

Diversifying the cropping system using subsidiary crops – how do we maximize benefits and minimize tradeoffs?

Subsidiary crops are grown primarily for their ecological services rather than producing marketable crop yield. The interest in subsidiary crops in the form of various living mulches and cover crops has grown substantially in the last years but many of the proposed benefits and risks of subsidiary crops remain poorly documented. It is also unclear how subsidiary crops can be incorporated into cropping systems in a way that maximizes multifunctional benefits while minimizing tradeoffs.

The aim of this symposium is to more closely identify these knowledge gaps. An international guest speaker will showcase a potential approach for developing subsidiary crop use with a cropping system perspective.

Date and time: Tuesday March 3, 9.30-16.00. (Coffee from 9.00)

Place: Terra Nova, Agricum, Slottsvägen 2, SLU Alnarp

Cost: Free of charge and open for anyone to attend. Lunch and coffee included.

Registration: Via the link below, no later than February 24:

www.slu.se/registrationsubsidiarycrops

9.00 Coffee

9.30 Welcome

9.40 Effects of subsidiary crops in oilseed rape on weed and pest control, nitrogen delivery and crop yield. **Muriel Valantin-Morison, INRA, AgroParisTech.**

Short break

How are the components of the cropping system affected by subsidiary crops? How can each be optimized individually?:

10.40 Soil macro- and mesofauna. **Maria Viketoft, SLU Ecology**

11.00 Soil microorganisms. **Hanna Friberg, SLU Forest Mycology and Plant Pathology**

11.20 Nutrient management. **Helena Aronsson, SLU Soil and Environment**

11.40 Soil organic carbon. **Thomas Prade, SLU Biosystems and Technology**

12.00 Lunch

13.30 Weeds. **Alexander Menegat, SLU Crop Production Ecology**

13.50 Insects. **Mattias Larsson, SLU Plant Protection Biology**

14.10 Pathogens. **A-C Wallenhammar, The Rural Economy and Agricultural Societies**

14.30 Fika

Flash presentations:

15.00 Half the surface tilled. **Elsa Lagerquist, SLU Crop Production Ecology**

15.05 Flowering undersown legumes. **Ola Lundin, SLU Ecology**

15.10 Subsidiary crops: practical considerations. **Marcus Willert, The Rural Economy and Agricultural Societies**

Concluding remarks followed by discussion

15.15 Subsidiary crops in multifunctional cropping systems. **Georg Carlsson, SLU Biosystems and Technology**

16.00 End of day

This symposium is sponsored by Platform Plant Protection at SLU. SLU Platform Plant Protection is there to promote and stimulate collaboration between staff at SLU's different campuses, faculties and departments, and to strengthen SLU's profile in plant protection towards the outside world.