

EPIGENESIS 2013 > 2016

EXPANDING GUADELOUPE RESEARCH POTENTIAL ON ANIMAL HEALTH IN GUADELOUPE

EPIGENESIS European project aims to expand Guadeloupe research potential on emerging and vector-borne diseases along the 'One-Health' concept. The project relies on an integrated approach of multidisciplinary activities, from genomics to medical entomology and spatial epidemiology, to improve the capacity of diseases prediction, surveillance and control.

Emerging and re-emerging infectious diseases have a tendency to adapt rapidly to global changes particularly in the Caribbean with increased risks of disease outbreaks, threatening animal health, stock breeding worldwide as well as veterinary public health. Anticipation of health crises through relevant research programmes and innovative disease surveillance and control strategies is necessary to preserve animal health, food security and human health in Caribbean countries and territories, and beyond protect Europe.



MAIN ACHIEVEMENTS

Expertise and scientific capacity development: exchanges of researchers and recruitment of six scientists in Guadeloupe specialized in proteomics, molecular microbiology, bioinformatics, spatial epidemiology, medical entomology and health economy.



MAIN OBJECTIVES

- > Reinforce Guadeloupe Scientific & Technological potential on emerging and vector-borne diseases through the development of new competences and the acquisition of high technology equipment.
- > Develop strategic partnerships with outstanding European research entities on animal health by the exchange of scientists between Europe and Guadeloupe and trainings.
- > Disseminate scientific information and knowledge to the scientific community, decision-makers, but also animal health stakeholders, and the general public in Guadeloupe and in the whole Caribbean region.
- > Increase Guadeloupe innovation potential with the development of diagnostic tests, vaccine, tools to assist decision-making and alert system.



New proteomics equipment.

MAIN PARTNERS

- > In Europe: Centre de Recerca en Sanitat Animal (CReSA), Spain; Instituto de Biologia Experimental Tecnologica (IBET), Portugal; Instituto de Tecnologia Química et Biologica (ITQB), Portugal; UMR-INRA-Oniris, BioEpAR Institut National de la Recherche Agronomique (Inra), France; École des Hautes Études de Santé Publique (EHESP), France; Agriculture and Veterinary Information and Analysis (AviaGIS), Belgium.
- > In Guadeloupe: Inra, Institut Pasteur, Université des Antilles, Agence Régionale de Santé, Centre Hospitalier Universitaire de Guadeloupe, Inserm.
- > In the Caribbean: Members of CaribVET, the Caribbean Animal Health Network of veterinary services and diagnostic laboratories of 33 pays countries et territories, research institute (CENSA, CIRAD), veterinary universities (UWI, University of Guyana) as well as regional (CARICOM) and international organisations (OIE, FAO, USDA, PAHO, IICA).

CONTACT

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EPIGENESIS project's team.

- > Creation of three platforms widely open to Guadeloupean and Caribbean partners for proteins analysis (proteomics), genes analysis (genomics/transcriptomics) and pathogen characterization (high containment laboratory).
- > Broad dissemination of the scientific information and knowledge to the scientific community, decision makers and general public.
- Participation to regional and international scientific conferences.
- Organization of conferences with Caribbean and European partners:
 - 2nd International Conference on Animal Health Surveillance (Cuba, 7-9 May 2014),
 - 1st regional conference on research and surveillance on animal health (Guadeloupe, 21 April 2015),
 - Parallel session dedicated to research and surveillance in animal health during the International conference of the European Society of Veterinary Virology (Montpellier, September 2015).
- Presentation of activities and research products to general public, schools and professionals through Infodays, meetings and seminars.



VIII International Conference on Ticks and Tick-borne Pathogens (TTP-8).



Science Week

TO KNOW MORE ABOUT THE PROJECT: http://epigenesis.cirad.fr/



