KEMENTERIAN PERUSAHAAN PERLADANGAN DAN KOMODITI

MPOB

27th MPOB TOT 2021

TRANSFER OF TECHNOLOGY

SEMINAR & EXHIBITION



MANAGEMENT OF PEST AND DISEASES

Sustainable, cost effective and eco-friendly approaches in managing pest and diseases of oil palm

Research Focus Area : Yield Performance
Program : Integrated Pest and Disease Management

DESCRIPTION

Pest and diseases poses a serious threat in oil palm and causes more than RM1.5 billion economic losses per year. Yield Performance Programme aims to strengthen the research and development of Integrated Pest and Diseases management via implementation of green approaches which include biological and physical methods that have been put forward for more sustainable, cost effective and eco-friendly solution.

MPOB TT NO. 188
PCR technique for the detection of *Ganoderma*

HIGHLIGHTS

A diagnostic kit for detection of *Ganoderma* in oil palm root, stem and soil . The kit was developed through PCR Technology based on molecular DNA.

FEATURED ADVANTAGES:

1. Validated and verified by United Plantation Berhad
2. Endorsed by *Department of Agriculture* (DOA)
3. Simple, rapid and specific detection of pathogenic *Ganoderma* in oil palm
4. Provide curative treatment to eradicate infected palms before being source of *Ganoderma* outbreak
5. Cost effectiveness with estimated benefit of cost ratio (B:C) of approximately 1.21



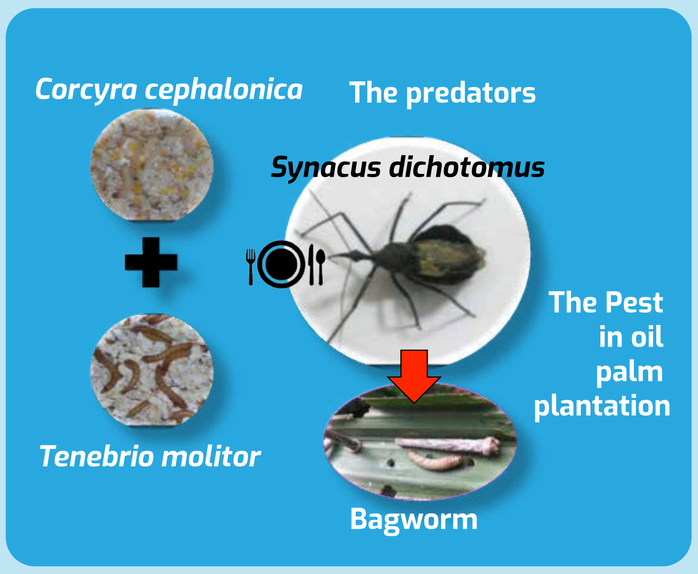
MPOB TT No. 486
Mixed prey as food source for mass rearing of the bagworm predator, *Sycanus dichotomus*

HIGHLIGHTS

A mixed prey consisting of *Corcyra cephalonica* and *Tenebrio molitor* to support the growth and enhance the predatory performance of *Synacus dichotomus.*

FEATURED ADVANTAGES:

1. Reduce dependency on chemical pesticide
2. Promote eco-friendly pest management
3. Natural pest control in oil palm plantation
4. Cost effectiveness of RM0.15 to produce one adult *Synacus dichotomus*



MPOB TT No. 652
Pycnoporus sanguineus as biodegrader of oil palm trunk and root mass for *Ganoderma* control

HIGHLIGHTS

A solid-state cultivation (SSC) formulation using *Pycnoporus sanguineus as* wood degrader through an action of antagonistic white-rot hymenomycetes against *Ganoderma boninense.*

FEATURED ADVANTAGES:

1. Eco-friendly for sustainable management to eradicate *Ganoderma* inoculum and control other major pests
2. Utilisation of oil palm biomass to reduce waste
3. Nutrients to the soil
4. Cost effectiveness with estimated benefit of cost ratio (B:C) of approximately 1.27



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Sawit ANUGERAH TUHAN