A new eriophyoid mite species (Acari: Eriophyoidea) damaging *Eucalyptus* wandoo in Western Australia

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Several species of eriophyoid mites are known to cause damage to economically important eucalypts. These include Rhombacus sp.n. and Acalox ptychocarpi Keifer on spotted gum, Corymbia maculata, a plantation tree in NSW and southem Queensland. Nevertheless, taxonomic information about eriophyoid mites from Australia, especially on native plants, is poor. A new eriophyoid species, Acadicrus sp. n, has recently been discovered on a Eucalyptus sapling in Armadale, WA, probably of E. wandoo, a commercial timber in short supply. This tiny, worm-like mite (about 200 um long), causes severe distortion of new growing tips in saplings which take on a miniature witches' broom-like appearance. At first glance, the symptoms can be mistaken for a plant disease. This is the fourth species in the genus Acadicrus Keifer to be reported. Those previously described are: Acadicrus bifurcatus Keifer, 1965, Acadicrus mergiferus Keifer, 1965 and Acadicrus eucalypti (Gumey, 1924) found respectively on Eucalyptus obliqua, E. viminalis and E. stricta. All species known so far cause distortion of new growth and are possibly host specific. The frontal lobe on the prodorsal shield of Acadicrus forms two elongated processes which distinguishes it from other closely related genera of the tribe Phyllocoptini (Family: Eriophyidae). The genus Acadicrus has only been found in Australia so far. Based on the world-wide distribution of eriophyoid mites, certain genera, such as Acadicrus (4 spp.), Acalox (monotypic) and Rhombacus (7 spp.), which have mostly been described from eucalypts, may have Gondwanan origins. Eriophyoids are highly host specific and further surveys undoubtedly will reveal many unusual genera and species on Australian native plants which have economic significance both here and overseas.