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Toxins – Fungal toxins are generally broken up into two categories (1) secondary metabolic products such as mycotoxins and volatile organic compounds and (2) structural components such as β -(1-3)-D-Glucans. These toxins vary greatly in their size, composition, and toxicity.

Mycotoxins – are nonvolatile secondary metabolic compounds that are produced as a result of other fungal processes. They are of interest to humans because they often pose a significant health risk to humans and other mammals. They are produced by a variety of different fungi but the most well known of these are *Aspergillus*, *Stachybotrys*, *Penicillium*, and *Fusarium*. The kind, amount, as well as toxicity varies widely from species to species and even within the species with some strains producing more toxin than others. There are many environmental factors that can effect mycotoxin production such as temperature, ph, and growing substrate.

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Water Intrusion Fungi	Mycotoxin Production
Aspergillus flavus	Aflatoxin B
	Cyclopiazonic Acid
Aspergillus niger	Ochratoxin A
Aspergillus ochraceus	Ochratoxin A
	Penicillic Acid
Aspergillus versicolor	Sterigmatocystin
	5-Methoxysterigmatocystin
Chaetomium species	Chaetoglobosin A, B & C
	Sterigmatocystin
Emericella nidulans	Sterigmatocystin
Memnoniella species	Griseofulvin
	Dechlorogriseofulvin
	Epi-dechlorogriseofulvin
	Trichodermin
	Trichodermol
Penicillium aurantiocandidum	Penicillic acid
Penicillium aurantiogriseum	Penicillic acid
Penicillium brasilanum	Penicillic acid
Penicillium brevicompactum	Mycophenolic acid

Penicillium camemberti	Cyclopiazonic Acid
Penicillium carneum	Mycophenolic acid
	Roquefortine C
Penicillium citrinum	Citrinin
Penicillium commune	Cyclopiazonic acid
Penicillium crustosum	Roquefortine C
Penicillium chrysogenum	Roquefortine C
Penicillium discolor	Chaetoglobosin C
Penicillium expansum	Citrinin
	Roquefortine C
Penicillium freii	Penicillic acid
Penicillium griseofulvum	Roquefortine C
	Cyclopiazonic acid
	Griseofulvin
Penicillium hirsutum	Roquefortine C
Penicillium hordei	Roquefortine C
Penicillium melanoconidium	Penicillic acid
	Roquefortine C
Penicillium nordicum	Ochratoxin A
Penicillium paneum	Roquefortine C

Penicillium palitans	Cyclopiazonic acid
Penicillium polonicum	Penicillic acid
Penicillum roqueforti	Roquefortine C
	Mycophenolic acid
Penicillium veridicatum	Penicillic acid
Penicillium verrucosum	Citrinin
	Ochratoxin A
Stachybotrys chartarum	Iso-satratoxin F
	Roridin E, L-2
	Satratoxin G & H
	Trichodermin
	Trichodermol
Trichoderma species	Trichodermin
	Trichodermol