

Molds and Mycotoxins

Molds can produce many allergic reactions, like asthma, but can also sometimes produce toxins.

Our urinary mold toxin testing can accurately measure excessive exposure to mold and implicate degrees of exposure, which can cause a variety of diseases.

Some Mycotoxins that might occur in indoor environments

Mycotoxin	Producing Organisms	Health Effects, Primarily from Ingestion, Injection, or Dermal Exposure
Aflatoxins	<i>Aspergillus flavus</i> , other <i>Aspergillus spp.</i>	Forms DNA adducts, hepatotoxic, carcinogenic, immunotoxic
Alternariol	<i>Alternaria spp.</i>	Cytotoxic, teratogenic
Citrinin	<i>Penicillium expansum</i>	Carcinogenic
Chaetoglobosins	<i>Chaetomium globosum</i>	Inhibits cell division
Cytochalasins	<i>Aspergillus clavatus</i>	Inhibits cell division
Epichlorosporic acid	<i>Cladosporium spp.</i>	Immunosuppressive
Fumonisin	<i>Fusarium spp.</i>	Inhibits sphingolipid biosynthesis, neurotoxic, hepatotoxic, nephrotoxic, carcinogenic
Fumitremorgens	<i>Aspergillus fumigatus</i>	Tremorgenic
Gliotoxin	<i>Aspergillus fumigatus</i> , <i>Gliocladium</i>	Blocks membrane thiol groups, immunosuppressive, cytotoxic
Griseofulvin	<i>Memnoniella</i> , <i>P. griseofulvum</i> , <i>P. viridicatum</i>	Hepatotoxic, tumorigenic, teratogenic
Mycophenolic acid	<i>Penicillium brevicompactum</i>	Blocks inside monophosphate dehydrogenase, immunosuppressive
Ochratoxins	<i>Aspergillus ochraceus</i> , <i>Penicillium viridicatum</i>	Forms DNA adducts, inhibits protein synthesis (phenylalanyl-t-RNA synthetase), nephrotoxic, carcinogenic
Patulin	<i>Paecilomyces variatii</i> , <i>P. expansum</i>	Inhibits potassium uptake, possible carcinogen
Trichothecenes-satratoxins, verrucarins, roridins	<i>Stachybotrys chartarum</i> , <i>Fusarium spp.</i> , <i>Myrothecium</i>	Inhibits protein and nucleic acid synthesis, immunosuppressive, hemotoxic, hemorrhagic
Sporidesmin	<i>Pithomyces chartarum</i>	Hepatotoxic
Stachybotrylactams and lacones	<i>Stachybotrys chartarum</i>	Immunosuppressive
Sterigmatocystin	<i>Aspergillus versicolor</i> , <i>A. niger</i> , <i>A. nidulans</i>	Hepatotoxic, carcinogenic
Tenuazonic acid	<i>Alternaria alternate</i> , <i>Phoma sojae</i>	Nephrotoxic, hepatotoxic, hemorrhagic
Verrucosidin	<i>Penicillium polonicum</i>	Neurotoxic