Symposium on « Molecular tuberculosis » – May 12th to 14th

Organizers
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Tuberculosis (TB) is a major problem. This course will provide an overview of knowledge concerning diagnosis and drug susceptibility testing, facilitating the more rapid diagnosis of tuberculosis and the identification of drug resistance. The diagnosis of tuberculosis is based on the detection of TB bacilli. New methods based on nucleic acid amplification should be considered, in addition to the classical methods currently used. This course will provide information about the genetic and metabolic bases of commercial tests for detection, identification and drug susceptibility testing. This knowledge is important, as it makes it possible to evaluate the various tests used in laboratories working in different settings. This international training workshop is organized by the network of the Pasteur Institutes, the
Shanghai CDC, and the Fudan University. It will be held at the Shanghai CDC.

**Tentative agenda**

**May 12th**
9h Jian Mei, Qian Gao and Brigitte Gicquel : Introduction

9h30–10h30: Philippe Glaziou
Global epidemiology of tuberculosis

10h30–11h30: Steffen Stenger
Overview of clinical tuberculosis

Lunch

14h–15h : Oliver Neyrolles
Host pathogen interactions in tuberculosis

15h–16h : Pricille Brodin
Virulence mechanisms in tuberculosis

Tea and discussions with the speakers

**May 13th**
9h–10h : Philippe Glaziou
Tuberculosis and HIV

10h–11h : Steffen Stenger
Immunology of tuberculosis and implications for the diagnosis of infection

11h–12h : Jelle Thole
Vaccines against Tuberculosis

Lunch

14h–15h : Ed Desmond
Role of the laboratory for the diagnosis and control of tuberculosis

15h–16h : Boran Sarr
Organisation of the TB laboratory and the constraints in developing countries

Tea and discussions with the speakers

**May 14th**

9h–10h: Ed Desmond
Rapid diagnosis of tuberculosis

10h–11h: Ying Zhang
Mechanisms of antibiotic resistances in the microbial world

11h–12h: Katherine DeRiemer
Molecular epidemiology in tuberculosis

Lunch

14h–15h: Ying Zhang
Mechanisms of resistance and multiresistance in tuberculosis

15h–16h: Katherine DeRiemer
From Genotypes to Phenotypes in Humans:
Challenges in Population–Based Research

Tea and discussions with the speakers

**May 15th**

Free

**May 16th to 22nd**

Practical training workshop on « Molecular tools for diagnosis and drug susceptibility testing”
Manipulation and evaluation of commercial tests for diagnosis and identification: culture–based methods (solid and liquid media) and NAA–based tests, comparison with target sequencing.
Manipulation and evaluation of commercial tests for DST: culture–based tests (solid and liquid media) and NAA–based tests, comparison with target sequencing.
Methods for typing M. tuberculosis complex strain.