

Table S1. Main mycotoxins, fungal producing species, major contaminated foodstuffs, and their effects on humans and animals [11-14].

Mycotoxins	Fungal species	Contaminated foodstuffs	Toxic effects
AFs	<i>A. flavus</i> , <i>A. parasiticus</i> , <i>A. Nomius</i> , <i>Penicilium</i>	cereals, fruits, dried fruits, milk	Carcinogenicity, hepatotoxicity, teratogenicity, suppression of immune systems, alteration of DNA structure, hepatitis, hemorrhage, renal lesions
Trichothecenes (DON, T2, HT2...)	<i>F. graminarum</i> , <i>F. culmorum</i> , <i>F. sporotrichioides</i>	Cereals and legumes	Induction of apoptosis in progenitors, hematopoietic tissue and immune cells, impact on protein synthesis, alteration of immunoglobulins
OTA	<i>A. ochraceus</i> , <i>P. nordicum</i> , <i>P. verrucosum</i> , <i>A. carbonarius</i> , <i>A. niger</i> , <i>A. Alliaceus</i> , <i>A. terreus</i>	Wine, grapes, coffee, cocoa, Cereals	Kidney and liver damage, loss of appetite, nausea and vomiting, immune system suppression, carcinogenic
FB	<i>F. moniliforme</i> , <i>F. verticillioides</i> , <i>F. Proliferatum</i>	Cereals (corn)	Carcinogenic, neurogenic, liver damage
Patulin	<i>A. cyclopium</i> , <i>P. expansum</i> , <i>P. granulatum</i> , <i>Paecilomyces varioti</i>	Cereals and fruits	Brain hemorrhage, neural disorders, skin lesions, skin cancer, lung, mutagenicity, antibacterial impact
ZEA	<i>F. graminearum</i> , <i>F. culmorum</i> , <i>F. semitectum</i>	Cereals	Carcinogenic, hormonal imbalance, estrogenic effect, reproductive problems, teratogenic