



# Cross Institutional Bioimaging PhD Course 2018



KØBENHAVNS  
UNIVERSITET



Danmarks  
Tekniske  
Universitet



The Cross Institutional Bioimaging Ph.D. course will be given by a series of lecturers who are experts within each their field of bioimaging. The course will take place at different institutions in order to expose the students to different research groups, researchers and experimental research facilities. The course will thus give the students a unique opportunity of orienting themselves within an active and diverse field of interdisciplinary science within bioimaging.

The course is relevant for PhD students within medicine, physics, chemistry, biochemistry, molecular biology, nano-bioscience, pharmaceutical sciences, agricultural science or biology. The emphasis of the course is a tour of all bioimaging techniques available in Denmark and will cover subjects like live cell imaging, spinning disk microscopy, electron microscopy, photoactivated localization microscopy, single particle techniques, structured illumination, stimulated emission depletion microscopy, imaging of neurons and cell migration.

Date	Title	Responsible Lecturer	Where
January 30	Fluorescence Microscopy, two photon and Image Analysis	Jonathan Brewer & Eva Arnsfang Christensen	SDU
February 6	Confocal Microscopy	Clara Prats	KU
February 13	Non-invasive imaging modalities (PET-SPECT-CT-R)	Henrik H. El Ali	KU
February 20	Image Analysis	Jon Sparring, Sune Darkner	KU
February 27	Single particle & Fluorescent Proteins	Victoria Birkedal, Lene Nejsum and Morten Schallburg Nielsen	AU
March 6	Super-resolution, STED, ICS and Raman	Eva Arnsfang Christensen, Jonathan Brewer & Martin Hedegaard	SDU
March 13	Image analysis	Rasmus Reinhold Paulsen, Anders Nymark Christensen, Anders Bjorholm Dahl	DTU
March 20	Electron microscopy	Klaus Qvortrup	KU
April 3	Preparation for the exam		Home
April 10	Evaluation and Student Talks	Eva Arnsfang Christensen & Jonathan Brewer; Clara Prats	KU/ SDU

Registration is open by email to [vita@bmb.sdu.dk](mailto:vita@bmb.sdu.dk). The course corresponds to 9 ECTS points.