

Biological Soil Mapping of Pathogens – A New Tool in Precision Agriculture

Frontiers in Biological Sciences Seminar Series

Presented by...

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Abstract

Soil-borne pathogens incite large yield losses. Most of these pathogens produce different types of resting spores that can survive in soils for 10-20 years. In the interdisciplinary BioSoM (Biological Soil Mapping) program, the goal is to develop a new service for the agricultural sector (i.e., farmers, advisers, authorities, researchers) to quantify levels of infestation of pathogens in the field and to give advice concerning crop rotation and management. Swedish University of Agriculture Sciences is responsible for the scientific work and the development of the service in collaboration with selected stakeholders.

Dr. Jonsson's main research focus is on measurement of soil and product quality. This includes

- Detection and quantification of leaf and soil-borne pathogens on cereals, legumes, and crucifer crops using molecular methods (BioSoM)
- Automatic detection of insects in field and storage and rapid methods for measurement of Cd in soil and grain
- Effects on quality of feed and animal of Mo/Cu and N/S on acryl amide formation.

More info?

Date: Friday, July
25, 2014

Location: EMSL
Auditorium

Time: 10:00 a.m.