

## BOOK REVIEW - LIVRO\*

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MILLER, J. D. & TRENHOLM, H. L., ed. - **Mycotoxin in grain**. Compounds other than aflatoxin. St. Paul, Minnesota, Eagan Press, 1994. 551 p. illust. 23 cm.

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While mycotoxin research is focusing more and more on agriculturally important mycotoxins other than aflatoxin, few references have covered these mycotoxins in detail. This new book fills this void by providing a thorough presentation of the chemistry and biology of these mycotoxins and their impact on food safety, animal health, and productivity.

*Mycotoxins in Grain* covers mycotoxin molecular structures and spectroscopic data; preventative and storage issues including plant pathology and plant breeding for fungal resistance in affected crops; food safety issues including overall toxicology, immunotoxicology and the interactive affects of mixtures of mycotoxins; the consequences of mycotoxin contaminated grain including strategies used in risk assessments for mycotoxins in food, mycotoxin residues in animal products used for human food, and the economic impact of mycotoxins on agri-food production.

### **PARTIAL CONTENTS:**

- **The Genus Fusarium** - Breeding for resistance to Fusarium in wheat and maize; A compilation of spectral characteristics of secondary metabolites from Fusarium Fungi.
- **Aspergillus and Penicillium** - Penicillium toxins; ecological parameters affecting the growth of storage Fungi and the production of associated Mycotoxins.
- **Alternaria** - Alternaria toxins. Effects of Mycotoxins on animals.

- **Mycotoxins on Animals** - Immunotoxic effects of Mycotoxins; Toxicology of Mycotoxins; Residues in food products of animal origin.
- **Consequences for Humans** - Prevention of human Micotoxicoses through risk assessment and risk management; Human disease in which Mycotoxins have been suggested as among the causal factors.

Laboratory researches and technicians who need to isolate toxins or identify relationships among compounds will find the spectra invaluable. Spectral characteristics are presented clearly in an alphabetized 172 page section allowing quick reference and identification.

*Mycotoxins in Grain* compiles, in one substantial volume, the newest data in the areas of Biology, Chemistry, Toxicology, and Risk Assessment. The regulatory information in the book utilizes the new 1993 U. S. guidelines for acceptable levels and exposures (where applicable) but the scope of the book is international and includes contributions from 22 authors in four countries.

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\* Este livro encontra-se na Biblioteca do Instituto de Medicina Tropical de São Paulo.