

Turf Science in action

Under the Scope

Syngenta Turf Science Microscopes give a new insight into turf health and management.

Designed to take 60x magnification images and video on your mobile phone and tablet, it gives the chance to see problems earlier and in greater detail.

An in-depth understanding of the science of turf management will help to make better decisions – not just with turf protection inputs, but every agronomy and ITM practice.

Now greenkeepers and agronomists are encouraged to share their images and experiences, to help everyone to target the right options at the right time.

There is a whole new library of images on GreenCast, and you can follow the latest discussions on Twitter with: **#turfunderthescope**

There are still a few microscopes left, so if you would like one send an email with your details to **golf.syngenta@syngenta.com**



To get the best results with your microscope there is a tutorial on the **GreenCast website**.



Disease in Focus - Anthracnose

In the first of series of focus studies in identifying turf diseases, Syngenta Technical Manager, Marcela Munoz, looks at Anthracnose (*Colletotrichum Cereale*) and risks for the summer.

Foliar Blight - Symptoms

Older leaves becoming infected first. The pathogen progresses up the stem. Individual blades fade from dark green, to light green to yellow. Patches progressively become dark brown in color. Plants are killed in irregularly shaped patches.

Typically occurs at cooler temperatures, of 15°C to 25°C, from late summer through to the autumn and even into winter.

Foliar blight is most prevalent when turf is under stress, with symptoms exacerbated by high temperature, drought, low mowing height, soil compaction or low fertility.

Basal Rot – Symptoms

The base of the plant appears water-soaked, rotting, with blackening of the lower stem in an advanced stage. Orange or yellow speckles or spots of affected turf.



Images: Doc. Ed Nangle and Chicago District Golf Association



1 Use your microscope to look for small black spots, known as acervuli, that can be seen on blades of grass killed by anthracnose.



2 Use your microscope to look for acervuli that can be seen easily seen the crown of the plant.



Visit the **GreenCast website** for more of Marcela's in-depth disease action notes and advice.



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