

A vertical strip on the left side of the page contains three microscopic images of plant tissues. The top image shows a cluster of cells with prominent blue nuclei. The middle image shows a network of green, fibrous structures. The bottom image shows a cross-section of plant cells with distinct cell walls and internal structures.

Soft Microscopy Center

– meeting for microscopy network the 21st of November 2019

Location: RISE Agrifood and Bioscience, Frans Perssons väg 6, Göteborg, Sweden

Light microscopy, sample preparation and TEM highlights

PROGRAM

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| 09.00 – 09.30 | Registration and coffee |
| 09.30 – 09.40 | Welcome to the microscopy network meeting
– Niklas Lorén, Torben Nilsson Pingel, Eva Olsson, Mats Stading, RISE & Chalmers |
| 09.40– 10.40 | Light microscopy
– Light microscopy theory and sample preparation, Annika Altskär, RISE
– Light microscopy in relation to CLSM and food science applications, Camilla Öhgren, RISE |
| 10.45 – 11.05 | – Light-based techniques at Chalmers Materials Analysis Laboratory (CMAL)
Katarina Logg, Chalmers |
| 11.10 – 12.10 | Transmission electron microscopy
– New TEM at Chalmers and remote demonstration, Eva Olsson, Torben Nilsson Pingel, Chalmers |
| 12.10 – 13.10 | Lunch |
| 13.10 – 13.50 | Fluorescence imaging of polysaccharides in plant materials
– Prof. Paul Knox, Center for plant science, Univ. Leeds, UK. |
| 13.55 – 15.35 | Lab session

Light microscopy calibration to get good image quality
– Annika Altskär, RISE

Virtual reality of 3D structures
– Magnus Röding, RISE

Demonstration of different light microscopy imaging modes and stainings
– Camilla Öhgren, RISE

Sample preparation techniques for light microscopy
– Annika Krona, RISE |
| 15.35 – 15.50 | Coffee and cake |
| 15.50 – 16.20 | Workshop discussion |
| 16.20 – 16.30 | Concluding remarks |
| 16.30 | End of meeting |