

MBI course, Imaging module

Spring 2007

Teachers:

Imaging module is given by the Molecular Imaging Unit (MIU)

Anne Vaahtokari (AV), MIU

All teaching takes place in Biomedicum

Lecture (a 45 min)

Ville Rantanen (VR), MIU

Lectures and Summary are in seminar room 8-9, P-floor

Practical work

Mikko Liljeström (ML), MIU

Henna Syrjäkari (HS), MCBP

Date/Time	Monday, 16.4	Wednesday, 18.4	Friday, 20.4	Monday, 23.4	Wednesday, 25.4
9.00-10.00	Basics of light microscopy (AV)	Confocal microscopy/Live-cell imaging (ML)	High-content microscopy and scientific criteria for image processing (AV)	Confocal microscopy/Live-cell imaging/HCS	Image analysis
10-10.30	Fluorescence microscopy (AV)	Wide-field microscopy and image acquisition	Wide-field microscopy and image acquisition	Confocal microscopy/Live-cell imaging/HCS	Image analysis
10.30-11.00	Fluorescence microscopy	Wide-field microscopy and image acquisition	Wide-field microscopy and image acquisition	Confocal microscopy/Live-cell imaging/HCS	Image analysis
11.00-11.30	Digital image acquisition, processing and analysis in microscopy (VR)	Wide-field microscopy and image acquisition	Wide-field microscopy and image acquisition	Confocal microscopy/Live-cell imaging/HCS	Summary of work
11.30-12.00	Digital image acquisition, processing and analysis in microscopy (VR)	Wide-field microscopy and image acquisition	Wide-field microscopy and image acquisition	Confocal microscopy/Live-cell imaging/HCS	Summary of work

Wide-field microscopy and image acquisition sessions

Group (each 2 students)	Wednesday, 18.4 10.00-11.00	Wednesday, 18.4 11.00-12.00	Friday, 20.4 10.00-11.00	Friday, 20.4 11.00-12.00
I	1	2	3	4
II	2	3	4	1
III	3	4	1	2
IV	4	1	2	3

Confocal microscopy/Live-cell imaging/HCS sessions

Group (each 2 or 3 students)	Monday, 23.4 9.0-10.00	Monday, 23.4 10.00-11.00	Monday, 23.4 11.00-12.00
V	5	6	7
VI	6	7	5
VII	7	5	6

Image analysis sessions

Group (each 2 students)	Wednesday, 25.4 9.00-9.30	Wednesday, 25.4 9.30-10.00	Wednesday, 25.4 10.00-10.30	Wednesday, 25.4 10.30-11.00
I	8	9	10	11
II	9	10	11	8
III	10	11	8	9
IV	11	8	9	10