diagnostic Laboratory