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Article

Redescription of *Oulenzia arboricola* (Oudemans, 1928), type species of *Oulenzia* Radford, 1950 (Acari: Astigmata: Winterschmidtiidae)

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Abstract

A detailed description and illustration of *Oulenzia arboricola* (Oudemans, 1928) are provided based on the type specimen collected on *Hevea* leaves, from Medan, Deli, Sumatra (Indonesia). The definition of the genus *Oulenzia* is clarified and the taxonomic position of species under *Oulenzia* is discussed.

Key words: Taxonomy, Asia, Indonesia, *Hevea*

Introduction

Oudemans (1928) erected the genus *Lenzia* based on a new species, *L. arboricola* Oudemans, 1928, found on leaves of *Hevea* from Medan Deli, Sumatra (Indonesia). Radford (1950) proposed *Oulenzia* to replace *Lenzia* because the name *Lenzia* was pre-occupied. This was followed by Baker & Wharton (1952) and Meyer & Rodrigues (1965).

Hughes (1962) considered *Oulenzia* and *Czenspinskia* to be in the genus *Calvolia*, a genus erected by Oudemans (1911) based on the deutonymphal instar (hypopus) of *Calvolia hagensis* Oudemans, 1911, and also provided a diagnosis for *Calvolia*. OConnor (per. communication 2009) considers *Oulenzia* to be distinct from *Calvolia* and that the latter should be a junior synonym of another genus in a different subfamily because its type species, *Calvolia hagensis* Oudemans, 1911, represents the same species as the type species of an older genus based on the adult form.

The illustration as well as some essential morphological details of *Oulenzia arboricola* (Oudemans, 1928) were not provided in the original (Oudemans 1928) and subsequent related publications (Hughes 1962; Meyer & Rodrigues 1965). The purpose of this redescription is to provide morphological details for *Oulenzia arboricola* as well as a definition for the genus.

Methods

Specimens were examined and measured with an interference-phase contrast microscope (Fan *et al*. 2010). Illustrations were made with a drawing tube attached to a Nikon interference-phase contrast microscope and double checked under a Zeiss interference-phase contrast microscope and were edited with Photoshop CS4 software. All measurements are given in micrometers (μm)

Terminology used for idiosomal chaetotaxy follows Griffiths *et al*. (1990), that for palp and leg chaetotaxy follows Grandjean (1939) and Griffiths (1970).