

Determining Mycotoxins And Mycotoxigenic Fungi In Food And Feed Woodhead Publishing Series In Food Science Technology

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Determining Mycotoxins And Mycotoxigenic Fungi

Mycotoxins - toxic secondary metabolites produced by mycotoxigenic fungi - pose a significant risk to the food chain. Indeed, they may be the most hazardous of all food contaminants in terms of chronic toxicity and legislative limits on their levels in food and feed continue to be developed worldwide.

Determining Mycotoxins and Mycotoxigenic Fungi in Food and ...

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Determining Mycotoxins and Mycotoxigenic Fungi in Food and ...

This book reviews current and emerging methods for the determination of both mycotoxigenic fungi and mycotoxins in food and feed. Part one focuses on the essentials of mycotoxin determination, covering sampling, sample preparation and clean-up and key determination techniques, such as chromatographic separation, liquid chromatography-mass spectrometry and immunochemical methods.

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Grapes can be infected by mycotoxigenic fungi, of which *Aspergillus carbonarius* producing ochratoxin A (OTA) is of highest concern. Climate is the most important factor in determining contamination once the fungi are established, with high temperatures being a major factor for OTA contamination: OTA in wine is at higher concentrations in warmer southern Europe than northern.

Predominant mycotoxins, mycotoxigenic fungi and climate ...

Determining mycotoxins and mycotoxigenic fungi in food and feed known include the ergot alkaloids from *Claviceps purpurea* and *C. paspali*, but since the outbreaks of 'St. Anthony's fire' in the middle ages many other mycotoxins were discovered, for example T-2 toxin during World War II and in 1960, when mycotoxins became famous by the outbreak of the aflatoxin induced 'turkey Xdisease ...

Determining mycotoxins and mycotoxigenic fungi in ...

Determining host-plant resistance to mycotoxigenic fungi and mycotoxin accumulation is a fundamental step towards developing commercially tolerant plant varieties. Several factors require careful consideration when screening materials for resistance to mycotoxigenic fungi and their mycotoxins.

Preharvest Management Strategies and Their Impact on ...

The term mycotoxin is derived from the Greek word *mycos*, for fungus, and the Latin word *toxicum*, for poison. 3 Nearly 400 types of mycotoxins have been identified so far, but not all secondary metabolites synthesized by fungi "fit" within the group of mycotoxins. 3 Also, not all fungi are mycotoxigenic (mycotoxin producers). 4 Six major classes of mycotoxins have been defined: aflatoxins ...

Mycotoxins - an overview | ScienceDirect Topics

Focuses on the essentials of mycotoxin determination, covering sampling, sample preparation, clean-up and key determination techniquesDocuments quality assurance and official methods and performance criteria for determining mycotoxins in food and feedExplores the processes of determining mycotoxigenic fungi in food and feed including the identification of genes and gene clusters.\span>"@ en ...

Determining mycotoxins and mycotoxigenic fungi in food and ...

Beginning with a section on fungal genera and species of major significance along with their associated mycotoxins, the book continues with sections on Polymerase Chain Reaction (PCR)-based methods for the detection and identification of mycotoxigenic fungi, PCR-based methods for multiplex detection of mycotoxigenic fungi, as well as sections on combined approaches and new methodologies.

Mycotoxigenic Fungi | SpringerLink

Determining Mycotoxins and Mycotoxigenic Fungi in Food and Feed (Woodhead Publishing Series in Food Science, Technology and Nutrition) Sarah De Saegar Mycotoxins - toxic secondary metabolites produced by mycotoxigenic fungi - pose a significant risk to the food chain.

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Mycotoxigenic Fungi - Methods and Protocols | Antonio ...

Get this from a library! Determining mycotoxins and mycotoxigenic fungi in food and feed. [Sarah De Saeger;] -- Annotation Mycotoxins - toxic secondary metabolites produced by mycotoxigenic fungi pose a significant risk to the food chain. Indeed, they may be the most hazardous of all food contaminants in ...

Determining mycotoxins and mycotoxigenic fungi in food and ...

Mycotoxins are toxic secondary fungal metabolites produced by certain types of filamentous fungi, such as *Aspergillus*, *Fusarium*, and *Penicillium* spp. Mycotoxigenic fungi and their produced mycotoxins are considered to be an important issue in food and feed safety due to their toxic effects like carcinogenicity, immunosuppression, neurotoxicity, nephrotoxicity, and hepatotoxicity on humans and ...

Current PCR-based methods for the detection of ...

A multiplex polymerase chain reaction (PCR) strategy was established for rapid identification of mycotoxigenic fungi, and an improved analytical method was developed for simultaneous multi-mycotoxin determination in wheat grains by liquid chromatography-tandem mass spectrometry (LC/MS/MS) without the need for any clean-up.

Rapid Detection and Identification of Mycotoxigenic Fungi ...

A preliminary study was undertaken aiming to determine the occurrence of mycotoxigenic fungi and mycotoxins contamination on red rice at consumer level in Selangor, Malaysia. Fifty red rice samples were obtained and subjected to fungal isolation, enumeration, and identification.

A preliminary survey on the occurrence of mycotoxigenic ...

Penicillium are very diverse and cosmopolite fungi, about 350 species are recognized within this genus. It is subdivided in four subgenera *Aspergilloides*, *Penicillium*, *Furcatum*, and *Biverticillium*; recently the first three has been included in *Penicillium* genus, and *Biverticillium* under *Talaromyces*. ...