

**ẢNH HƯỞNG CỦA THỨC ĂN THAY THẾ ĐẾN MỘT SỐ ĐẶC ĐIỂM SINH HỌC  
CỦA BỌ CÁNH CỨNG HẠI DỪA *Brontispa longissima* Gestro  
(COLEOPTERA: CHRYSOMELIDAE)**

Effects of Alternative Food on Biological Characteristics of the Coconut Hispine  
Beetle *Brontispa longissima* Gestro (Coleoptera: Chrysomelidae)

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**Abstract**

Effective parasitoid production or mass rearing is one of the key components in practicing biological control with parasitoids. Selection of host species for rearing parasitoids is a major approach to improve the production efficiency and reduce the production cost. This study aims to find alternative foods for rearing the coconut hispine beetle *Brontispa longissima* Gestro to reduce parasitoid rearing cost. The coconut hispine beetle could be completed its life cycle with providing tested alternative foods. The survival percentage of all developmental stages of the beetle when reared with *Paspalum atratum* and *Cyperus difformis* was high (66.7 – 67.1%). Life cycle of the beetle reared with *P. atratum* and *C. difformis* (32.3 – 33.1 days) was shorter than that with coconut (36.3 days). This study indicated that *P. atratum* and *C. difformis* could be like alternative foods to rear the coconut hispine beetle for parasitoid mass rearing.

**Keywords:** Alternative food, biological control, *Brontispa longissima*, parasitoid.