

Atelier 6/Workshop 6

➤ Echantillonnage/Sampling

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Sampling methods for assessing pests and diseases in the crop (optimising monitoring schemes)

Objectives

Integrated production depends on information on disease incidence and pest density of sufficient accuracy as a prerequisite for sound management decisions. Data on spatial distribution of pests and diseases and their temporal fluctuations allow growers to target control measures more specifically and give hints on the pathways of spread and dissemination. Specific monitoring procedures are particularly needed for diseases that are spread by aerial vectors or invasive pests.

According to these different needs the workshop will include the following activities divided into three major topics:

1. Sampling problems and solutions
 - Sampling methodology and sampling schemes
 - Monitoring techniques and procedures
2. Spatial distribution and temporal fluctuation of pest density and disease incidence
 - Methods to identify spatial patterns of diseases and pests
 - Optimization of sampling strategies (Sequential sampling, binomial sampling etc.)
3. Identification and characterization of pests and diseases
 - Characterization and differentiation of pathogen strains and pest populations
 - Estimation of infection pressure
 - Methods to estimate degrees of parasitism