Sveriges lantbruksuniversitet
Swedish University of Agricultural Sciences

SLUkurs

Syllabus

POS0004 Visualization of Physiological Events - using microscopy, 3.0 credits

Syllabus approved

2002-08-07

Subjects

Biology

Education cycle

Third cycle

Grading scale

Pass / Failed
The requirements for attaining different grades are described in the course assessment criteria which are contained in a supplement to the course syllabus. Current information on assessment criteria shall be made available at the start of the course.

Language

English

Prior knowledge

Registered as PhD-student

Objective, including learning outcomes

During the course PhD sudents learn to understand the possibilities of using different microscopy methods in biological research, what kind of questions could

be answered with help of microscopy, what limitations microscopy methods have, and to estimate the time and costs demanded when using microscopy. Note that the course does not aim to perfect practical skills in all techniques but rather to give an overview of the microscopy methods.

Content

The course will contain basic theory lectures in light microscopy, scanning electron microscopy (SEM), transmission electronmicroscopy (TEM) and confocal laser scanning microscopy (CLSM). Specialized lectures will give examples of using microscopy in research applications (such as structural studies, immunolocalization, in situ hybridization). Laboratory demonstrations and hands-on practicals will help to understand the practical questions and importance of the correct sample preparation.

Requirements for examination

Will be notified during course

Additional information

Responsible department

Faculty of Landscape Architecture, Horticulture and Crop Production Science