

Pesticide free farming

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How do my research contribute to this theme?

- Genetic improved plants, resilient towards diseases
- Plant and microbiome research to study plant resilience based on these co-relations
- Soil management to reduce the need for using pesticides
- Tolerant and resistance crop varieties
- Grow crop cultivar mixes
- Future goal is pesticide free farming, IPM will stay for years

Discussion of pesticide free farming:

Low impact pesticides to be used

The Danish IPM is use as little pesticide as possible, still a way to go to follow the low impact strategy

Mapping of weeds distribution to do precision pesticide spraying

What can substitute use of pesticides – cover crops can suppress weeds

Collaboration within the department?

Develop a research strategy for optimizing weed control and reduced N leaching by means of crop rotations, inter cropping and cover crops

Collaboration with KU and GEUS on fate of pesticides

What are the real problem for us in AGRO when we discuss pesticide free farming – can some be obtained from wild plant varieties. How to stimulate agricultural crops to compete better against weeds.

Possible collaboration partners national and international?

Fate of pesticides GEUS

Wageningen

INRA

How can the area contribute to our teaching, including attracting more students and contributing high school activities?

Marketing our education as an environmental education

Establish a research platform to promote sustainable agriculture cropping system and a demo farm at the university where all scientific fields can be introduced and pilot research can be carried out by students.

How to make our bachelor education more visible and appealing

How does the area contribute to regenerative agriculture?

Challenge will be like in conservation agriculture

Nitrogen fertilizer could be green produced and not just organic N fertilizer

Funding possibilities?

Lot of calls on pesticide and IPM in the EU system

Danish public funding is limited

Novo Nordisk Fonden