

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 - 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

