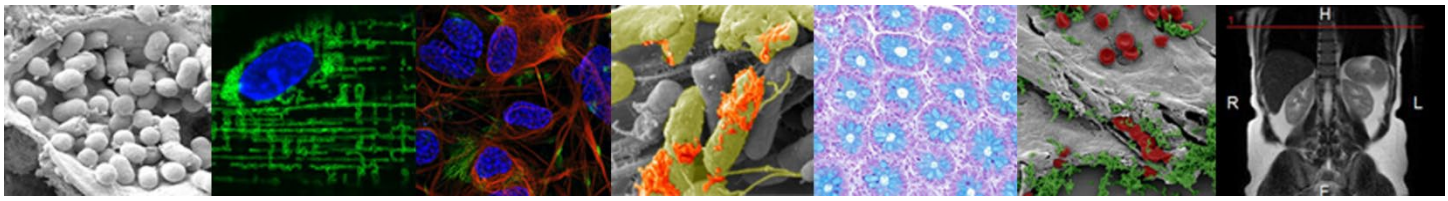

Cross Institutional Bioimaging PhD Course 2024

SDU

KØBENHAVNS UNIVERSITET

AARHUS UNIVERSITY

Danmarks Tekniske Universitet

DTU

DANISH BIOIMAGING NETWORK

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 Danish research 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, confocal microscopy, electron microscopy, super-resolution microscopy, single particle techniques, stimulated emission depletion microscopy, imaging of neurons, cell migration and image analysis. The course corresponds to 10 ECTS points.

Date	Time (aprx. *)	Title	Location
Monday Sep. 2	9:30-17:30	Fluorescence and two photon microscopy	SDU
Monday Sep. 9	9:30-17:30	Confocal microscopy	KU
Monday Sep. 16	9:30-17:30	Image analysis, general introduction	SDU
Monday Sep. 23	9:30-17:30	Live imaging in yeast, plants and mammalian cells	KU
Tuesday Sep. 24	9:30-17:30	Image analysis, introduction to Python	KU
Tuesday Oct. 8	9:30-17:30	Single particle & Fluorescent Proteins	AU
Monday Oct. 21	9:30-17:30	Image analysis, pixel and object classification	DTU
Monday Oct. 28	9:30-17:30	Super-resolution, STED, SMLM, Minflux, (ICS) and Raman	SDU
Monday Nov. 4	9:00-17:00	Electron microscopy	KU
Monday Nov. 11	9:30-17:30	Break	
Monday Nov. 18	9:30-17:30	Evaluation and student talks	KU/SDU

*** Tentative schedule. See schedules for the individual modules on ItsLearning.**

General course information: www.dambic.dk **Registration by email to**: mfe@bmb.sdu.dk