

Characterization of white grubs (Melolonthidae: Coleoptera) at salak pondoh agroecosystem in Mount Merapi based on isozymic banding patterns

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Abstrak

. Wardani S, Sugiyarto. 2009. Characterization of white grubs (Melolonthidae: Coleoptera) at salak pondoh agroecosystem in Mount Merapi based on isozymic banding patterns. Nusantara Bioscience 1: 38-42. The aim of this research is to know the characteristics of white grubs (Melolonthidae: Coleoptera) based on isozyme banding patterns. This research was conducted at Sleman, Yogyakarta, and Magelang-Central Java for the morphological purposes. The sample was taken from 5 places with different height in wich 5 samples were taken from each location. The method used in this research was polyacrylamide gel electrophoresis (PAGE) using the vertical type. The enzyme system used in this research were peroxidase and esterase to detect the isozyme banding patterns. The results showed that there was a variation in isozyme banding patterns of white grubs (Melolonthidae: Coleoptera) at salak pondoh agroecosystem in Mount Merapi's slope (peroxidase in station II and IV while esterase in station III and V). It's mean that genetic variation on white grubs population at salak pondoh agroecosystem in Mount Merapi's slope was found. The environmental condition also contributed to the influence of the appear of isozyme banding pattern's variation because each location had a different condition.