

2026 ACA Annual Cashew Conference & Expo



SUSTAINABLE CASHEW SUPPLY THROUGH POLICY, INVESTMENT AND PARTNERSHIP



Ghana

La Palm Royal Beach Hotel, Accra

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Management of cashew pests and diseases (current trends)

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Eco-friendly Innovations

- Adoption of **biopesticides**:
 - *Beauveria* spp., *Metarhizium* spp., *Lecanicillium* spp. for insect pests.
 - *Trichoderma* spp. for anthracnose and soilborne pathogens.
- Development of **microbial and bio-stimulant formulations** to improve plant health and tolerance.
- Expansion of **conservation biocontrol** - encouraging the establishment of beneficial insects (weaver ants, bees, ladybird beetles, parasitoids).

Entomopathogen Research at CRIG (1)

- Entomopathogens – fungi that can infect and kill/parasitize insect pests.
- Isolation of entomopathogenic fungi (EPF) from cashew insect pests.
 - *Beauveria bassiana*
 - *Aspergillus tamaraii*
 - *Aspergillus bombycis*
- Effect of environmental factors (temperature & humidity) on growth of EPF.
- Survival of EPF under different storage conditions.



Entomopathogen Research at CRIG(2)

- Bioassay – coreid bugs (*Pseudotheraptus*, *Anoplocnemis*), mosquito bug (*Helopeltis*) & others.
- Mass production of EPF using rice media.
- Field trials.
 - EPF effective against cashew insect pests (coreid bugs, mosquito bug & others) in the field.



Isolation of beneficial fungi from cashew soils for disease control

- Isolation of beneficial fungi from cashew soils.
 - *Trichoderma* spp.
 - Mycorrhiza
- Dual culture assay of soilborne pathogens (*Fusarium* spp.).
- Amend cashew soils with beneficial microbes/functional biochar – *for disease control, tolerance & growth stimulation.*



Eco-friendly Innovations - The Way Forward!

- Identify and screen botanicals/extracts against cashew pests and pathogens.
- Isolate more beneficial fungi from cashew ecosystem – through surveillance.
- Identify and screen more EPF against cashew pests.
- Mass production of EPF and beneficials using other substrates.
- Carry out more field trials for validation.
- Collaborate with industry/funders to develop EPF and other beneficials into products for commercial application.
- Encourage the use of beneficial insects and microbes for pest and disease control.
- **Sustainable cashew production**

A close-up photograph of a green cashew leaf with prominent veins. A small, light-colored insect is visible on the lower part of the leaf. The text 'Thank you' is overlaid in a large, bold, black font.

Thank you