

Zoetis Establishes Research Facility with Texas A&M University to Develop Vaccines for Transboundary and Emerging Diseases in Animals

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Collaborates with Texas A&M researchers to help reduce the threat of animal disease

Brings research jobs to College Station for innovation in livestock animal health

COLLEGE STATION, TEXAS, AND PARSIPPANY, NEW JERSEY, October 28, 2019 -- Zoetis, the world's leading animal health company, has signed an agreement with Texas A&M University's Health Science Center for Innovation in Advanced Development and Manufacturing (CIADM) to establish a facility for accelerating the development of transboundary and emerging disease vaccines -- including those for [Foot-and-Mouth Disease \(FMD\)](#), a virus that can cause serious illness in cattle, pigs, and sheep. Working side by side with Zoetis scientists, CIADM staff will collaborate in the development of processes, assays, and formulations used to produce new vaccines.

As part of the agreement, Zoetis is setting up a 12,800-square-foot secure, biocontainment lab off-campus utilizing modular cleanroom technology. The Transboundary and Emerging Disease Vaccine Development Facility is expected to be operational mid-2020, pending approval by the U.S. Department of Agriculture (USDA) to receive strains of the Zoetis FMD vaccine platform that are non-infectious to cattle and other livestock -- and therefore, cannot cause the disease. While FMD vaccines will be the initial focus of the center's vaccine development, the facility can be expanded to accommodate vaccine development for other emerging diseases in the future.

"We are proud to be working with Texas A&M in the development of this critical vaccine to protect the health of livestock in the U.S. and markets around the world. FMD is one of the most serious diseases for livestock owners, and through an innovative vaccine platform, we can help them reduce the risk of an outbreak and avoid significant economic losses," said Dr. John Hardham, Research Director in Global Biologics Research and Director of the Zoetis Center for Transboundary and Emerging Diseases. "By combining our internal innovation efforts with world-class research institutions such as Texas A&M, Zoetis is in the best position to bring veterinarians and livestock producers solutions to better predict, prevent, detect and treat disease in the animals under their care."

Chancellor John Sharp with The Texas A&M University System echoed that sentiment: "The Texas A&M System is uniquely qualified to be on the front lines of protecting animal health care. By protecting animals, we are also protecting human health, our food supply and our economy."

"I am pleased that Zoetis decided to establish a collaborative effort with CIADM to develop critical animal vaccines. Our combined efforts to bring critical foot-and-mouth vaccines to the veterinarian market utilizing the novel Zoetis platform will be of significant benefit to both Texas and livestock communities around the world," said Dr. William Jay Treat, Chief Manufacturing Office for CIADM with the A&M Health Science Center. "It is an outstanding entrepreneurial opportunity for the A&M Health Science Center to play a key role in Zoetis' vaccine efforts."

As part of establishing the new facility, the CIADM program expects initially to hire up to eight staff scientists in College Station by the first quarter of 2020.

About FMD

While FMD is not harmful to humans, livestock animals worldwide are highly susceptible to FMD viruses. An unchecked spread of FMD could result in an economic impact of billions of dollars in the first year, devastate international livestock trade, and severely impact the livelihoods of farmers and ranchers. FMD does not affect horses, dogs, or cats, and is not a food safety threat.

As many countries across the globe are dealing with FMD in their livestock populations, the United States eradicated the

disease here in 1929. The USDA's Animal and Plant Health Inspection Service (APHIS) works to ensure the continued health of our nation's livestock, including preventive steps to keep FMD from reentering the country.

In April 2018, as a first step toward FMD vaccine development for the U.S., the USDA granted Zoetis a select agent exclusion authorizing the company to develop vaccines using a modified, non-infectious FMD-LL3B3D vaccine platform in the U.S. Through its collaboration with Texas A&M, Zoetis is now moving forward to safely develop an FMD vaccine that is not infectious and cannot transmit among livestock in the U.S. With this vaccine platform, regulatory authorities and veterinarians may be able to distinguish between animals that have been vaccinated and those with natural FMD virus infection -- which would help protect export markets for U.S.-raised meat.

Full-scale manufacture of FMD-LL3B3D based vaccines is being considered but is not currently authorized in the United States.

Enhancing Rapid Response to Emerging Diseases

The Transboundary and Emerging Disease Vaccine Facility in Texas will be part of the Center for Transboundary and Emerging Diseases within Zoetis, which helps governments prepare for and protect against the threat of outbreaks of devastating diseases in animal health. As infectious diseases are occurring with greater frequency and geographic impact, the Center serves as a virtual hub that brings together Zoetis' capabilities in surveillance and alliances with animal health centers of excellence worldwide -- such as Texas A&M -- along with expertise in vaccine development, regulatory affairs and flexible manufacturing capacity to effectively prevent and control infectious disease outbreaks.

Zoetis has been on the forefront of vaccine development to help combat many of the most significant infectious diseases including Bluetongue, classical swine fever, porcine epidemic diarrhea, and highly pathogenic avian influenza.

The Texas A&M University System

The Texas A&M University System is one of the largest systems of higher education in the nation, with a budget of \$6.3 billion. Through a statewide network of 11 universities, a comprehensive health science center, eight state agencies, and the RELLIS Campus, the Texas A&M System educates more than 153,000 students and makes more than 22 million additional educational contacts through service and outreach programs each year. System-wide, research and development expenditures exceeded \$1 billion in FY 2018 and helped drive the state's economy.

About Zoetis

Zoetis is the leading animal health company, dedicated to supporting its customers and their businesses. Building on more than 65 years of experience in animal health, Zoetis discovers, develops, manufactures and commercializes medicines, vaccines and diagnostic products, which are complemented by biodevices, genetic tests and a range of services. Zoetis serves veterinarians, livestock producers and people who raise and care for farm and companion animals with sales of its products in more than 100 countries. In 2018, the company generated annual revenue of \$5.8 billion with approximately 10,000 employees. For more information, visit <https://www.zoetisus.com>.

DISCLOSURE NOTICES

Forward-Looking Statements: This press release contains forward-looking statements, which reflect the current views of Zoetis with respect to business plans or prospects, expectations regarding products, the development of future products and other future events. These statements are not guarantees of future performance or actions. Forward-looking statements are subject to risks and uncertainties. If one or more of these risks or uncertainties materialize, or if management's underlying assumptions prove to be incorrect, actual results may differ materially from those contemplated by a forward-looking statement. Forward-looking statements speak only as of the date on which they are made. Zoetis expressly disclaims any obligation to update or revise any forward-looking statement, whether as a result of new information, future events or otherwise. A further list and description of risks, uncertainties and other matters can be found in our Annual Report on Form 10-K for the fiscal year ended December 31, 2018, including in the sections thereof captioned "Forward-Looking Statements and Factors That May Affect Future Results" and "Item 1A. Risk Factors," in our Quarterly Reports on Form 10-Q and in our Current Reports on Form 8-K. These filings and subsequent filings are available online at www.sec.gov, www.zoetis.com, or on request from Zoetis.

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