

The Rust Fungi

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The rust fungi are a monophyletic group of approximately 7000 species in the basidiomycota and are highly specialized obligate parasites of plants. The life cycle of rusts can be complex. Some rusts have up to five spore stages that alternate between haploid and dikaryotic nuclear conditions and that can occur on two taxonomically unrelated host plants. The rusts have evolved specialized structures that allow them to penetrate and obtain nutrients from living host cells. Biologic forms of a single rust species may differ in ability to attack different genera of host plants. Furthermore, within a single rust species they can be highly variable in ability to attack different genotypes of one host species. At the species level, genes that condition avirulence/virulence in rusts interact in a specific relationship with rust-resistance genes in plants. Many of the most important plant diseases in the world are caused by rust fungi.

Introduction

The rust fungi are obligate parasites of plants from which they obtain nutrients, and on which they reproduce and complete their life cycles. There are an estimated 7000 species of rust fungi that are parasites of plants from ferns to advanced monocots and dicots. Rust fungi cause diseases in economically important plant species such as cereals, legumes, composites and many trees. The rust fungi derive their name from the rust coloured masses of urediniospores that are clonally produced on plant hosts. The rusts are biologically fascinating since their life cycles can vary between two and five distinct spore stages that include haploid, diploid and dikaryotic nuclear conditions. Some rust species require two taxonomically unrelated hosts to complete their life cycle, whereas some species require only one host. Species of rusts have evolved so that they are highly specific to which plant species they can infect, colonize and reproduce on. **See also:** Fungal Pathogens of Plants

Because of their distinct appearance rusts of cereals were long noted in the historical records of antiquity (Arthur, 1929). Aristotle (384–322 bc) writes of rust being produced on grains by warm vapours, and of years with heavy damage to grain crops due to rust. Theophrastus (371–287 bc) also wrote of the effects of rust on cereals. The Roman festival of Robigalia was celebrated on 25 April when the

wheat was filling grain, to placate the rust god Robigo to reduce the damage caused by rust. Rusts were determined to be biological entities only in 1767 when Fontana and also Tozzetti considered rust to be parasitic plants of grain crops. **See also:** Fungi and the History of Mycology

Rust Life Cycles

Most rust fungi have complex life cycles. A common pattern of a rust life cycle, which is also the most complex, involves five distinct spore stages on two unrelated hosts. This life cycle is called macrocyclic for its complete suite of five distinct spores, and heteroecious, in that it requires two hosts for completion of the cycle. Details of these spore stages are shown in **Figure 1**. At the beginning of the growing season germination of teliospores (**Figure 1a**) commences. Teliospores were produced the previous growing season on the host plant and overwintered or oversummered, usually on dead host tissue, in dark brown or black pustules called telia. Teliospores are generally not very mobile, although, with some rust fungi, they can be carried long distances by wind or other agents. The diploid teliospores germinate in place and undergo meiosis to produce four or more haploid basidiospores (**Figure 1b**), which are forcibly ejected into the air. Basidiospores of heteroecious rusts cannot infect the telial host species and must travel to another host where they infect young, vigorous host cells directly through the cell walls. Basidiospores are fragile and cannot tolerate drying, hence they do not travel long distances, and are often released during the night and during seasons when moisture is plentiful. Basidiospores invade host tissues to produce haploid colonies that are called pycnia. The pycnia can be of two or more mating types. Within each pycnium are produced minute, simple pycniospores embedded in insect-attracting nectar on the host's

Advanced article

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Rust Fungi

Jiyuan Zhang



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