The Live Cell Imaging Facility Microscopy course 27 Jan- 14 Feb 2025 In Blue: Lectures and demos that are publicly broadcasted, no registration needed (use Zoom link on the LCI website) When Who What Before the course Preparation of own sample and presentation, survey, collecting information, etc Mon 27/01 **Module 1: Student Imaging Challenge Presentations** 09:00-09:20 09:20-10:35 Student Imaging Challenge Presentations, Group 1 11:00-12:15 Student Imaging Challenge Presentations, Group 2 13:15-14:30 Student Imaging Challenge Presentations, Group 3 15:00-16:15 Student Imaging Challenge Presentations, Group 4 16:15-16:40 Group discussion: Student Imaging Challenge 16:40-17:10 Portfolio assignment 17:10-17:15 Questions Module 2: Working with light and fluorophores Tues 28/01 09:00-09:10 Feedback, questions, ILOs and portfolio 09:10-09:15 Sylvie Le Guyader Lecture: Key concepts of light microscopy 1 09:15-09:45 Sylvie Le Guyader Lecture: Nature of light 09:45-10:15 Sylvie Le Guyader Lecture: Basic optics for light microscopy 10:25-10:40 Sylvie Le Guyader Lecture: Image formation 10:40-10:55 Sylvie Le Guyader Lecture: Key concepts of light microscopy 2 10:55-11:25 Group quizzes: Basic optics and Image formation 11:25-11:50 Sylvie Le Guyader Lecture: Fluorescence and fluorophores 11:50-12:00 Workshop: Assessment of imaging efficiency and bleedthrough 13:00-15:00 Sylvie Le Guyader Workshop: Assessment of imaging efficiency and bleedthrough 15:15-15:45 Sylvie Le Guyader Workshop: Assessment of imaging efficiency and bleedthrough peer review 15:45-17:10 Group quizzes 17:10-17:15 Questions Wed 29/01 Module 3: Anatomy of a microscope Week 09:00-09:10 Feedback, questions, ILOs and portfolio 09:10-10:10 Lecture: Anatomy of a microscope: architecture, transmitted light versus fluorescence Sylvie Le Guyader 10.10-10.20 Onizzes 10.30-11.10 Lecture: Anatomy of a microscope: wide field and single point confocals Sylvie Le Guyader 11:10-11:30 Quizzes Lecture: Anatomy of a microscope: multipoint confocals and light sheet systems 11:30-12:00 Sylvie Le Guyader 13:00-13:40 Quizzes and group discussion 13:40-14:40 Sylvie Le Guyader Workshop: Anatomy of a microscope: video and survey demo 14:55-17:10 Sylvie Le Guyader Workshop: Anatomy of a microscope 17:10-17:15 Questions Thurs 30/01 Module 4: Working with objectives 09:00-09:10 Feedback, questions, ILOs and portfolio 09:10-10:10 Sylvie Le Guyader Lecture: Objectives 10:20-11:25 Group discussion: Objectives 11:25-11:45 Sylvie Le Guyader Lecture: Point Spread Function and resolution 11:45-12:00 Quiz: Objectives, PSF and resolution 13:00-13:25 Sylvie Le Guyader Lecture: Refraction index mismatch and optical aberrations 13:25-14:40 Workshop: Objectives and Refraction Index mismatch Jianjiang Hu Lecture: Efficient strategies to find the area of interest: large FOV, tiling and autofocus 14:55-15:30 Sylvie Le Guyader 15:30-16:00 Group discussion: Focus strategy Group discussion and quiz: PSF, resolution and scientific question 16:00-16:45 16:45-17:10 Week 1 quizzes 17:10-17:15 Questions Fri 31/01 Assignments, Student Imaging Challenge Workshop Mon 03/02 Assignments, Student Imaging Challenge Workshop Tues 04/02 Module 5: Sample preparation 09:00-09:20 Feedback, questions, ILOs and portfolio 09:20-09:30 Discussion: Acquiring images with all your microscope objectives 09:30-09:45 Discussion about the video Preparing and imaging live samples 09:45-10:15 Sylvie Le Guyader Teacher Imaging Challenge: What did I see in your samples this week? 10:25-11:40 Gabriela Imreh Lecture: Sample preparation tips 11:40-12:00 Group discussion: How can you improve your sample preparation? 13:00-14:30 Gabriela Imreh Lecture: Immunostaining troubleshooting 14:30-15:15 David Unnersjö-Jess Lecture: Clearing and expansion microscopy 15:30-16:30 Sylvie Le Guyader Workshop: The art of bleaching the sample

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	16:30-16:45		Group discussion: The perfect sample
	16:45-17:10		Group quizzes
	17:10-17:15		Questions
	Wed 05/02		Module 6: The digital image
	09:00-09:10	Subside La Consadar	Feedback, questions, ILOs and portfolio
	09:10-10:00	Sylvie Le Guyader	Lecture: Bridging concepts: optical and digital resolutions, contrast and sampling rate
	10:10-11:10 11:10-12:00	Sylvie Le Guyader	Lecture: Bridging concepts: optical and digital resolutions, contrast and sampling rate Quiz and group discussion: Actual and ideal pixel size in your images
	13:00-13:15	Sylvie Le Guyader	Lecture: Sensors
2	13:00-13:13	Sylvie Le Guyader	Lecture: Signal, background and noise
Week 2	14:00-14:30	Sylvic Le duyadei	Workshop: Speed versus noise
>	14:30-15:00		Group discussion: Measure the SNR and SNB ratios in your images
	15:15-16:30	Sylvie Le Guyader	Group discussion: Improve the SNR and SNB on your system and in your images
	16:30-16:55	Gabriela Imreh	Workshop: Widefield vs single-point confocal
	16:55-17:10		Group discussion: Widefield vs single-point confocal
	17:10-17:15		Questions
	Thurs 06/02		Module 7: Capturing light
	09:00-09:10		Feedback, questions, ILOs and portfolio
	09:10-10:00	Sylvie Le Guyader	Lecture: Saturation, under exposure, bit depth, dynamic range and image display
	10:10-11:00	Sylvie Le Guyader	Lecture: Saturation, under exposure, bit depth, dynamic range and image display
	11:10-12:00		Group discussion: Saturation, bit depth and display for your images
	13:00-13:20	Gabriela Imreh	Lecture: Imaging multiple colours at once
	13:20-13:35		Group discussion: Imaging multiple colours at once
	13:35-14:00		Quizzes
	14:00-14:45	Oliver Garner/Marie Andersson	Workshop: Camera
	14:45-15:00	Sylvie Le Guyader	Lecture: Reverse-thinking your experiment
	15:15-16:00	Sylvie Le Guyader	Lecture: Workflow to set parameters on detector- and camera-based systems
	16:00-16:45		Group discussion: How do you set the parameters on your microscope?
	16:45-17:10		Week 2 quizzes
	17:10-17:15		Questions
<u> </u>	Fri 07/02 Mon 10/02		Assignments, Student Imaging Challenge Workshop Assignments, Student Imaging Challenge Workshop
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	Tues 11/02		Module 8: Off the beaten track
	Tues 11/02 09:00-09:20		Module 8: Off the beaten track Feedback, questions, ILOs and portfolio
	Tues 11/02 09:00-09:20 09:20-10:00	Andrii Rogov	Module 8: Off the beaten track Feedback, questions, ILOs and portfolio Teacher Imaging Challenge: What did I see in your samples this week?
	Tues 11/02 09:00-09:20	Andrii Rogov Hans Blom	Module 8: Off the beaten track Feedback, questions, ILOs and portfolio Teacher Imaging Challenge: What did I see in your samples this week? Lecture: Artificial Intelligence in light microscopy
	Tues 11/02 09:00-09:20 09:20-10:00 10:00-10:30	· ·	Module 8: Off the beaten track Feedback, questions, ILOs and portfolio Teacher Imaging Challenge: What did I see in your samples this week?
	Tues 11/02 09:00-09:20 09:20-10:00 10:00-10:30 10:40-11:40	Hans Blom	Module 8: Off the beaten track Feedback, questions, ILOs and portfolio Teacher Imaging Challenge: What did I see in your samples this week? Lecture: Artificial Intelligence in light microscopy Lecture: Introduction to super resolution microscopy
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Week 3	Tues 11/02 09:00-09:20 09:20-10:00 10:00-10:30 10:40-11:40 11:40-12:00 13:00-13:15 13:15-14:00 14:00-15:00 15:15-15:35 15:35-15:45 15:45-16:30 16:30-17:10 17:10-17:15 Wed 12/02 09:10-09:50 10:00-12:00 13:00-14:00 14:00-15:00 15:15-16:15 16:15-16:20 Thurs 13/02 09:00-09:10 09:10-10:10 10:20-12:20 13:20-15:20 15:35-16:00 Evening Fri 14/02	Hans Blom Erik Wernersson Erik Wernersson Sylvie Le Guyader Jeremy Adler Petr Walczysko Sylvie Le Guyader Douglas Cromey Gisele Miranda G. Miranda/AIDA DataHub/NBIS G. Miranda/AIDA DataHub/NBIS	Module 8: Off the beaten track Feedback, questions, ILOs and portfolio Teacher Imaging Challenge: What did I see in your samples this week? Lecture: Artificial Intelligence in light microscopy Lecture: Introduction to super resolution microscopy Quizzes Lecture: Introduction to 2D and 3D deconvolution Workshop: Test 2D and 3D deconvolution Quizzes Lecture: Introduction to Fourier space and Fourier transforms Group discussion: Fourier transform your images Lecture: Colocalization TBD Questions Module 9: Publishing images Group discussion: Microscope company role play Workshop: How to easily make figures for publication with OMERO.figure Lecture: Publishing images Group discussion: Write your Material and Methods and scientific question metrics Lecture: Ethics in imaging Questions Module 10: Image analysis and Course conclusions Feedback, questions, ILOs and portfolio Lecture: Introduction to Bioimage analysis Workshop: Image analysis Workshop: Image analysis Course conclusions: Reminder of the key concepts of light microscopy Alumni pub