



lifelines

News from the
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New FDA grant for antibiotics monitoring in feedlots and dairies



Drs. Brian Lubbers and Mike Apley team up.

The FDA has greenlighted a pilot project for veterinary researchers at K-State to begin monitoring antibiotic use in beef feedlots and dairies. A grant for the project will total \$1.5 million — \$300,000 per year for a period of five years.

“Our long term goal is to establish a functional and efficient antibiotic use monitoring system in beef and dairy production systems, which will support continued advancement of antibiotic stewardship in the United States,” said Dr. Michael Apley, professor of production medicine and clinical pharmacology.

Dr. Apley is joined on this project by Dr. Brian Lubbers, director of the Clinical Microbiology Laboratory in the Kansas State Veterinary Diagnostic Laboratory, and Dr. Sandra Godden, a veterinary professor at the University of Minnesota.

Students conduct BQA assessments in 74 Kansas feedlots

Summer vacations usually involve travel and sightseeing, but for six Kansas State University veterinary students, their summer was spent visiting 74 feedlots in Kansas in order to provide a unique feedlot assessment service.

The students were selected and trained by Dr. Dan Thomson, Jones Professor of Production Medicine and Epidemiology, working in collaboration with the Kansas Livestock Association, the Kansas Beef Council and National Cattlemen’s Beef Association (NCBA).

“Beef Quality Assurance is a process involving an educational component where producers can be individually certified and then a verification process where the principles of implementation can be verified through an on-site assessment,” Dr. Thomson explained. “Our college conducted a similar project in 2012 with Dr. Tera Rooney-Barnhardt, who was then a student. This summer we recruited six students, who then took the project on as a team. They were real entrepreneurs who ran this project like it was a veterinary practice.”

Five of the students are in the second-year DVM class: Samantha Boyajian,



(Back row) Miles Barber, Joyce Wick and Matthew Temaat. (Front row): Kathleen Flanagan, Isabelle Withrock and Samantha Boyajian.

Isabelle Withrock, Miles Barber, Joyce Wick, and Kathleen Flanagan. The sixth was third-year student, Matthew Temaat.

“We were just like entrepreneurs,” Boyajian said. “We jumped into this project – working together with the producers. It was truly a hands-on experience working with people who care as much as you do and seeing how they work every day. As a learning experience, it was much more than you can get out of a classroom.”

See more on this story at Lifelines online: www.vet.k-state.edu/lifelines/1610.html

Inside this issue of *lifelines*



International photo contest winners.

See page 2



New opportunities in Pondicherry.

See page 3



Iman Award goes to Dr. Bob Larson.

See page 4

International Programs office explores collaboration opportunities for CVM students and faculty in Puducherry veterinary school in India

Drs. Sanjeev Narayanan and Keith Hamilton recently returned from a visit to the Rajiv Gandhi Institute of Veterinary Education and Research (RIVER) in Puducherry, India, where they are working to build collaborative projects for the College of Veterinary Medicine at Kansas State University for the benefit of Doctor of Veterinary Medicine and Master of Public Health (MPH) students.

Dr. Hamilton, executive director of International Programs in the veterinary college, explained that one advantage of developing a relationship with RIVER is that it would provide opportunities for DVM students to experience a high caseload and a wide range of diverse clinical presentations, which they would not commonly see in the United States. He said students would learn about different production systems and see huge biodiversity amongst local livestock populations.

RIVER boasts excellent facilities including large and small animal hospitals, research and diagnostic laboratories, and animal and crop production units. Participating students would develop an understanding about the importance of community engagement and have an

opportunity to get involved in some of the extension projects that RIVER runs. Like Kansas State University, RIVER is linked to an agricultural college, providing students with the opportunity to learn about sustainable production tailored to a different environment.

The institute provides the infrastructure to support student exchanges including comfortable accommodation and highly experienced teaching faculty.

Dr. Narayanan anticipates this will be the first visit of many in the coming years. In the summer of 2017, he plans to visit again with the first group of K-State students.

“I’m excited about this opportunity for our students to expand their outlook and strengthen their problem solving skills in this stimulating and welcoming environment” said Dr. Narayanan, who is a professor in the Department of Diagnostic Medicine/Pathobiology.

Dr. Ellyn Mulcahy, director of the MPH program, sees this as an excellent opportunity for MPH students.

“By working with RIVER faculty and developing relationships with extension



Drs. Keith Hamilton (left) and Sanjeev Narayanan meet with Dr. B. Rameshkumar, the dean at Rajiv Gandhi Institute of Veterinary Education and Research in India.

and local public health professionals in Puducherry, we could develop some really interesting, impactful and worthwhile MPH Capstone and research projects,” she said.

Dr. Hamilton added, “We are specifically looking to develop opportunities for K-State CVM students and faculty to broaden their personal and professional horizons by spending time in exotic locations which also offer support of local faculty and infrastructure. Opportunities could include research projects, faculty and student exchanges, and externships.”

U.S.-China Joint DVM Program selects four Chinese students for pre-veterinary studies

The U.S.-China Center for Animal Health in the CVM has announced the selection of four students to attend Kansas State University next year for pre-veterinary studies in the U.S.-China Joint DVM Scholarship Program. The students were selected after reviewing applications and interviews that were conducted in China in July at Inner Mongolia Agricultural University.

The admitted students are Yilei Zheng, Sichao Mao, Weihan Wang and Xinyi Xu who are from Sichuan Agricultural University, Zhejiang University, Inner Mongolia Agricultural University and Nanjing Agricultural University,

respectively. These four were selected from an initial group of 11 junior or senior undergraduates from nine universities in China, which also included: China Agricultural University, North-West A&F University, Northeast Agricultural University, Jilin University and Hebei Normal University of Science and Technology.

The students who are selected for the U.S.-China Joint DVM degree program must complete one year pre-veterinary studies at Kansas State University, and then they may apply for admittance at Kansas State University



Faculty from K-State and Iowa State interview a prospective pre-vet student in China.

or one of three other universities which are partners in the program: Iowa State University, University of California, Davis, and University of Minnesota. See more at Lifelines online.

African scenes earn prizes in 'Veterinarians Around the World' contest

A dramatic image of wildlife veterinarians fighting against the clock to save rhinos from poachers in South Africa's Kruger National Park was selected for first place, highlighting the work of "Veterinarians Around the World" – the theme of a contest organized by the office of International Programs in the College of Veterinary Medicine at Kansas State University.

"Conservation in Motion" was captured by Joel Alves, a veterinary student at Onderstepoort Faculty of Veterinary Science, University of Pretoria, South Africa, earning the top prize of \$1,000. His black-and-white photo portrays the role of wildlife veterinarians in protecting rhinos, which has become increasingly important. According to the World Wildlife Fund (WWF) the number of rhinos poached in South Africa has increased 9,000 percent since 2007.

The two runners up, have an educational theme. "Afternoon recess" was taken by Jamie Neufeld, veterinary student at Western College of Veterinary Medicine in Saskatoon, Canada. Her photo shows school children in Uganda captivated by interns from Veterinarians Without Borders taking a blood sample from a goat who shares their soccer field with them. Peter Kimeli, a postgraduate student at the University of Nairobi, Kenya, submitted "Taking Charge of Our Future: A Vision for Veterinary Professionals" featuring himself and his young daughter helping to examine a calf. The two runners up each received a \$500 cash prize.

The winners come from a total of 240 different photos that were submitted by students from 35 countries across the Americas, Europe, Asia and Africa depicting animal health, One Health, wildlife conservation, food safety and food security.

Entries were judged by a multidisciplinary panel on the criteria of eligibility, originality, style, context and quality of photograph. The top 12 photographs will be published in a calendar with an acknowledgement to each photographer.

"We are delighted with the number of entries and by the quality of the photos," said Dr. Keith Hamilton, executive director of International Programs. "As we had hoped the images highlight the diverse work of veterinarians in different countries."

Entries were open to students pursuing a veterinary (e.g. DVM, BVSc, BVMS, or equivalent), undergraduate (e.g. bachelors), or postgraduate/graduate (e.g. masters, certificate, diploma, or PhD) degree from anywhere in the world.

The photos and information about the photos are posted at the International Programs website: <http://www.vet.k-state.edu/international/events/photo-comp.html>. Contact International Programs at international@vet.k-state.edu or 785-532-4685 with any questions.



"Conservation in Motion" by Joel Alves is the first-place winner in the "Veterinarians Around the World" photo competition organized by the International Programs office.



"Afternoon Recess" by Jamie Neufeld earned runner-up honors (above) along with "Taking Charge of Our Future: A Vision for Veterinary Professionals" by Peter Kimeli.



Dr. Bob Larson receives 2016 Iman Teaching Award



The CVM's Dr. Bob Larson was one of two Kansas State University faculty members to each receive a \$5,000 award in recognition of outstanding research and teaching during a ceremony held Sept. 26 at the K-State Alumni Center.

Introduced in 2007, the annual Dr. Ron and Rae Iman Outstanding Faculty Awards are sponsored by the K-State Alumni Association and are made possible through the generosity of Ron and Rae Iman.

Dr. Larson's award honors a full-time K-State faculty member for excellence in high-quality instruction, strong relationships with students inside and outside the classroom and a reputation for scholarship and distinguished service to the university.

His nominator, Dr. Bonnie Rush, executive associate dean, said, "Dr. Larson's philosophy of teaching is to equip future veterinarians and advanced trainees with problem-solving skills that will support their careers regardless of their specific path."

Fourth-years have a 'Royal' time



Three fourth-year veterinary students, Yaoqin Shen, Joanna Wilson and Brett Fischer, deliver 10-minute presentations to elementary school students and their teachers at the American Royal Association Livestock Show in Kansas City, Missouri.

CVM News Ticker



Congratulations to **Dr. Megan Niederwerder** who was recognized this past July at the 2016 Meril-National Institutes of Health National Veterinary Scholars Symposium as a finalist for the 2016 Young Investigator Award, co-sponsored by the AVMA and the American Veterinary Medical Foundation. The Young Investigator Award is given to graduate veterinarians pursuing advanced research training through doctoral or postdoctoral programs. From 36 applicants, the top five finalists were selected by a panel of researchers at the host school and presented their research at the symposium. She was also invited to participate in the Burroughs Wellcome Fund "Becoming Faculty" Workshop. The symposium and workshop were held at Ohio State University.

Dr. Brian Lubbers attended the Western College of Veterinary Medicine/Prairie Diagnostic Services in Saskatchewan in September and gave presentations on antimicrobial resistance/stewardship and AMR surveillance programs.

Dr. A. Sally Davis established a three-year cooperative agreement with the USDA, specifically with William Wilson, entitled, "Development of Tools for the Pathological Characterization of Rift Valley Fever Virus Infection."

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