



**First assessment of cryptic species in the gall-inducing scale insect *Apiomorpha calycina* (Coccoomorpha: Eriococcidae).**

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*Apiomorpha calycina* is a member of the most species-rich, gall-inducing scale insect genus. Females induce vase-shaped galls on eucalypts in *Eucalyptus* sections *Bisectae*, *Latoangulatae* and *Dumaria*. The species was first described by Tepper in 1893 from specimens collected on *Eucalyptus dumosa* in South Australia, but its distribution is now known to range from NSW, Victoria and South Australia to Western Australia. Genetic studies of other species of *Apiomorpha* that occur across multiple eucalypt sections and across such a broad geographic distribution have typically found the presence of cryptic species. Here, we use DNA sequencing and morphology to assess whether there are cryptic species also present in *A. calycina*. In particular, we focus on specimens from Western Australia that have atypical gall morphologies.

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