

EVALUATION OF CERTAIN MYCOTOXINS IN FOOD

Third report of the
Joint FAO/WHO Expert Group
on Food Additives



Safety Evaluation Of Certain Mycotoxins In Food Pb 2001

Mahendra Rai,Ajit Varma



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Safety Evaluation of Certain Mycotoxins in Food Joint FAO/WHO Expert Committee on Food Additives. Meeting, Food and Agriculture Organization of the United Nations, 2001 This volume contains monographs prepared at the fifty sixth meeting of the Joint FAO WHO Expert Committee on Food Additives JECFA Five mycotoxins or groups of mycotoxins that contaminate food commodities were evaluated at the meeting aflatoxin M1 fumonisins B1 B2 and B3 ochratoxin A deoxynivalenol and T 2 and HT 2 toxins The monographs in this volume summarize the data that were reviewed on these contaminants including information on metabolism and toxicity epidemiology analytical methods for their measurement in food commodities sampling protocols effects of processing levels and patterns of contamination of food commodities food consumption and prevention and control Based upon this information the Committee assessed the risks associated with intake of these mycotoxins

Safety evaluation of certain contaminants in food World Health Organization, Food and Agriculture Organization of the United Nations, 2003-07-14 *Safety Evaluation of Certain Food Additives and Contaminants* Joint FAO/WHO Expert Committee on Food Additives. Meeting, World Health Organization, 2008-01-04 This volume contains monographs prepared at the sixty eighth meeting of the Joint FAO WHO Expert Committee on Food Additives JECFA which met in Geneva Switzerland from 19 to 28 June 2007 The toxicological monographs in this volume summarize the safety data on a number of food additives acidified sodium chlorite asparaginase from *Aspergillus oryzae* expressed in *Aspergillus oryzae* carrageenan and processed *Eucheima* seaweed cyclotetraglucose and cyclotetraglucose syrup isoamylase from *Pseudomonas amyloclavata* magnesium sulfate phospholipase A1 from *Fusarium venenatum* expressed in *Aspergillus oryzae* sodium iron III ethylenediaminetetraacetic acid EDTA and steviol glycosides Monographs on eight groups of related flavouring agents evaluated by the Procedure for the Safety Evaluation of Flavouring Agents are also included This volume also contains monographs summarizing the toxicological and intake data for the contaminants aflatoxins and ochratoxin A This volume and others in the WHO Food Additives series contain information that is useful to those who produce and use food additives and veterinary drugs and those involved with controlling contaminants in food government and food regulatory officers industrial testing laboratories toxicological laboratories and universities

Mycotoxins in Food, Feed and Bioweapons Mahendra Rai, Ajit Varma, 2009-10-26 Mycotoxins are made by different biosynthetic pathways and they have an extremely wide range of pharmacological effects This book will update readers on several cutting edge aspects of mycotoxin research including topics such as new analytical methods for detection the adoption of an ancient Mexican process for detoxification of aflatoxins mycotoxin management in Ireland Lithuania and South America mycotoxin reduction through plant breeding and integrated management practices and natural aflatoxin inhibitors from medicinal plants Further contributions examine ochratoxins selected trichothecenes zearalenone and aflatoxin like gene clusters as well as sclerotial development in *Aspergillus flavus* and *A. parasiticus* Of particular interest are the chapters on the potential use of mycotoxins

as bioweapons This book will stimulate new thinking on the need to develop therapeutic as well as preventative interventions to reduce the toxicological threat of mycotoxins **Mycotoxins in Food** N Magan, M Olsen, 2004-07-16 Mycotoxins toxic compounds produced by fungi pose a significant contamination risk in both animal feed and foods for human consumption With its distinguished editors and international team of contributors Mycotoxins in food summarises the wealth of recent research on how to assess the risks from mycotoxins detect particular mycotoxins and control them at differing stages in the supply chain Part one addresses risk assessment techniques sampling methods modelling and detection techniques used to measure the risk of mycotoxin contamination and the current regulations governing mycotoxin limits in food Part two looks at how the risk of contamination may be controlled with chapters on the use of HACCP systems and mycotoxin control at different stages in the supply chain Two case studies demonstrate how these controls work for particular products The final section details particular mycotoxins from ochratoxin A and patulin to zearalenone and fumonisins Mycotoxins in food is a standard reference for all those concerned with ensuring the safety of food Discusses the wealth of recent research in this important area Covers risk assessment detection of particular mycotoxins and how to control them throughout the supply chain Describes how the risk of contamination can be controlled including the use of HACCP systems Safety evaluation of certain food additives and contaminants ,2020-07-15 **Safety evaluation of certain food additives and contaminants:**

Prepared by the eightieth meeting of the Joint FAO/WHO Expert Committee on Food Additives (JECFA. [Author] Supplement 2: Pyrrolizidine alkaloids World Health Organization, Food and Agriculture Organization of the United Nations, 2024-05-31 This volume contains monographs prepared at the eightieth meeting of the Joint FAO WHO Expert Committee on Food Additives JECFA which met in Rome Italy from 16 to 25 June 2015 Author The toxicological and dietary exposure monograph in this volume summarizes the safety and dietary exposure data on a contaminant group pyrrolizidine alkaloids discussed at the eightieth meeting Author Monographs on seven food additives discussed at that meeting have been previously published in the WHO Food Additives series FAS 71 and a monograph on a second contaminant group non dioxin like polychlorinated biphenyls has been published as a separate supplement in the WHO Food Additives series Author This volume and others in the WHO Food Additives series contain information that is useful to those who produce and use food additives and veterinary drugs and those involved with controlling contaminants in food government and food regulatory officers industrial testing laboratories toxicological laboratories and universities Author *Mycotoxins Problem and its Management* S.M. Reddy, S. Girisham, V.K. Reddy, M. Surekha, 2010-10-05 Mycotoxins secondary metabolites of storage moulds have been receiving increasing attention in view of their undisputed role in public health Many books appeared conferences in different parts of the globe are being conducted which clearly indicate direct relation between the incidence of mycotoxigenic fungi degree of mycotoxin contamination and their prevalence revealed their relation to some of the human ailments Out of several mycotoxins aflatoxins ochratoxins A and fumonisins are posing serious health hazards specially in

Asian countries In spite of intensive and extensive studies related to mycotoxins the problems becoming intricate and intriguing and decisive conclusions could not be drawn and clear cut solutions are provided This book is divided into two parts First part deals with general aspects of mycotoxins covering areas of natural incidence taxonomy of mycotoxigenic fungi analytical techniques and mechanism of mycotoxins toxicity epidemiology and management of mycotoxins The second part deals with individual mycotoxins The detailed account of producing organisms detection biological activity and management practices specific to that of mycotoxins are discussed in individual chapters An attempt has been made to discuss mycotoxins problem with reference to Indian conditions In view of voluminous literature only comparatively recent and relevant literature is quoted and may be some important works might have been omitted Analysis of Food Toxins and Toxicants Yiu-Chung Wong, Richard J. Lewis, Sr., 2017-07-03 Analysis of Food Toxins and Toxicants consists of five sections providing up to date descriptions of the analytical approaches used to detect a range of food toxins Part I reviews the recent developments in analytical technology including sample pre treatment and food additives Part II covers the novel analysis of microbial and plant toxins including plant pyrrolizidine alkaloids Part III focuses on marine toxins in fish and shellfish Part IV discusses biogenic amines and common food toxicants such as pesticides and heavy metals Part V summarizes quality assurance and the recent developments in regulatory limits for toxins toxicants and allergens including discussions on laboratory accreditation and reference materials

Some Traditional Herbal Medicines, Some Mycotoxins, Naphthalene and Styrene IARC Working Group on the Evaluation of Carcinogenic Risks to Humans, International Agency for Research on Cancer, 2002 This monograph evaluates the carcinogenic risks to humans posed by the use of some traditional herbal medicines fumonisin B1 and the industrial organic chemicals naphthalene and styrene and provides an update of the data on the carcinogenicity of aflatoxin

Food Safety in China Joseph Jwu-Shan Jen, Junshi Chen, 2017-03-13 From contaminated infant formula to a spate of all too familiar headlines in recent years food safety has emerged as one of the harsher realities behind China's economic miracle Tainted beef horse meat and dioxin outbreaks in the western world have also put food safety in the global spotlight Food Safety in China Science Technology Management and Regulation presents a comprehensive overview of the history and current state of food safety in China along with emerging regulatory trends and the likely future needs of the country Although the focus is on China global perspectives are presented in the chapters and 33 of the 99 authors are from outside of China Timely and illuminating this book offers invaluable insights into our understanding of a critical link in the increasingly globalized complex food supply chain of today's world Evaluation of Certain Food Additives and Contaminants Joint FAO/WHO Expert Committee on Food Additives. Meeting, World Health Organization, 2007 This report represents the conclusions of a Joint FAO WHO Expert Committee convened to evaluate the safety of various food additives including flavoring agents with a view to recommending acceptable daily intakes ADIs and to preparing specifications for identity and purity The Committee also evaluated the risk posed by two food contaminants with

the aim of advising on risk management options for the purpose of public health protection Annexed to the report are tables summarizing the Committee's recommendations for intakes and toxicological evaluations of the food additives and contaminants considered

Mycotoxins Study Cristina Juan García, 2021-09-07 The evaluation of the presence of mycotoxins in different matrices is achieved through different analytical tools including quantitative or qualitative determinations Studies of mycotoxin isolation using chromatographic equipment coupled to spectrometry detectors QTrap MS MS MS MS MS tandem QTOF MS MS are the most useful tools to control their presence All these studies represent key steps in the establishment of the limits of detection limits of quantification points of identification accuracy reproducibility and repeatability of different procedures The maximum permitted or recommended levels for mycotoxins in different matrices are within a wide range including the levels tolerated by infants and animals In addition decontaminated strategies as well as control and evaluation of exposure are demanded by authorities and food safety systems These authorities are not only concerned with the determination of mycotoxin presence but also with the toxicological effects of mycotoxins and in vivo or in vitro assays are necessary for a complete evaluation In fact these assays are the basis for the control and prevention of population exposure to mycotoxins in dietary exposure studies The most recent surveys focused on regulated mycotoxins aflatoxins fumonisins trichothecenes and zearalenones and emerging toxins such as enniatins and beauvericin in adult consumers while very few studies have monitored mycotoxin levels in infant products This Book of Toxins comprises 11 original contributions and one review New findings regarding presence of mycotoxins in aromatic and medicinal plants mango and orange juice juices pulps jams and beer from Morocco Pakistan and Portugal are reported In these studies innovative techniques to study their presence has been developed including liquid chromatography coupled with time of flight mass spectrometry to analyse mycotoxins and conjugated mycotoxins Novel strategies to detect mycotoxin presence and comparisons the characteristics of a rapid quantitative analysis of different mycotoxins deoxynivalenol ochratoxin A patulin sterigmatocystin and zearalenone are also presented using acetyl and butyrylcholinesterases and photobacterial strains of luminescent cells Additionally toxicological effects of zearalenone metabolites and beauvericin on SH SY5Y neuronal cells are presented One important point in the control of mycotoxins is related to decontaminated strategies and in this sense the efficacy of potentially probiotic fruit derived Lactobacillus isolates in removing aflatoxin M1 AFM1 is presented Other mycotoxin decontaminated techniques included in this book are electron beam irradiation EBI and degradation of zearalenone and ochratoxin A using ozone Finally a review that summarizes the newly discovered macrocyclic trichothecenes and their bioactivities over the last decade is included

Food Safety Management Veslemøy Andersen, Huub L. M. Lelieveld, Yasmine Motarjemi, 2023-03-28 Food Safety Management A Practical Guide for the Food Industry Second Edition continues to present a comprehensive integrated and practical approach to the management of food safety throughout the production chain While many books address specific aspects of food safety no other book guides you through the various

risks associated with each sector of the production process or alerts you to the measures needed to mitigate those risks This new edition provides practical examples of incidents and their root causes highlighting pitfalls in food safety management and providing key insights into different means for avoiding them Each section addresses its subject in terms of relevance and application to food safety and where applicable spoilage The book covers all types of risks e g microbial chemical physical associated with each step of the food chain making it an ideal resource Addresses risks and controls at various stages of the food supply chain based on food type including a generic HACCP study and new information on FSMA Covers the latest emerging technologies for ensuring food safety Includes observations on what works and what doesn't on issues in food safety management Provides practical guidelines for the implementation of elements of the food safety assurance system Explains the role of different stakeholders of the food supply

Xenobiotics in the Urban Water Cycle Despo Fatta-Kassinos, Kai Bester, Klaus Kümmerer, 2010-01-06 The history of chemistry and pharmaceutical sciences is an impressive success story The products of chemical and pharmaceutical industries are present everywhere in our everyday life They help to pursue the modern way of living and they contribute to our high standard of living and safety mobility communication technologies food health textiles and drinking water treatment among many others These products are labeled under the categories pharmaceuticals pesticides detergents fertilizers dyes paints preservatives food additives and personal care products to name a few Within these categories groups of chemicals with similar structures can be found However often groups of chemicals with very different structures belong to the same category For a long time the production of chemicals and pharmaceuticals their usage and application was connected with the heavy pollution of the environment and serious health effects At the end of the last century it was realised that the products of chemical and pharmaceutical industries are presenting a new type of environmental pollution that may also pose a health risk to the consumer Most chemicals are used in so called open applications in excessive amounts e g for personal care hygiene plant protection health and in textiles In many cases such as scents detergents textile chemicals surface disinfectants pesticides and others it is unavoidable that these chemicals are released into the environment according to their intended use

New and Future Developments in Microbial Biotechnology and Bioengineering Joginder Singh Panwar, Praveen Gehlot, 2020-08-19 New and Future Developments in Microbial Biotechnology and Bioengineering Recent Advances in Application of Fungi and Fungal Metabolites Applications in Healthcare presents an account of recent development and applied aspects of fungi and its metabolites in the healthcare sector Chapters are written by eminent researchers emphasizing the incredible role of fungi and its metabolites in the field of medicine This book offers reference material to all mycologists working on the exploration and usage of medicinal aspects of fungi and fungal metabolites Introduces the aspects and advances of fungi and fungal metabolites in healthcare Includes a description of traditional uses and modern practices on how to harness the potential of fungi and its metabolites in healthcare applications Provides details surrounding the use of fungi and its metabolites in

medical purposes Describes potential manifold prospects of fungi and fungal metabolites **Aflatoxin and Food Safety**
Hamed K. Abbas,2005-11-01 Aflatoxins are responsible for damaging up to 25% of the world s food crops resulting in large economic losses in developed countries and human and animal disease in under developed ones In addition to aflatoxins the presence of other mycotoxins particularly fumonisins brings additional concerns about the safety of food and field supplies
The **Mycotoxins in Feed and Food Chain** Filippo Rossi,2021-01-21 The book deals with mycotoxins their presence in various types of food and how to prevent their presence in food In addition to well known molecules such as aflatoxins or fumonisins some contributors have dealt with emerging mycotoxins e g alternaria toxins botryodiplodin Readers of the book can also find a new approach to reducing aflatoxins and fumonisins in food In conclusion the book presents both new mycotoxins and new information on old mycotoxins *Analysis of Endocrine Disrupting Compounds in Food* Leo M. L. Nollet,2011-06-09 Analysis of Endocrine Disrupting Compounds in Food provides a unique and comprehensive professional reference source covering most of the recent analytical methodology of endocrine disrupting compounds in food Editor Nollet and his broad team of international contributors address the most recent advances in analysis of endocrine disrupting chemicals in food While covering conventional typically lab based methods of analysis the book focuses on leading edge technologies that recently have been introduced The book looks at areas such as food quality assurance and safety Issues such as persistent organic pollutants monitoring pesticide and herbicide residues in food determining heavy and other metals in food and discussing the impacts of dioxins PCBs PCDFs and many other suspected chemicals are covered The book discusses the relationship between chemical compounds and hormone activity What are the health impacts of different chemical compounds for men and animals How are these compounds entering in foodstuffs Analysis of Endocrine Disrupting Compounds in Food offers the food professional what its title promises a compendium of sample preparation and analysis techniques of possible endocrine disrupting compounds in food Special Features Uniquely concentrates on analysis and detection methods of EDCs in foodstuffs Extensive coverage of the main types of globally available analytical techniques and methodologies Fully detailed properties sample procedures and analysis steps for each EDC Renowned editor Leo Nollet leads a broad team of international experts *Scientific Criteria to Ensure Safe Food* National Research Council,Institute of Medicine,Division on Earth and Life Studies,Board on Agriculture and Natural Resources,Food and Nutrition Board,Committee on the Review of the Use of Scientific Criteria and Performance Standards for Safe Food,2003-09-29 Food safety regulators face a daunting task crafting food safety performance standards and systems that continue in the tradition of using the best available science to protect the health of the American public while working within an increasingly antiquated and fragmented regulatory framework Current food safety standards have been set over a period of years and under diverse circumstances based on a host of scientific legal and practical constraints Scientific Criteria to Ensure Safe Food lays the groundwork for creating new regulations that are consistent reliable and ensure the best protection for the

health of American consumers This book addresses the biggest concerns in food safety including microbial disease surveillance plans tools for establishing food safety criteria and issues specific to meat dairy poultry seafood and produce It provides a candid analysis of the problems with the current system and outlines the major components of the task at hand creating workable streamlined food safety standards and practices

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