



***Workshop-Training Course***  
***Detection Techniques for Mycotoxins in the Food Chain***

**June 24 - 26, 2013**

Faculty of Agricultural Technology, Universitas Gadjah Mada  
Yogyakarta, Indonesia

**Organized by**

**Francis M.C. Sigit Setyabudi**

Faculty of Agricultural Technology, Universitas Gadjah Mada (FTP-UGM)  
Yogyakarta, Indonesia

**Angelo Visconti and Michelangelo Pascale**

Institute of Sciences of Food Production, National Research Council (ISPA- CNR)  
Bari, Italy

**Instructors** *(in alphabetical order)*

**Ali Agus** (Faculty of Animal Husbandry-UGM, Indonesia)

**Danrey Toth** (VICAM, A Water Business, USA)

**Eric Yeo** (RomerLab, Singapore)

**Francis M.C. Sigit Setyabudi** (CEMycoS FTP-UGM, Indonesia)

**Hans van Egmond** (RIKILT, the Netherlands)

**Jerry Ding** (VICAM, A Water Business, USA)

**Michelangelo Pascale** (ISPA-CNR, Italy)

**Sardjono** (CEMycoS FTP-UGM, Indonesia)

**Vincenzo Lippolis** (ISPA-CNR, Italy)



## TOPICS

- **Lectures**
  - Overview on major toxigenic fungi and relevant mycotoxins in the food chain
  - Mycotoxin analysis : an overview of various methodologies
  - Mycotoxins assessment, regulations and its harmonization in EU and South East Asia
  - Sampling methods for mycotoxins analysis
  - Performance criteria and validation of analytical methods for mycotoxins
  - Rapid methods for mycotoxin detection
- **Laboratory**
  - Chemical analysis of major mycotoxins by HPLC (Aflatoxins and Ochratoxin A)
  - Rapid techniques for mycotoxins detection (Series IV-EX Fluorometer, VERTU, and ELISA)

## PROGRAMME

### **MONDAY, 24<sup>th</sup> June 2013**

- 8:00 - 8:15 Welcome address (Dean of Faculty of Agricultural Technology, UGM)
- 8:15 - 8:30 Introduction to the course (Francis M.C. Sigit Setyabudi)
- 8:30 - 9:15 Overview on major toxigenic fungi and relevant mycotoxins in the food chain (Sardjono)
- 9:15 - 10:00 Mycotoxin analysis: an overview of various methodologies (Michelangelo Pascale)
- 10:00 - 10:30 *Coffee break*
- 10:30 - 11:30 Mycotoxin Test Solution & Protocol for Aflatoxins analysis by HPLC/IAC clean up and Fluorometer/IAC clean up (Danrey Toth and Jerry Ding)
- 11:30 - 12:00 *Laboratory* - Aflatoxins analysis by HPLC/IAC clean up and Fluorometer/IAC clean up (Danrey Toth and Jerry Ding)
- 12:00 - 13:00 *Lunch*
- 13:00 - 17:00 *Laboratory* (cont.) - Aflatoxins analysis by HPLC/IAC clean up (Danrey Toth and Jerry Ding)

### **TUESDAY, 25<sup>th</sup> June 2013**

- 8:00 - 8:45 Mycotoxins assessment, regulations and its harmonization in EU and South East Asia (Hans van Egmond)
- 8:45 - 9:30 Sampling methods for mycotoxin analysis (Ali Agus)
- 9:30 - 10:15 Performance criteria and validation of analytical methods for mycotoxins (Michelangelo Pascale)
- 10:15 - 10:45 *Coffee break*
- 10:45 - 11:30 Protocol Briefing for Ochratoxin A analysis by HPLC/IAC clean up (Eric Yeo)
- 11:30 - 12:00 *Laboratory* - Ochratoxin A analysis by HPLC/IAC clean up (Eric Yeo)

- 12:00 - 13:00 Lunch  
13:00 - 17:00 Laboratory (cont.) - Ochratoxin A analysis by HPLC/IAC clean up (Eric Yeo)  
19:00 - 21:30 Workshop Dinner

**WEDNESDAY, 26<sup>th</sup> June 2013**

- 8:00 - 9:30 Rapid methods for mycotoxin detection (Vincenzo Lippolis)  
9:30 - 10:00 *Coffee break*  
10:00 - 10:15 Protocol for Aflatoxins by rapid methods (VERTU and ELISA in separated groups)  
10:15 - 12:00 *Laboratory* - Aflatoxins by rapid methods (VERTU and ELISA in separated groups)  
12:00 - 13:00 *Lunch*  
13:00 - 13:15 Protocol for Aflatoxins by rapid methods (VERTU and ELISA in separated groups)  
13:15 - 15:00 *Laboratory* - Aflatoxins by rapid methods (VERTU and ELISA in separated groups)  
15:00 - 15:30 Evaluation of overall results (Francis M.C. Sigit Setyabudi and Michelangelo Pascale)  
15:30 - 16:00 Questionnaire to participants for course evaluation and general discussion.  
Concluding remarks