

# *Pyrenophora teres*

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*Pyrenophora teres* is a necrotrophic fungal pathogen of some plant species, the most significant of which are economically important agricultural crops such as barley. Toxins include aspergillomarasmine A and related compounds.<sup>[1]</sup>

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## Dispersal and spread

The spores of *P. teres* are usually carried by wind. Growth of the organism on a host plant causes symptoms including necrosis, senescence and eventually cell death. In countries like Australia, damage from *Pyrenophora* can have serious economic consequences and reduce farm yields by up to 50%. Host tissue is obtained by penetration of the cell with an appressorium, a bulbous formation produced by the fungus that allows the uptake of nutrients.

## Role of reactive oxygen species

During plant-fungal interactions involving *Pyrenophora*, resistant and susceptible varieties of barley display differential levels of reactive oxygen species production. This implicates ROS as having a central role in plant resistance, along with their regulators, known as ROS scavengers

## References

- Friis P, Olsen CE, Møller BL (1991). "Toxin production in *Pyrenophora teres*, the ascomycete causing the net-spot blotch disease of barley (*Hordeum vulgare* L.)". *Journal of Biological Chemistry*. **266** (20): 13329–13335. PMID 2071605.

## External links

- Pyrenophora teres* (<http://www.indexfungorum.org/Names/NamesRecord.asp?RecordID=255071>) in Index Fungorum

Retrieved from "https://en.wikipedia.org/w/index.php?title=Pyrenophora\_teres&oldid=727542949"

### *Pyrenophora teres*

#### Scientific classification

Kingdom: Fungi

Division: Ascomycota

Class: Dothideomycetes

Order: Pleosporales

Family: Pleosporaceae

Genus: *Pyrenophora*

Species: *P. teres*

#### Binomial name

*Pyrenophora teres*

Drechs. (1923)

Categories: [Pyrenophora](#) | [Parasitic fungi](#) | [Fungi described in 1923](#) | [Fungal plant pathogens and diseases](#) | [Barley diseases](#)

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