



Pasteur Institute - Ho Chi Minh City  
Training Center



香港大學 - 巴斯德研究中心  
HKU-Pasteur Research Pole

## INTERNATIONAL WORKSHOP

### OUTBREAK INVESTIGATION AND ACUTE RESPONSE

*2-6 NOVEMBER 2015, HO CHI MINH CITY, VIETNAM*

## PROGRAM

AMBASSADE DE FRANCE  
Délégation régionale de Coopération



## Faculty

### **HOANG QUOC CUONG**

Training Center  
Pasteur Institute in Ho Chi Minh City  
Ho Chi Minh City, Vietnam  
[cuonghqpasteur@gmail.com](mailto:cuonghqpasteur@gmail.com)

### **ROBERTO BRUZZONE**

HKU-Pasteur Research Pole  
School of Public Health  
The University of Hong Kong, Hong Kong SAR  
Email: [bruzzone@hku.hk](mailto:bruzzone@hku.hk)

### **MARIA VAN KERKHOVE**

Pasteur Center for Global Health  
Institut Pasteur  
Paris, France  
[maria.van-kerkhove@pasteur.fr](mailto:maria.van-kerkhove@pasteur.fr)

### **ANTHONY W. MOUNTS**

Center for Disease Control and Prevention  
Atlanta, USA  
[apm8@cdc.gov](mailto:apm8@cdc.gov)

### **STEPHANIE DAVIS**

National Centre for Epidemiology & Population Health  
Australian National University  
Canberra, Australia  
[Stephanie.Davis@anu.edu.au](mailto:Stephanie.Davis@anu.edu.au)

### **DAVID HARLEY**

National Centre for Epidemiology & Population Health  
Australian National University  
Canberra, Australia  
[David.Harley@anu.edu.au](mailto:David.Harley@anu.edu.au)

### **VU THI QUE HUONG**

Department of Microbiology and Immunology  
Pasteur Institute in Ho Chi Minh City  
Ho Chi Minh City, Vietnam  
[huongpasteur@hotmail.com](mailto:huongpasteur@hotmail.com)

# Program

## 2 November 2015

- 8:00 – 8:30     **Opening ceremony**  
Phan Trong Lan  
Pasteur Institute of Ho Chi Minh City, Vietnam  
Roberto Bruzzone  
HKU – Pasteur Research Pole, Hong Kong SAR  
TBA  
Consulate General of France in Ho Chi Minh City, Vietnam
- 8:30 – 9:30     **Introduction and Trainees' pre-test**
- 9:30 – 10:00    **Break & Group Photo**
- 10:00 – 11:00   **Outbreak investigation: Rationale and terminology**
- 11:00 – 12:00   **Epidemiologic steps in outbreak investigation**
- 12:00 – 13:30   **Lunch**
- 13:30 – 15:00   **Practical session: Investigating an outbreak of H5N1 in a rural village**  
*In this case study trainees will apply the steps to investigate an outbreak (2 or 3 cases) of H5N1 in a rural village. Students will create a simple line list and epi curve and discuss potential control measures.*
- 15:00 – 15:15   **Break**
- 15:15 – 17:00   **Practical session: Using Epi Info to create a questionnaire**  
*A short lecture on questionnaire design will be followed by instruction in how to use Epi Info to create a simple questionnaire for an outbreak.*
- 17:00 – 17:15   **Break**
- 17:15 – 18:30   **Trainees' self-presentations**

### 3 November 2015

- 8:30 – 9:45 **Outbreak detection and confirmation**
- 9:45 – 10:00 **Break**
- 10:00 – 11:00 **Case definition and case finding**
- 11:00 – 12:00 **Practical session: Investigating a food borne outbreak**  
*This case study will focus on the importance of early detection and creating a sensitive versus specific case definition.*
- 12:00 – 13:30 **Lunch**
- 13:30 – 15:00 **Practical session: Investigating a food borne outbreak**  
*Trainees will be provided with a dataset from the case study of the morning (in excel). They will use this Epi Info to do descriptive analysis of the data including frequency tables and an epi curve.*
- 15:00 – 15:15 **Break**
- 15:15 – 17:00 **Practical session: Investigating a food borne outbreak**  
*This session will continue from the last, with trainees performing analysis using Epi Info. There will be a short discussion on the main study designs used in outbreaks (case control and cohort) however the focus of this session will be on managing and interpreting data for public health action.*
- 17:00 – 17:15 **Break**
- 17:15 – 18:30 **Trainees' self-presentations**

#### 4 November 2015

- 7:00 – 13:00 **Field study at Thu Duc Preventive Medicine Center**
- 13:00 – 14:30 **Lunch**
- 14:30 – 15:30 **Practical Session: Field study**  
*Trainees will use Epi Info to create a database and enter the data they collected that morning during the field study.*
- 15:30 – 15:45 **Break**
- 15:45 – 17:00 **Practical Session: Field study**  
*Trainees will give a short presentation on their experience from the field study, including the data they collected. A facilitated group discussion will focus on possible public health action required, any other next steps and what trainees learnt.*
- 17:00 – 17:15 **Break**
- 17:15 – 18:30 **Trainees' self-presentations**

## 5 November 2015

- 8:30 – 9:30     **Introduction to risk assessment and risk communication**
- 9:30 – 9:45     **Break**
- 9:45 – 11:00   **Practical session: Risk assessment**  
*Trainees will estimate risk of MERS CoV or Ebola in a South East Asian country and perform a risk assessment on a localized outbreak. Students conduct a risk assessment and determine what steps to take next for both.*
- 11:00 – 12:00   **Practical session: Risk communication**  
*Students draft a risk communication strategy for the above risk assessments.*
- 12:00 – 13:30   **Lunch**
- 13:30 – 14:30   **Introduction to writing outbreak reports**
- 14:30 – 14:45   **Break**
- 14:45 – 17:00   **Practical Session: Preparing an outbreak report**  
*In small groups students write an outbreak report on one of the outbreak case studies of the preceding days. The last 30 minutes of this session will involve groups discussing their different approaches to writing this focussing on what does and doesn't work.*
- 17:00 – 17:15   **Break**
- 17:15 – 18:30   **Trainees' self-presentations**

## 6 November 2015

- 8:30 – 9:45      **Environmental and other additional studies**
- 9:45 – 10:00    **Break**
- 10:00 – 12:00   **Panel discussion: Common pitfalls in outbreak investigations**  
*Experienced investigators and trainees share lessons learnt. A group document that collates these by theme would be a good outcome.*
- 12:00 – 13:30   **Lunch**
- 13:00 – 14:30   **Panel discussion: Common pitfalls in outbreak investigations**  
*Continued from the morning session.*
- 14:30 – 15:00   **Break**
- 15:00 – 16:00   **Post-test**
- 16:30 – 17:00   **Course evaluation**
- 17:00 – 17:30   **Closing remarks**  
[Teaching Team](#)
- 19:00              **Dinner**