

Confocal laser scanning microscopy user meeting and workshop on our new microscope Stellaris

December 4 at 10.00 in Realfagsbygget room D4-132

A new CLSM Leica Stellaris <https://www.leica-microsystems.com/products/confocal-microscopes/p/stellaris/> was recently installed at Center of Advanced Microscopy (CAM), NV-faculty, Department of Physics.

We invite you all to join a workshop to learn about the possibilities and improved techniques of the new CLSM, including Fluorescence lifetime imaging FLIM and FLIM-FRET, improved resolution (deconvolution methods) and more!

A Leica Stellaris expert - Heike Glauner - will deliver a digital presentation and two of the product specialists (Simen Owe and Duarte Mateus) from Leica will be present to answer questions. CAM-users will present their work on the different microscopes using different techniques. Afterwards, there will be hands-on sessions on the Stellaris, so please bring your own samples for testing!

Program:

10.00	Welcome	Presented by:
10.05	Stellaris at NTNU – What is New?	Heike Glauner, Leica
11.00	Microscopes at CAM, overview and further plans	Astrid Bjørkøy, IFY
11.15	Microscopy toolbox of FPB Group: Techniques and applications at CAM	Michaela Ticha, IBI
11.30	The impact of cell shape on cellular microviscosity dynamics in response to abiotic stress-induced-cell wall integrity impairment	Dhika Amandal, IBI
11.45	From FLIM to Phasor FLIM of amyloid deposits.	Mikael Lindgren, IFY
12.00	Lunch	
12.45	SHG imaging of poled domains in optical waveguides	Enrico Melani, IES
13.00	Imaging lipid droplets in Rainbow trout intestinal cells (RTgutGC)	Paola Galluzzi Polesi, IBI
13.15	Imaging sensory receptor cells in Octopus Suckercups	Malien Laurien, IBI
13.30	Machine Learning for Automatic Image Segmentation	Ida Storm/Hannah Davis, IFY
13.45	Summary. Closure	
14.00	Demonstration of Stellaris – user samples and hands-on	