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## **A turbo-taxonomic study of Thai *Aleiodes* (*Aleiodes*) and *Aleiodes* (*Arcaleiodes*) (Hymenoptera: Braconidae: Rogadinae) based largely on COI barcoded specimens, with rapid descriptions of 179 new species**

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## Abstract

The *Aleiodes* (*Aleiodes*) and *Aleiodes* (*Arcaleiodes*) species of Thailand are revised based on extensive recent collecting as well as existing museum material, and combining evidence from DNA barcoding (5' end of mitochondrial cytochrome oxidase 1) for sequenced material with species known from morphological data alone. The approach taken (here termed 'turbo-taxonomy') has been to rely heavily on colour light microscopy photographic illustration, with brief descriptions contributing principally to characters that are not apparent from the micrographs. All new species are attributed to Quicke & Butcher. Although the very high level of diversity of the Thai fauna means this is necessarily preliminary, in the sense that there are undoubtedly many more species awaiting to be described, it is the first reasonably comprehensive study of a tropical *Aleiodes* fauna. One hundred and seventy six new species of the subgenus *Aleiodes* (viz. *Aleiodes achingae* sp. nov., *Aleiodes aciculodeum* sp. nov., *Aleiodes adorabelleae* sp. nov., *Aleiodes agagg* sp. nov., *Aleiodes alboluteus* sp. nov., *Aleiodes anguaae* sp. nov., *Aleiodes angulodeum* sp. nov., *Aleiodes antescutum* sp. nov., *Aleiodes apiconigrus* sp. nov., *Aleiodes archicolorus* sp. nov., *Aleiodes areelucki* sp. nov., *Aleiodes ascrobi* sp. nov., *Aleiodes asperum* sp. nov., *Aleiodes atuin* sp. nov., *Aleiodes bachmaduplus* sp. nov., *Aleiodes bachmatriplus* sp. nov., *Aleiodes basipunctatus* sp. nov., *Aleiodes basistriatus* sp. nov., *Aleiodes binkyi* sp. nov., *Aleiodes biscutus* sp. nov., *Aleiodes bobwhartoni* sp. nov., *Aleiodes brevemedius* sp. nov., *Aleiodes brunniguttatus* sp. nov., *Aleiodes butcheri* sp. nov., *Aleiodes buzuriduplus* sp. nov., *Aleiodes buzuriquadruplus* sp. nov., *Aleiodes buzuritriplus* sp. nov., *Aleiodes calicis* sp. nov., *Aleiodes calvus* sp. nov., 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An illustrated identification key provided, and some novel and hardly used characters are discussed and illustrated. Morphological and molecular comparison of these species with the better-known Holarctic fauna shows that several previously unrecognised species groups may be distinguished. Based on the Chao 1 diversity estimator, which additionally takes into account the number of specimens represented by precisely one, and the number represented by precisely two individuals, it is estimated that when fully known, the Thai fauna includes at least 438 species of *Aleiodes*.