POWDERY MILDEW

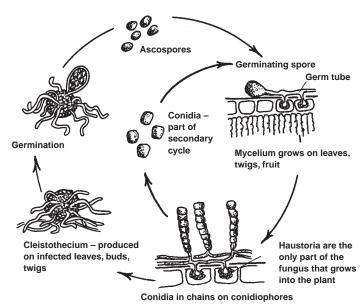
There are hundreds of species of powdery mildew with one or more occurring on almost every known flowering plant. They form a white or light-coloured growth on leaves that resemble a chalky residue. The powdery fungus may cover both the upper and lower surfaces of the leaves. Infections cause distortion, chlorosis, senescence, and browning of the foliage.

Life Cycle

Unlike other fungal diseases, powdery mildew spores don't require free water to germinate. They may even be inhibited by rain or by spraying water on the leaves. High humidity favours spore production, and lower humidity favours spore maturation and release. In a greenhouse situation, frequent fluctuations in humidity as well as warm days and cool nights will favour the fungus. It generally tends to affect lush new plant growth; therefore, it has multiple disease cycles in a growing season as new growth continually appears. Once the infection has started, it continues to spread regardless of weather conditions.

In outdoor settings, various natural parasites (hyperparasites) may help to limit the severity of powdery mildew outbreaks.

Powdery Mildew Life Cycle





Powdery Mildew on Antirrinum



Powdery Mildew on Chrysanthemum



Powdery Mildew on Phlox



Powdery Mildew on Saintpaulia

Principal Hosts

Achillea Malus
Antirrhinum Nandina
Azalea Nicotiana
Begonia Phlox

Calendula Rhododendron

Chrysanthemum Rosa

Clematis Saintpaulia Corylus Scabiosa

Cucurbits Senecio (cineraria)
Cuphea Syringa (lilac)

Dahlia Tagetes
Gerbera Verbena
Hydrangea Viburnum
Kalanchoe Viola
Lathyrus Zinnia

Lobelia

Antirrhinum (Oidium spp.)

A white, powdery coating forms on upper leaf surfaces and on stems. This fungus does not require water to germinate, but rather, favours fluctuations in humidity. Warm days and cool nights are ideal conditions for fungal growth.



Powdery Mildew of Antirrhinum



Powdery Mildew of Antirrhinum

Gerbera (Oidium spp.)

A white, powdery coating forms on upper leaf surfaces and on stems. This fungus favours fluctuations in humidity. Warm days and cool nights are ideal conditions for fungal growth.

Rosa (Spaerotheca pannosa var. rosae)

Initially slightly raised blister-like areas appear on upper surfaces of young leaves, which appear purplish. White growth forms on leaves, stems, flower necks, and flowers, eventually causing them to become twisted and distorted. The under surface of leaves often shows red to purple spotting where the upper surface is affected.



Powdery Mildew on Gerbera Flower



Powdery Mildew on Rosa



Powdery Mildew on Rosa



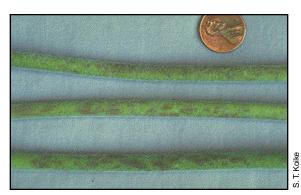
Powdery Mildew on Gerbera



Powdery Mildew on Gerbera



Powdery Mildew on Gerbera Leaves



Powdery Mildew on Gerbera Stems