



# Aflatoxin: Scientific Background, Control, and Implications

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## **Aflatoxin: Scientific Background, Control, and Implications**

Aflatoxin: Scientific Background, Control, and Implications discusses general problems posed by mycotoxin contamination in foods and feeds. This book is divided into 15 chapters that summarize the discovery, elaboration, chemistry and assay, effects and metabolic fate, processing to ensure their removal or inactivation, and regulatory aspects of aflatoxins.

The introductory chapters cover the discovery, formation by *Aspergillus flavus*, and the chemistry and structure of aflatoxins. The subsequent chapters describe the physicochemical and biological assays for aflatoxin measurement, detection, and analysis. A chapter also describes the metabolic fate and the biochemical alterations associated with aflatoxin administration to animals and other biological test systems. Discussions on the acute toxicity and carcinogenic activity of aflatoxins in laboratory and farm animals are also provided, with emphasis on the recognition of aflatoxicosis, a disease condition caused by the action of the aflatoxin poison. The book goes on examining the role of spoilage molds in destroying stored crops and the tremendous capacity for toxin production of aflatoxins. It also describes successful efforts of food and feed industries to ensure a wholesome food supply, including the utilization of various detoxification processes. The last chapters deal with the regulatory provisions for aflatoxin contamination control and tolerances and the implications of fungal toxins to human health.

The book is intended for scientists and manufacturers concerned with the production and processing of foods and feeds, the nutrition, and the animal and public health.

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