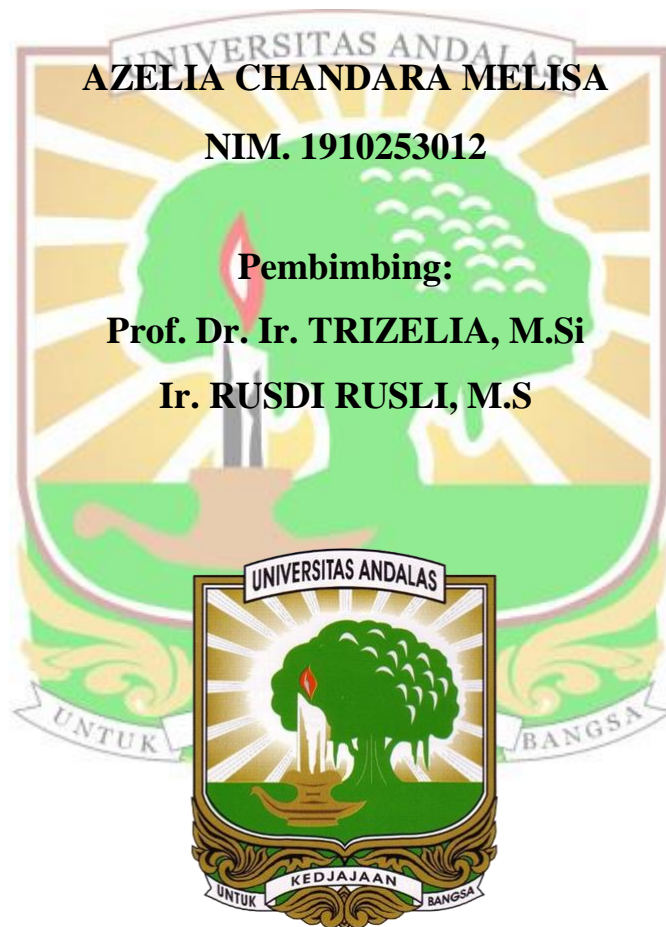


**EFEKTIVITAS KONSORSIUM *Beauveria bassiana* Bals. DAN
Metarhizium anisopliae TERHADAP *Crocidolomia pavonana*
Fabricius (Lepidoptera : Crambidae)**

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ABSTRAK

Crocidolomia pavonana merupakan salah satu hama utama pada tanaman kubis-kubisan yang dapat menimbulkan kerugian secara ekonomis. Salah satu pengendalian *C. pavonana* yaitu menggunakan cendawan entomopatogen. Penelitian ini bertujuan untuk mengetahui efektivitas dari cendawan *B. bassiana*, *M. anisopliae*, dan konsorsium *B. bassiana* dan *M. anisopliae* terhadap *C. pavonana*. Penelitian dilakukan di Laboratorium Bioekologi Serangga dan Laboratorium Pengendalian Hayati Departemen Proteksi Tanaman, Fakultas Pertanian, Universitas Andalas, Padang. Penelitian ini menggunakan metode eksperimen dengan Rancangan Acak Lengkap (RAL) terdiri dari 6 perlakuan dan 5 ulangan. Perlakuan tersebut adalah cendawan *B. bassiana*, *M. anisopliae*, *B. bassiana* + *M. anisopliae* (1:1), *B. bassiana* + *M. anisopliae* (3:1), *B. bassiana* + *M. anisopliae* (1:3), dan Kontrol. Parameter yang diamati yaitu mortalitas larva, waktu kematian (LT_{50}), persentase pupa terbentuk, persentase imago terbentuk, masa pra-oviposisi; oviposisi; dan pasca-oviposisi, jumlah telur yang diletakkan dan persentase telur menetas. Data dianalisis dengan sidik ragam dan uji lanjut LSD pada taraf 5%. Hasil penelitian menunjukkan perlakuan dengan cendawan entomopatogen *B. bassiana*, *M. anisopliae*, serta konsorsium *B. bassiana* dan *M. anisopliae* efektif menyebabkan mortalitas larva dengan masing-masing persentase 88% dan 100%, namun perlakuan dengan konsorsium dapat mempercepat waktu kematian (nilai LT_{50}) larva uji dibandingkan dengan perlakuan isolat tunggal. Aplikasi cendawan entomopatogen juga berpengaruh terhadap pembentukan pupa dan imago.

Kata Kunci: *Beauveria bassiana*, *Crocidolomia pavonana*, Konsorsium, *Metarhizium anisopliae*.

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ABSTRACT

Crocidolomia pavonana is one of the major pests that attack cabbage crops and causing significant economic damage. One of the control *C.pavonana* is the entomopatogenic fungi. This study aims to determine the effectiveness of the fungus *B. bassiana*, *M. anisopliae*, and the consortium *B. bassiana* and *M. anisopliae* to *C. pavonana*. The research was conducted at the Insect Bioecology and Biological control Laboratory of the Departemen Plan Protection , Faculty of Agriculture, Andalas University, Padang. This research employed an experimental method using a Completely Random Design (CRD) consisting of 6 treatments and 5 applications. The treatments were as follows *B. bassiana*, *M. anisopliae*, *B.bassiana* + *M. anisopliae* (1:1), *B.bassiana* + *M. anisopliae* (3:1), *B.bassiana* + *M. anisopliae* (1:3,), and control. The observed parameters were larva mortality, LT₅₀ percentage of pupae forms, percentage of adult formed, pre-ovipositin, oviposition, and post-oviposition, the number of eggs laid and percentage of eggs hatched. Data were analysed using analysis of variance and further LSD test at a significance level of 5%. The result showed that the treatment entomopathogenic fungi *B. bassiana*, *M. anisopliae*, and Consortium with *B. bassiana* and *M. anisopliae* effectively causing mortality with each percentage 88% and 100%, but the treatment with consortium can speed up the Lethal time of the larvae compared to the single isolate treatment. Application of entomopatogenic fungi also effects the formation of pupae and imago.

Keywords: *Beauveria bassiana*, Consortium, *Crocidolomia pavonana*, *Metarhizium anisopliae*.