

# Lao – Lux lab / Vaccine preventable diseases 2013-2014

**Head of Lab:** Claude Muller, Ph. D  
Email: a.black@pasteur.la

## **Main objective of the lab:**

The LaoLux Laboratory is operated by the Institute of Immunology in Luxembourg and aims to build capacity for investigations of important human and animal infectious diseases and to initiate and support collaborative research projects in Lao PDR. The laboratory carries out country-specific research in Lao PDR focusing on vaccine-preventable infectious diseases, zoonotic diseases, identification of new viruses and variants and other investigations. These studies are important to estimate the burden of specific infections, to promote virus outbreak control, to improve animal health welfare and productivity, to support public health policies and vaccination programmes and to optimize health strategies.

## **Team:**

1. Antony BLACK, Ph. D, Scientist and Responsible of the Lab
2. Phonethipsavanh NOUANTHONG, Ph. D, Scientist
3. Keooudomphone VILIVONG, MD, Junior Scientist
4. Did PANYATHONG, Technician

## **The research projects include important components:**

- Investigation of public and animal health challenges caused by infectious diseases.
- Training of laboratory and academic staff and students both at IPL and CRP-Santé.
- Implementation of new technologies by technology transfer and by providing equipment.
- Providing international visibility to scientists from Lao

PDR and access to the international scientific community.

- Dissemination of research results through scientific publications, presentations and international meetings as well as national and international press releases.
- Technical and scientific support for other laboratories in Lao PDR.
- Teaching/training of laboratory staff from collaborating laboratories.

**Areas of research and surveillance include:**

- Immunology and genetic/antigenic diversity of viruses including molecular epidemiology.
- Public health issues related to infectious diseases in humans (measles virus, rubella virus, mumps virus, hepatitis virus, respiratory viruses etc).
- Public health and animal welfare issues related to veterinary viruses.

**Project carried on in the lab:**

+Measles and rubella

+Mumps

+Hepatitis B and hepatitis C virus in Lao blood donors

+Hepatitis B and C in Lao healthcare workers