



# **Efficacy of Biological & Eco-Friendly CPAs (BIO) 2016 Report**

**Coordinator: Hannah Burrack, NCSU, USA**

**Presenter: Anne Jack, UK, USA**

**Berlin, 10 October 2016**

- ❖ **To test eco-friendly CPAs, alternatives to traditional CPAs**
  - **Biological products**
  - **Less harsh CPAs**
- ❖ **Products not yet tested**
  - **In a particular location**
  - **Against a particular pest / disease**
- ❖ **Collaborative study – global**
  - **Products appropriate for location**



# Suggestions for products to be tested

to be finalized by coordinator

## ❖ Sucker control products

- Oils, acids

## ❖ Disease / pest control products for:

- Insects (bacterial, fungal, viral, pheromones, traps, oils, predators)
- Fungal diseases (bacterial, oils, Trichoderma)
- Nematodes (fungal, bacterial, Jatropha, brassica seed)



# Suggestions for protocols

to be finalized by coordinator

- ❖ **Number of entries flexible – choose product for location**
- ❖ **Checks**
  - **Untreated**
  - **Best local CPA / program**
- ❖ **Minimum of 16 plots to ensure sufficient df – reps variable but minimum 4**
  - **4 treatments; 2 entries + 2 checks**
    - 4 reps, 16 plots (total 15 df, error 9 df)
  - **3 treatments; 1 entry + 2 checks**
    - 6 reps, 18 plots (total 17 df, error 10 df)
- ❖ **Seedbed as well as field protocols**



# Participants

- ❖ **France – ARVLAIS (Kadi Kane)**
- ❖ **USA – Virginia Tech (Chuck Johnson)**
- ❖ **Zimbabwe – TRB (Susan Dimbi)**
- ❖ **Malawi – ARET (Chrissie Mainjeni)**
- ❖ **China – CNTC Yunnan (Limeng Zhang)**
  - CNTC (Fenglong Wang)**
  - CNTC (Rui Wang)**



- ❖ **Protocols & datasheets to be finalized, sent to participants**
  - **Northern hemisphere: December 2016**
  - **Southern hemisphere: May 2017**
- ❖ **Participants to source own products**



# Group meeting – Berlin 2016

- ❖ **Meeting Sunday 9 October**
  - **15 attendees**
  - **7 volunteers to run trials**



# THANK YOU