The	The Live Cell Imaging Facility Microscopy course 27 Jan- 14 Feb 2025				
Sch	edule subject to last	minute changes. Always check the l	atest update on this page.		
In B	lue: Lectures and de	mos 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		Introduction		
	09:20-10:35		Student Imaging Challenge Presentations		
	11:00-12:15		Student Imaging Challenge Presentations		
	13:15-14:30		Student Imaging Challenge Presentations		
	15:00-16:15		Student Imaging Challenge Presentations		
	16:15-16:40		Group discussion: Student Imaging Challenge		
	16:40-16:45		Questions		
	Tues 28/01		Module 2: Working with light and fluorophores		
	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: Imaging efficiency and bleedthrough		
	13:00-15:00	Sylvie Le Guyader	Workshop: Imaging efficiency and bleedthrough		
	15:15-17:10	Sylvie Le Guyader	Workshop: Imaging efficiency and bleedthrough peer review and guizzes		
	17:10-17:15	, ,	Questions		
	Wed 29/01		Module 3: Anatomy of a microscope		
4	09:00-09:10		Feedback, guestions, ILOs and portfolio		
Vee	09:10-10:10	Sylvie Le Guyader	Lecture: Anatomy of a microscope: architecture, transmitted light versus fluorescence		
>	10:10-10:20	, ,	Quizzes		
	10:30-11:10	Svlvie Le Guvader	Lecture: Anatomy of a microscope: wide field and single point confocals		
	11:10-11:30	,,,	Quizzes		
	11:30-12:00	Sylvie Le Guyader	Lecture: Anatomy of a microscope: multipoint confocals and light sheet systems		
	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	Jianjiang Hu	Workshop: Objectives and Refraction Index mismatch		
	14:55-15:30	Sylvie Le Guyader	Lecture: Efficient strategies to find the area of interest: large FOV, tiling and autofocus		
	15:30-16:00		Group discussion: Focus strategy		
	16:00-16:45		Group discussion and quiz: PSF, resolution and scientific question		
	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	Sylvie Le Guyader	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?		
	13:00-14:10	Gabriela Imreh	Lecture: Immunostaining troubleshooting		
	14:10-14:30		Group discussion: How can you improve your sample preparation?		
	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		
	16:30-16:45		Group discussion: The perfect sample		

1	16:45-17:10		Group quizzes
	17:10-17:15		Questions
	Wed 05/02		Module 6: The digital image
	09:00-09:10		Feedback, questions, ILOs and portfolio
	09:10-10:00	Sylvie Le Guyader	Lecture: Bridging concepts: optical and digital resolutions, contrast and sampling
	10:10-11:00	Sylvie Le Guyader	Lecture: Bridging concepts: optical and digital resolutions, contrast and sampling
	11:00-12:00		Quiz and group discussion: Theoretical and actual pixel size in your images
2	13:00-13:15	Sylvie Le Guyader	Lecture: Sensors
ě	13:00-14:00	Sylvie Le Guyader	Lecture: Signal, background and noise
3	14:00-14:30		Workshop: Speed versus noise
	14:30-15:00		Group discussion: Measure the SNR and SBR in your images
	15:15-16:30		Group discussion: How could you improve the SNR and SBR 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
ſ	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	Marie Andersson	Workshop: Camera
	14:45-15:00		Group discussion: 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
ŀ	17:10-17:15		Questions
-	Fri 07/02		Assignments, student Imaging Challenge Workshop
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ľ	Tuoc 11/02		Madula 9: Off the heaten track
ľ	Tues 11/02		Module 8: Off the beaten track
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