

# Revision and phylogenetics of the genus *Paraulax* Kieffer (Hymenoptera, Cynipidae) with biological notes and description of a new tribe, a new genus, and five new species

Nieves-Aldrey, José Luis

Liljeblad, Johan

Nieves, María Hernández

Grez, Audrey

Nylander, Johan A.A.

The gall wasp genus *Paraulax* (Hymenoptera, Cynipidae) associated with southern beeches (*Nothofagus* (Nothofagaceae)) from South America is revised. The genus *Paraulax* and its type species, *P. perplexa*, are redescribed and a neotype is designated. Two additional species of *Paraulax* are described as new: *P. queulensis* and *P. ronquisti*. After having been first tentatively placed in the Cynipini and later transferred to the Pediastidini, this genus is here placed in the newly erected tribe Paraulacini, together with the herein described genus *Cecinothofagus* and the three species that are described as new: *C. gallaecoihue*, *C. gallaelenga* and *C. ibarra*. The biology of the members of this new tribe is discussed. Contrary to a prior hypothesis that postulated *Paraulax* (sensu lato) to be true gall-inducers, as most cynipids, evidence here shows that the three species of the new genus *Cecinothofagus* are instead parasitoids or lethal inquiline inhabiting galls induced by species of *Aditrochus* (P