Workshop

Title: Hyperspectral darkfield imaging

Date, duration: On demand, 2 days

Location: Adolphe Merkle Institute, Chemin des Verdiers 4, 1700 Fribourg

Lecturer(s): Dr. Dimitri Vanhecke (AMI)

Number of participants: 1 – 2 students

Target audience: Master and PhD students of the University of Bern. Lecture Series on Advanced Microscopy plus exam (KSL 9256)

Registration: Send request to dimitri.vanhecke@unifr.ch

KSL: 470971

Reward: 1.0 ECTS

Costs: 250 CHF per student
- PhD students enrolled in the Graduate School for Cellular and Biomedical Sciences (GCB) can apply for refund at the PhD program Cutting Edge Microscopy (limited until 31st December 2022)
- Amount accounts for students of the University of Bern. Other participants, please request quote.

Learning goals: Acquiring analytical scattering information through dark field microscopy

Description: Dark-field structured illumination technology in place of the standard condenser provides an oblique angle illumination, which enhances signal-to-noise of nanoscale samples. The optical observation of a wide range of nanoscale materials, especially metallic nanoparticles, is possible in solution, in cells or tissue and materials based matrices. Non-fluorescent cells and pathogens can be observed easily without the need for phase contrast or differential interference contrast.

Course structure: Theory: First half day, practical course the next 1.5 day

Assessment: To be determined