

# Arachnopeziza araneosa

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## ITS gene tree

From sequenced specimens, there appear to be 3 or 4 different, *Arachnopeziza araneosa*-like species in New Zealand and Australia.

All specimens are macroscopically and ecologically typical of *A. araneosa*, forming small, translucent, sessile, superficial apothecia held on a dense subiculum. All are on large pieces of rotten wood.

The genetically distinct clades differ morphologically

1. Ascospores about 30-58 x 3.5-4 um, with distinctive, well-defined septa; hairs about 50-100 x 7.5-10 um, [this appears to match the type of *A. araneosa* based on the description in Spooner]
2. Ascospores about 60-90 x 3.5-4.5 um with poorly defined septa; hairs about 100 x 8-10 um, differ from those in clade 1 in being more regular in shape, tapering gradually to the rounded apex and not constricted at the septa [the Australian and NZ specimens are genetically somewhat distinct, morphologically similar, perhaps two geographically distinct subspecies]
3. Ascospores about 50-75 x 3.5-4.5, with well defined septa; hairs short, 35-65 x 4-8.5 um.

These wood-inhabiting taxa form a sister relationship with several putatively host specialised, undescribed species on the dead leaves of species in the monocotyledonous genera *Juncus*, *Dianella*, and *Phormium*.

