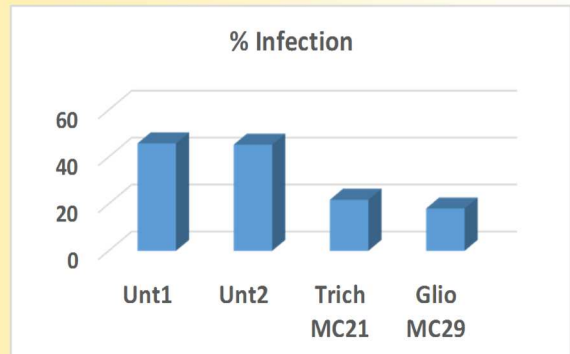


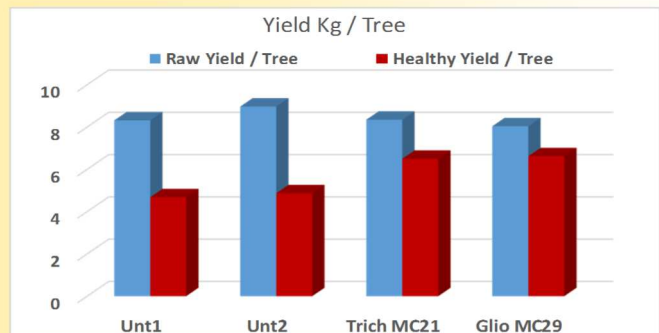
Macanizer®

—a natural enemy of Husk Spot.

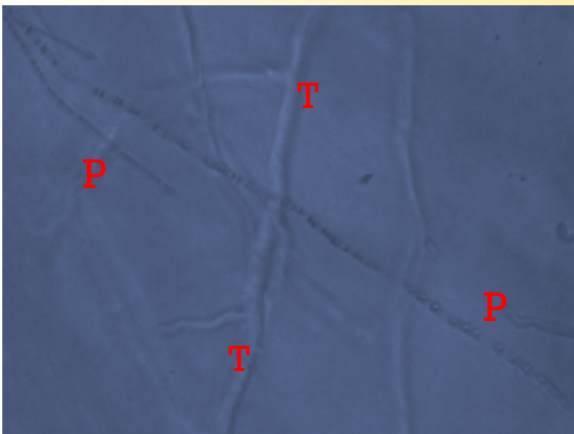
- *Pseudocercospora macadamiae* (husk spot) is a fungus and infects macadamia nuts at any time after flowering and especially at the match-head stage. Lesions slowly develop as the nut matures.
- *Trichoderma* (MC21) and *Gliocladium* (MC29) were originally found in native macadamia foliage and are natural enemies to Husk Spot. They grow into lesions and eradicate *Pseudocercospora*.
- There are many types of *Trichoderma*, that all have different capabilities. Growers need to pick the right one for their crop, soil, climate and target disease. Macanizer® was specifically developed to grow in macadamia foliage and suppress Husk Spot.



Above: Percentage infection by husk spot in 2014/5 trials (LSD0.05=10.72).



Above: Comparison of raw yield and healthy yield in untreated nuts and nuts treated with MC21 and MC29 ($P=0.059$).



Above: *Trichoderma*(MC21) hyphae (T) growing past *Pseudocercospora* hyphae which begin to crumple and decay due to chitinase enzymes excreted by MC21. MC21 and MC29 grow into lesions to eradicate the disease.

Macanizer® beneficial formulation.

Dr Dean Metcalf is a scientist who has studied how to use *Trichoderma* to control many crop diseases since 1992 and has developed a number of successful biological control agents based on solid scientific evaluation.

Macanizer® restores the microbial balance in your crop to inhibit husk spot.

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