

## Workshop 8

## General abstract:

## Nematode-fungal interactions and complex diseases

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The objectives of this workshop are to review and anticipate future impact of nematode interaction with fungal and bacteria pathogens on root and crop health. The workshop will look at problems on a wide array of food crops affecting food security on a worldwide basis. The presentations will summarize: where we are, where we have problems, and where research is required in the future.

The presentations - listed in the order of the authors of this abstract - will cover:

- 1) Nematode-disease complexes: a neglected factor in improving crop health
- 2) *Verticillium* / *Pratylenchus* interaction for potato - both do the damage, but only one gets the credit
- 3) Cereal root rot - nematode interrelationships: vision for the future?
- 4) Nematode-fungal root-rot complexity on banana: a perennial problem of unknown importance?
- 5) Metagenomics: the future to disentangle complex diseases?
- 6) Present and future management systems for complexity management

Following the presentations ample time will be available for audience-speaker discussions on

- 1) the impact of complex diseases on root and plant health
- 2) new approaches for research in the soil and rhizosphere and
- 3) development of integrated management approaches.

We anticipate rigorous discussion on future nematological research on this important crop health problem.

**Keywords:** Root and soil health - Complex diseases - Integrated management - Metagenomics - Fungal and bacterial pathogens.

## Agenda:

- **Nematode-disease complexes: a neglected factor in improving crop health.**  
Richard Sikora, Ann MacGuidwin, Driekie Fourie, Danny Coyne, Holger Heuer, Matthias Gaberthüel
- ***Verticillium* / *Pratylenchus* for potato: both do the damage, but only one gets the credit.**  
Ann MacGuidwin
- **Cereal root rot - nematode interrelationships: vision for the future?**  
Driekie Fourie, Amer Dababat
- **Nematode-fungal root-rot complexity on banana: a perennial problem of unknown importance?**  
Danny Coyne
- **Metagenomics: the future to disentangle complex diseases?**  
Holger Heuer
- **Present and future management systems for complexity management.**  
Matthias Gaberthueel

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