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# **Basidiospores**

Spore category. Produced by mushrooms, puffballs, shelf fungi, rusts, smuts, and many other fungi.

## Characteristics

## Distribution

Approx. 1,200 genera.

#### Where Found

Saprophytes and plant pathogens. gardens, forests, woodlands.

#### Mode of Dissemination

Wind; spore release (active mechanism) during periods of high humidity or rain.

#### **Growth Indoors**

Serpula lacrimans, the agent of "dry rot," and other fungi causing white and brown wood rot, grow and destroy the structural wood of buildings. Poria incrassata causes a particularly destructive dry rot in buildings.

## **Industrial Uses**

Many mushrooms are edible, and very important in the food industries.

## **Other Comments**

Occasionally, a benign, non-wood rotting mushroom will fruit inside a building, growing in some unique ecological niche if enough moisture is present. If mushrooms are found growing indoors, we ask clients to submit the entire mushroom for identification.

## Potential Health Effects

### Allergens

Probably common. Type I allergies (hay fever, asthma). Type III hypersensitivity pneumonitis: Lycoperdonosis (puffball spores), Mushroom culture hypersensitivity.

## **Potential Opportunist or Pathogen**

Asexual forms may cause rare opportunistic infections. The yeast Cryptococcus neoformans is a basidiomycete.

# **Potential Toxin Product**

Mushroom toxicosis (poisoning) is usually a result of ingestion of the following toxins: amanitins, monomethyl-hydrazine, muscarine, ibotenic acid, psilocybin.

# **Laboratory Notes**

## **Growth/Culture Characteristics**

Most Basidiomycetes will not fruit on laboratory media. Many will form arthrosporic or sterile mycelia on laboratory media.

## **Spore Trap Recognition**

Most basidiospores have a distinctive asymmetrical attachment point. Many basidiomycetes have recognizable spores. Serpula, the agent of dry rot, with tanorange basidiospores, can sometimes be identified on spore trap slides.





