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Studies on Antimicrobial resistance in bacteria of veterinary importance

Project Number
5U18FD006379-02

Contact PI/Project Leader
ALTIER, CRAIG

Awardee Organization
CORNELL UNIVERSITY

Description

Abstract Text

Project Summary/Abstract The New York State/Cornell Animal Health Diagnostic Center (AHDC) is a full-service multidisciplinary veterinary diagnostic laboratory and the only one of its kind in the northeastern United States. The AHDC received over 200,000 client accessions in 2016. The Bacteriology section has MALDI-TOF, Sensititer, Blood culture machine, BSL3 upgradable workspace and 16S DNA sequencing capabilities, making it a full-service bacteriology laboratory. Additionally, the AHDC has in-house ISO approved Whole genome sequencing capacity which are unique to **infectious disease** laboratories. The Bacteriology laboratory of the AHDC performed approximately 100,000 tests in the year 2016 on clinical samples, tissue, serum, bacterial isolates, environmental, food, and feed samples. The AHDC has partnered with the FDA and played an active role in pet food and animal feed contamination investigations many times over the past dozen years. We hope to continue our participation with the FDA Vet-LIRN program and other network laboratories to: 1) Continue participation in VPO designated sample analyses and surveillance activities to promote animal health and welfare and add to the Vet-LIRN Network's surge capacity to assist in emergency and large-scale outbreak testing. 2) Provide analytical data to support regulatory actions by developing and using standardized methods, equipment platforms, and reporting methods, continued participation in proficiency testing provided by the VPO, continue investigating consumer reported cases as requested by the VPO, and continuing to improve and implement standardized quality management systems as designated by the VPO. 3) Continue to participate in small-scale antibiotic susceptibility testing studies to address **emerging** antimicrobial resistance issues, and participate in Whole genome sequencing project. The bacteriology section of the AHDC intends to continue cooperative activities with the FDA Vet-LIRN, the Vet- LIRN network, and federal, state, local and tribal organizations to promote animal health and feed and food safety and security.

Public Health Relevance Statement

Project Narrative Today, emergence of antibiotic resistant bacteria is considered as a global threat. Prudent susceptibility testing and use of antibiotics will help us to reduce the antibiotic resistance burden. The AHDC Bacteriology laboratory wishes to continue its cooperative agreement with the FDA Vet-LIRN and the Vet-LIRN network of veterinary diagnostic laboratories to promote the areas of food and feed surveillance, antibiotic susceptibility testing, quality management, promote animal health and feed and food safety and security and provide surge capacity for large-scale testing in the event of an emergency.

Project Terms

No Project Terms available.

Details

Contact PI/ Project Leader

Name
ALTIER, CRAIG

Title
PROFESSOR

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Other PIs

Not Applicable

Program Official

Name
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Organization

Name
CORNELL UNIVERSITY

City
ITHACA

Country
UNITED STATES (US)

Department Type
VETERINARY SCIENCES

Organization Type
SCHOOLS OF VETERINARY MEDICINE

State Code
NY

Congressional District
23

Other Information

FOA
PAR-17-141

Administering Institutes or Centers
FOOD AND DRUG ADMINISTRATION

Project Start **01-July-2018**

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Project Funding Information for 2019

Total Funding	Direct Costs	Indirect Costs
$54,800	$40,000	$14,800

Year	Funding IC	FY Total Cost by IC
2019	FOOD AND DRUG ADMINISTRATION	$54,800

Sub Projects

No Sub Projects information available for 5U18FD006379-02

Publications

No Publications available for 5U18FD006379-02

Patents

No Patents information available for 5U18FD006379-02

Outcomes

The Project Outcomes shown here are displayed verbatim as submitted by the Principal Investigator (PI) for this award. Any opinions, findings, and conclusions or recommendations expressed are those of the PI and do not necessarily reflect the views of the National Institutes of Health. NIH has not endorsed the content below.

No Outcomes available for 5U18FD006379-02

Clinical Studies

No Clinical Studies information available for 5U18FD006379-02

News and More

Related News Releases

No news release information available for 5U18FD006379-02

History

No Historical information available for 5U18FD006379-02

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