

# FEEDS AND NUTRITION COURSE 2019

ZAANDAM | THE NETHERLANDS | JUNE 3 - 7, 2019

'The course is specially designed for animal nutrition specialists'

## MODULE 5 | MYCOTOXINS

The increased levels and variety of mycotoxins in feedstuffs and consequently in feeds poses unpredictable feed safety problems worldwide. In brief, these substances affect the gastrointestinal tract in a negative sense. Most of all know what are mycotoxins, where they occur, and their main effects in different animal species, especially when acute contamination is considered. However, prevention and remediation of mycotoxins remains a challenge under subclinical and asymptomatic circumstances, where economic losses cannot be always avoided. Furthermore, climate change cannot be neglected and play an important role on mycotoxins contamination in commodities. And last, but not least, the interaction of mycotoxins with other mycotoxins, with veterinary drugs, parasites, host microbiome, as well as with feedstuff components must be in mind when evaluating risks.

### Learning objective

This dynamic one-day course was formulated to offer the knowledge from the basic to the most recent findings related to mycotoxins. The course has alternate sections of theoretical and practical exercises, and the participants are invited to interact sending questions (up to May 24<sup>th</sup>) that they would like to get answered/discussed during the course.

### FRIDAY JUNE 7

- 5.1 Welcome and introduction
- 5.2 Definition of mycotoxins, distribution, and main adverse effects
- 5.3 Assignment A
- 5.4 Legal requirements, sampling and analysis
- 5.5 Assignment B
- 5.6 Climate change and emerging/neglected mycotoxins
- 5.7 Mycotoxins interactions: other mycotoxins, drugs, nutrients, host microbiota
- 5.8 Preventive strategies around mycotoxins
- 5.9 Remediation of mycotoxins at feed and animal levels
- 5.10 Case studies focusing on different animal species

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