The	The Live Cell Imaging Facility Microscopy course 27 Jan- 14 Feb 2025								
Schedule subject to last minute changes. Always check the latest update on this page.									
In B	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 informati								
	Mon 27/01		Module 1: Student imaging challenges						
	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						
	16:15-16:35		Group discussion: New ideas						
	16:35-17:00		Group discussion: Which metrics does your scientific question require?						
	17:00-17:10		Questions						
	Tues 28/01		Module 2: Working with light and fluorophores						
	09:00-09:10		Feedback, questions, Learning Objectives and portfolios						
	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						
	10:45-11:00	Sylvie Le Guyader	Lecture: Image formation						
	11:00-11:15	Sylvie Le Guyader	Lecture: Key concepts of light microscopy 2						
	11:15-11:25		Group quiz: 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 quizzes						
	17:10-17:15		Questions						
1 1	Wed 29/01		Module 3: Anatomy of a microscope						
Week 1	09:00-09:10		Feedback, questions, Learning Objectives and portfolios						
^	09:10-10:10	Sylvie Le Guyader	Lecture: Anatomy of a microscope: architecture, transmitted light versus fluorescence						
	10:10-10:20		Group quizzes						
	10:30-11:10	Sylvie Le Guyader	Lecture: Anatomy of a microscope: wide field and single-point confocals						
	11:10-11:30	Codois La Couradan	Group quizzes						
	11:30-12:00 13:00-13:40	Sylvie Le Guyader	Lecture: Anatomy of a microscope: multipoint confocals and light sheet systems						
	13:40-14:40	Sulvia La Cuyadar	Quizzes and group discussion						
	14:55-17:10	Sylvie Le Guyader Sylvie Le Guyader	Workshop: Anatomy of your microscope: video and survey demo Workshop: Anatomy of your microscope						
	17:10-17:15	Sylvie Le Guyadei	Questions						
	Thurs 30/01		Module 4: Working with objectives						
	09:00-09:10		Feedback, questions, Learning Objectives and portfolios						
	09:10-10:10	Sylvie Le Guyader	Lecture: Objectives						
	10:20-10:40	Sylvie Le Guyader	Lecture: Point Spread Function and resolution						
	10:40-11:00	Sylvic Le Guyadei	Quiz: Objectives, PSF and resolution						
	11:00-12:00		Group discussion: The optical resolution of the objectives on YOUR microscope						
	13:00-13:25	Sylvie Le Guyader	Lecture: Refraction index mismatch and optical aberrations						
1	13:25-14:25	Jianjiang Hu	Workshop: Objectives and Refraction Index mismatch						
	14:25-15:00	yg	Group quizzes						
	15:15-15:50	Sylvie Le Guyader	Lecture: Efficient strategies to find the area of interest: large FOV, tiling and autofocus						
1	15:50-16:20	,	Group discussion: Focus strategy						
	16:20-16:50		Group quizzes						
	16:50-17:00		Questions						
1	Fri 31/01		Assignments, Student Imaging Challenge Workshop						
	Mon 03/02		Assignments, Student Imaging Challenge Workshop						
1	Tues 04/02		Module 5: Sample preparation						
1	09:00-09:20		Feedback, questions, Learning Objectives and portfolios						
[09:20-09:40		Group discussion: Preparing and imaging live samples						
	09:40-10:05	Sylvie Le Guyader	Teacher Imaging Challenge: What did I see in your samples this week?						
1	10:15-11:30	Gabriela Imreh	Lecture: Sample preparation tips						
1	11:30-12:00		Group discussion: How can you improve your sample preparation?						
1	13:00-14:10	Gabriela Imreh	Lecture: Immunostaining troubleshooting						
1	14:10-14:40		Group discussion: How can you improve your immunostaining?						

14:40-15:25 David Unnersjö-Jess Lecture: Clearing and expansion microscopy 15:40-16:40 16:40-17:10 Tri-10-17:15 Wed 05/02 O9:00-09:10 O9:10-10:00 Sylvie Le Guyader Lecture: Bridging concepts: optical and digital resolutions, contrast and sar Group discussion: Destroy of Lecture: Bridging concepts: optical and digital resolutions, contrast and sar Group discussion: Does the pixel size in your images fulfill the Nyquist saml Group discussion: Does the pixel size in your images fulfill the Nyquist saml Group discussion: Does the pixel size in your images fulfill the Nyquist saml Group discussion: Does the pixel size in your images fulfill the Nyquist saml Group discussion: How could you improve the SRR in your images? Group discussion: How could you improve the SRR in your images? Group discussion: How could you improve the SRR in your images? Group discussion: How could you improve the SRR in your images? Group discussion: How could you improve the SRR in your images? Group discussion: How could you improve the SRR in your images? Group discussion: How could you improve the SRR in your images? Group discussion: How could you improve the SRR in your images? Group discussion: How could you improve the SRR in your images? Group discussion: How could you improve the SRR in your images? Group discussion: How could you improve the SRR in your images? Group discussion: How could you improve the SRR in your images? Group discussion: How could you improve the SRR in your images? Group discussion: How could you improve the SRR in your images? Group discussion: How could you improve the SRR in your images? Group discussion: How does your system image display Lecture: Saturation, under exposure, bit depth and image display Group discussion and quizzes: What do you need to segment in your image (Freedback, Questions) and putting colours? Workshop: Camera Lecture: Imaging multiple colours? How does your system image multiple colours? Group discussion: How does your system image multiple colours? Assignmen			
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09:20-10:00Teacher Imaging Challenge: What did I see in your samples this week?10:00-10:30Andrii RogovLecture: Artificial Intelligence in light microscopy10:40-11:40Hans BlomLecture: Introduction to super resolution microscopy			
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11:40-12:00 Quizzes			
13.00 13.15			
13:00-13:15 Erik Wernersson Lecture: Introduction to 2D and 3D deconvolution 13:15-14:00 Erik Wernersson Workshop: Test 2D deconvolution			
13:13-14:00 ETIK WETHERSSON WORKSHOP. Test 2D deconvolution 14:00-15:00 Quizzes			
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15:15-15:35 Sylvie Le Guyader Lecture: Introduction to Fourier space and Fourier transforms 15:35-15:45 Group discussion: Ai and super resolution in your project			
15:45-16:30 Fabrice Cordelières Lecture: Colocalization			
16:30-17:10 Quizzes			
Triangle			
9:10-09:50 Group discussion: Microscope company role play			
10:00-12:00 Petr Walczysko Workshop: How to easily make figures for publication with OMERO.figure			
13:00-14:00 Sylvie Le Guyader Lecture: Publishing images			
14:00-15:00 Group discussion: Write your Material and Methods			
15:15-15:35 Douglas Cromey Lecture: Ethics in imaging			
15:35-16:15 Douglas Cromey Workshop: Ethics in imaging			
16:15-16:20 Questions			
Thurs 13/02 Module 10: Image analysis and Course conclusions			
09:00-09:10 Feedback, questions, Learning Objectives and portfolios			
09:10-10:10 Agustin Corbat Lecture: Introduction to Bioimage analysis			
10:20-12:20 Agustin Corbat Workshop: Image analysis			
13:20-15:20 Agustin Corbat Workshop: Image analysis			
15:35-16:00 Sylvie Le Guyader Course conclusions: Reminder of the key concepts of light microscopy	Course conclusions: Reminder of the key concepts of light microscopy		
Evening Alumni pub			
Fri 14/02 Portfolio consolidation and final submission			