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Mycotoxins in Seeds and Nuts - ScienceDirect

A mycotoxin (from the Greek μύκης mykes, "fungus" and τοξικόν toxikon, "poison") is a toxic secondary metabolite produced by organisms of the fungus kingdom and is capable of causing disease and death in both humans and other animals. The term 'mycotoxin' is usually reserved for the toxic chemical products produced by fungi that readily colonize

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crops.

***Mycotoxins : risks in plant,
animal, and human systems***

...

***Natural toxins in food and
feed are considered important
food safety issues of growing
concern, in particular
mycotoxins, phycotoxins and
plant toxins. Most scientific
developments have occurred
in the past few decades in the
area of mycotoxins. Formal
health risk assessments have
been carried out by the Joint
Expert Committee on Food
Additives of the World Health
Organization and the Food
and ...***

Mycotoxin - Wikipedia

CAST, "Mycotoxins: Risk in plant and animal systems," Task Force Report 38. Council Agri. Sci. Technol. Ames, IA., 2003 Toxins derived from *Fusarium moniliforme*: Fumonisin B1 and B2 and fusarin C

Biomin - Mycofix® - Mycotoxins and poultry production ... Council for Agricultural Science and Technology 2003. Mycotoxins: Risks in Plant, Animal, and Human Systems. Task force report 139. Ames, IA: Council for Agricultural Science and Technology. Cullen JM, Newberne PM. 1994. Acute hepatotoxicity of aflatoxins.

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Fungal infection and aflatoxin contamination in maize ...

Mycotoxins – risks in plant, animal and human systems, Task Force Report, No. 139, Council for Agricultural Science and Technology, Ames, Iowa (2003), pp. 1-191
Chesemore, 1993 R.G.

Chesemore Letter to state agricultural directors, state feed control officials and food, feed and grain trade organizations, FDA Associate Commissioner for Regulatory Affairs, Sept. 16, 1993

The Presence of Some Mycotoxins in Corn Grown in Turkey ...

Published by the Council of

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Agricultural Science and Technology (CAST, January 2003), this extensive report compiles the most current, complete information on mycotoxins in order to provide an understanding of their associated risks and impacts on plant, animal, and human systems. 199 pgs.

***Workgroup Report: Public Health Strategies for Reducing ...
Education Center -
Introductory - Topics in Plant Pathology - Mycotoxins -
References...David G.
Schmale III Virginia
Polytechnic Institute and
State University, Blacksburg,
VA Gary P. Munkvold Iowa***

State University, Ames, IA
REFERENCES Aldred, D., N.
Magan, and M. Olsen. 2004.
The use of HACCP in the
control of mycotoxins: the
case of cereals.

Mycotoxins in Crops: A Threat
to Human and ... - References
By Paula Kovalsky, Product
Manager, Mycotoxin Risk
Management BIOMIN Holding
GmbH. Mycotoxins can be
present on a crop in the field
or can affect stored grain
(Bennett et al., 2003). Many
mycotoxin-producing fungi
are able to produce more than
one type of mycotoxin.

Mycotoxins: Risks in Plant,
Animal, and Human Systems

**book Mycotoxins : risks in
plant, animal, and human
systems Published in 2003 in
Ames Iowa by Council for
Agricultural Science and
Technology**

**Natural toxins: risks,
regulations and the analytical**

...

**Mycotoxins and poultry
production. Mycotoxins are
substances produced by fungi
imperfecti which, in some
cases, do protect plants or
plant seeds against parasites
(Schardl et al., 1996).**

**However, upon ingestion,
inhalation or dermal contact,
these mold-produced
substances are poisonous to
vertebrates.**

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***Mycotoxin Reduction in Bt
Corn: Potential ... -
SpringerLink***

In addition to corn and spices, peanuts, cottonseed, Brazil nuts, pistachios, and copra are included in the group of commodities with a high risk of aflatoxin contamination, whereas almonds, pecans, and walnuts are in the lower risk group (CAST, 2003).

CAST (2003) Mycotoxins: risks in plant animal and human ... Abstract. Groundnut is an important cash crop for domestic markets as well as for foreign trade in several developing and developed countries. It is also one of the

most valuable cash crops in eastern Ethiopia. However, its production is constrained by Aspergillus species, which cause quantitative losses and produce highly toxic...

Some major mycotoxins and their mycotoxicoses—An overview ...

Note: Citations are based on reference standards.

However, formatting rules can vary widely between applications and fields of interest or study. The specific requirements or preferences of your reviewing publisher, classroom teacher, institution or organization should be applied.

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Mycotoxins: Risks in plant, animal and human systems ... Task Force Reports - R139 - January 2003 Download Publication This extensive report compiles the most current, complete information available on mycotoxins in order to provide an understanding of their associated risks and impacts on plant, animal, and human systems.

2003 Mycotoxins Risks In Plant

Humans may be exposed to mycotoxins through contaminated foods of plant origin, in the products of animals fed by contaminated

feed, and through air and dermal contact (Richard et al. 2003). Mycotoxins also indirectly lead to economic losses: it is impossible to sell contaminated grains,...

CAST (Council for Agricultural Science and Technology ... Since the discovery of the aflatoxins in the 1960s, regulations have been established in many countries to protect consumers from the harmful effects of mycotoxins that may contaminate foodstuffs, as well as to ensure fair practices in food trade. Various factors play a role in decision-making processes focused on setting limits for

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mycotoxins.

***Changes in mycotoxin risks |
Feedipedia***

***In less developed countries
where certain mycotoxins are
significant contaminants of
food, Bt corn adoption, by
virtue of its mycotoxin
reduction, may even improve
human and animal health.***

***This paper describes an
integrated assessment model
that analyzes the economic
and health impacts of two
mycotoxins in corn: fumonisin
and aflatoxin.***

***Mycotoxins : risks in plant,
animal, and human systems***

...

CAST (2003) Mycotoxins: risks

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in plant animal and human systems. Ames, Iowa: Council for Agricultural Science and Technology. 199. □□□□□□□□
TITLE: Evaluation of an Oral Subchronic Exposure of Deoxynivalenol on the Composition of Human Gut Microbiota in a Model of Human Microbiota-Associated Rats

Worldwide regulations for mycotoxins in food and feed in 2003

Humans are exposed to aflatoxins mostly by consuming contaminated foods containing fungal metabolites at threshold levels. Most of the developing countries in Africa, risk of

aflatoxins contamination have been companion with increase risk of hepatocellular carcinoma and esophageal cancer respectively (CAST 2003; Murugavel et al. 2007). Although there is no direct evidence still available that demonstrate that aflatoxins affected food consumption leads to cancer in Ethiopia.

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