Workshop "Effective Mycotoxin Management"

11-12 December 2013

Room Bussakorn, NECTEC Building,

Thailand Science Park, Pathum Thani, Thailand

Organized by:

- National Center for Genetic Engineering and Biotechnology (BIOTEC)
  National Science and Technology Development Agency (NSTDA)
  Ministry of Science and Technology (MOST)

In collaboration with:

- Thammasat University (TU)
- Monitoring and Quality Assurance in the Food Supply Chain (MoniQA)
- International Association for Cereal Science and Technology (ICC)

Rationale and Background:

The worldwide contamination of foods and feeds with mycotoxins poses a significant problem to staple foods and meat production. Mycotoxins are secondary metabolites of molds that have adverse effects on humans, animals, and crops that result in illnesses and economic losses. The accumulation of mycotoxins in foods and feeds represents a major threat to human and animal health as they are responsible for many different toxicities including the induction of cancer, mutagenicity and estrogenic gastrointestinal, urogenital, vascular, kidney and nervous disorders. Some mycotoxins are also immuno-compromising, and can thus reduce resistance to infectious disease. Significant economic losses are associated with their impact on human health, animal productivity, and both domestic and international trade.

This workshop aims to provide knowledge and expertise from experts in the mycotoxin field from both Thailand and abroad on the current situations, impacts and regulations of mycotoxins in food and feed industries, current detection methods and how the risk of mycotoxin contamination can be managed.

Objectives:

1. To review current situations, impacts and regulations of mycotoxins in food and feed industries both in Thailand and Globally.
2. To review current methods for mycotoxins detections and get some hands-on experience using detection kits.
3. To get insight in mycotoxin risk analysis and mitigation strategies to control contaminations.

Speakers:

• Dr. Roland Ernest Poms	MoniQA and ICC, Austria
• Dr. Vish Prakash	Council of Scientific and Industrial Research (CSIR), India International Society for Nutraceuticals , Nutritionals And Naturals (ISNNAN), India
• Assist. Prof. Dr. Natthasit Tansakul	Kasetsart University, Thailand
• Ms. Tan Limien	Romer Labs, Singapore
• Mr. Ronald Niemeijer	Trilogy Analytical Service, USA

Sponsors:

- R-Biopharm, Germany
- Romer Labs, Singapore
- Trilogy Analytical Laboratory, USA

Language: English

Target group: Interested students, researchers, university personals and laboratory personals from both government and private sectors. The workshop will be conducted in English. Therefore, English proficiency is recommended for all participants.

No. of participants: 50 persons

Registration fee: (includes VAT, Lunch, Refreshment, Workshop material and Reception dinner)

- Thai student 1,500 Baht
- Thai participant 3,500 Baht
- Foreign participant 160 USD

Registration deadline: **30 November 2013**

Payment: Payment method is wire transfer, please make a payment to
Bank Name: Bangkok Bank, Thailand Science Park Branch
Savings Account Name: BIOTEC - National Center for Genetic Engineering and Biotechnology
Account No.: 080-0-002800
Swift Code: BKKBTHBK **Bank Code:** 0080
Bank Address: 111 Phaholyothin Road, Klong Nueng, Klong Luang, Pathumthani 12120, Thailand

General information:
All of the participants must be responsible for their own accommodation and transportation.

Public transportation to Thailand Science Park
Air-conditioned bus routes:

- No. 29 (Bangkok Railway Station - Thammasart University, Rangsit)
- No. 39 (Grand Palace - Thammasart University, Rangsit)
- No. 510 (Victory Monument - Thammasart University, Rangsit - Thai Market)

Air-conditioned van routes:

- No. 118 (Mo Chit BTS Sky Train Station - Thailand Science Park)
- No. 85 (Victory Monument - Thammasart University, Rangsit)

Accommodation
Suggested accommodation:

- Sirindhorn Science Home (SSH) - Located in Thailand Science Park (TSP)
  - Twin room (2 beds) 800 Baht/ night including Breakfast
  - Dormitory (4 beds) 1,500 Baht/ night including Breakfast

  Tel: (66) 2529 7100 ext. 77235 Fax: (66) 2529 7147
  Website : http://www.nstda.or.th/ssh E-mail: chanpen@nstda.or.th

- Institute of East Asian Studies - A 15 minute-walk from TSP

  Tel: (66) 2564 5000 – 3 ext. 314

  Website: http://www.asia.tu.ac.th/ieas/ieas_buiding.htm

Workshop program

Day I: 11 December 2013

08:30 – 09:00	Registration
09:00 – 09:30	Welcome and introduction
	Session 1: Introduction and regulations
09:30 – 10:00	**Mycotoxins: Introduction and regulations in Thailand**
	By Representative The National Bureau of Agricultural Commodity and Food Standard (ACFS)
10:00 – 10:30	**Mycotoxin regulations worldwide**
	By Roland Poms MoniQA and ICC, Austria
10:30 – 10:45	Coffee break
	Session 2: Current situations and impacts
10:45 – 11:30	**Global situations and impacts of Mycotoxin in food safety and food security**
	By Vish Prakash Council of Scientific and Industrial Research (CSIR) International Society for Nutraceuticals, Nutritionals And Naturals (ISNNAN), India
11:30 – 12:15	**Current situation and studies of Mycotoxin in Thailand**
	By Natthasit Tansakul Kasetsart University, Thailand
12:15 – 13:15	Lunch
	Session 3: Risk assessment and management
13:15 – 14:00	**Risk assessment and risk management strategies – the European example**
	By Roland Poms MoniQA and ICC, Austria
14:00 – 15:00	**A HACCP based approach in mycotoxin management**
	By Ronald Niemeijer Trilogy Analytical Service, USA
15:00 – 15:15	Coffee break
15:15 – 16:00	**The role of Traditional and Ethnic Foods and its ingredients in the prevention of mycotoxins in Foods**
	By Vish Prakash Council of Scientific and Industrial Research (CSIR) International Society for Nutraceuticals, Nutritionals And Naturals (ISNNAN), India
16:00 – 17:00	**Panel discussion with all speakers: Interactive with participants**
18:00 – 20:00	**Reception dinner** [Place to be informed]

Day II: 12 December 2013

	Session 4: Mycotoxin analysis – available methods and challenges
09:00 – 9:45	**HPLC and Mass Spectrometric Methods for multimycotoxin analysis and confirmatory method** By Tan Limien Romer Labs, Singapore
09:45 – 10:15	**Quality control in mycotoxin analysis** By Ronald Niemeijer Trilogy Analytical Laboratory, USA
10:15 – 10:30	Coffee break
10:30 – 12:00	**Presentations (30 min each) on methods to be explored/ demonstrated in the afternoon:** By Romer Labs, Singapore R-Biopharm, Thailand/Germany Trilogy Analytical Laboratory, USA
12:00 – 13:00	Lunch
	*Session 5: Mycotoxin analysis – **Lab session***
13:00 – 16:00	In parallel groups: "proficiency testing" – one of the pillars of QC in mycotoxin analysis – by using rapid testkits (lateral flow, ELISA – to be performed by the participants) in combination with reference materials. Results can be presented on-site. Trilogy can supply the reference materials; R-Biopharm/Romer Labs could supply testkits. This would be "Mycotoxin Quality Control in Action."
16:00 – 16:30	**Discussion, Q&A and Conclusion**
16:30 – 17:00	**Closing and certification**

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For further information, please contact: Course Secretariat
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