



Wageningen, The Netherlands

The Wageningen Light Microscopy Centre and the MicroSpectroscopy Research Facility will organize a three-day course on Microscopy and Spectroscopy in Food and Plant Sciences. In this course you will learn the theory behind different state-of-the-art microscopy techniques and get hands-on experience in the form of group assignments under the guidance of experts in the field.

**Tuesday 7 May, [Forum building \(nr. 102\)](#), PC room 0707**

09:00 Intro and lecture "microscope construction" (Janson)  
09:45 break  
10:00 lecture "creating contrast" (Janson)  
10:45 break  
11:00 Start computer practical "digital image analysis" (Bader/deRuijter/Borst)  
12:00 lunch  
13:30 lecture "Fluorescent probes" (Borst)  
14:15 break  
14:30 Continuation computer practical "digital image analysis" (Bader/deRuijter/Borst)  
18:00 Dinner

**Wednesday 8 May, [Forum building \(nr. 102\)](#), PC room 0707**

09:00 lecture "fluorescence microscopy and optical sectioning" (Janson)  
10:00 break  
10:15 lecture "Förster resonance energy transfer" (Borst)  
10:45 break  
11:00 lecture "Single Molecule Techniques" (Hohlbein)  
12:00 lunch  
13:30 Practical 1,2,3 and 4 (depending on group assignment)  
15:30 Change practical: Practical 1,2,3 and 4 (depending on group assignment)  
17:30 End of day 2

**Thursday 9 May, [Radix building \(nr. 107\)](#), room PC0089**

09:00 lecture "FRET imaging applications" (Borst)  
09:45 break  
10:00 Practical 1,2,3 and 4 (depending on group assignment)  
12:00 lunch  
13:00 Practical 1,2,3 and 4 (depending on group assignment)  
15:00 Data analysis  
17:30 Evaluation and drinks

Practical 1: Microscope construction  
Practical 2: Confocal (3D) imaging  
Practical 3: FRET-FLIM  
Practical 4: Super-resolution imaging