



# Isolation and characterization of polymorphic microsatellite loci for *Pachycrepoideus vindemmiae* (Rondani) (Hymenoptera: Pteromalidae)

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**ABSTRACT.** The parasitoid wasp *Pachycrepoideus vindemmiae* (Rondani) is a common pupal parasitoid of many fly pests that is distributed worldwide. This organism can be used for biological control in orchards or livestock farms. Identifying polymorphic microsatellite loci would be useful for analyzing the population genetic structure of the parasitoid. In the current study, based on a modified biotin-capture method, 10 polymorphic microsatellite loci were isolated and characterized for the insect, 7 of which did not deviate from Hardy-Weinberg equilibrium. The allelic number per locus varied from 3-7 (N = 30). The expected and observed heterozygosities of 10 loci ranged from 0.369-0.775 and from 0.300-0.867, respectively.

**Key words:** Microsatellite markers; *Pachycrepoideus vindemmiae*; Polymorphism