	ninute changes. Always check th	
		ed, 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 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
Wed 29/01		Module 3: Anatomy of a microscope
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		Group quizzes
11:30-12:00	Sylvie Le Guyader	Lecture: Anatomy of a microscope: multipoint confocals and light sheet systems
13:00-13:40	0, 10 00,000	Quizzes and group discussion
13:40-14:40	Sylvie Le Guyader	Workshop: Anatomy of your microscope: video and survey demo
14:55-17:10	Sylvie Le Guyader	Workshop: Anatomy of your microscope
17:10-17:15		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	Synte Le Guydder	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
13:25-14:25	Jianjiang Hu	Workshop: Objectives and Refraction Index mismatch
13:25-14:25 14:25-15:00	Jialijialig ⊓u	Group quizzes
	Sulvia La Crucadar	
15:15-15:50 15:50 16:20	Sylvie Le Guyader	Lecture: Efficient strategies to find the area of interest: large FOV, tiling and autofocus
15:50-16:20		Group discussion: Focus strategy
16:20-16:50		Group quizzes
16:50-17:00		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, 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?
10:15-11:30	Gabriela Imreh	Lecture: Sample preparation tips
11:30-12:00		Group discussion: How can you improve your sample preparation?
13:00-14:10	Gabriela Imreh	Lecture: Immunostaining troubleshooting
	Gabriela Imreh	Group discussion: How can you improve your sample preparation? Lecture: Immunostaining troubleshooting Group discussion: How can you improve your immunostaining?

11	14:40-15:25	David Unnersjö-Jess	Lecture: Clearing and expansion microscopy
	15:40-16:40	Sylvie Le Guyader	Workshop: The art of bleaching the sample
	16:40-17:10		Group discussion and quizzes: The perfect sample for light microscopy
	17:10-17:15		Questions
	Wed 05/02		Module 6: The digital image
	09:00-09:10		Feedback, questions, Learning Objectives and portfolios
	09:10-10:00	Sylvie Le Guyader	Lecture: Bridging concepts: optical and digital resolutions, contrast and sampling
	10:10-10:50	Sylvie Le Guyader	Lecture: Bridging concepts: optical and digital resolutions, contrast and sampling
	10:50-11:50		Group discussion: Does the pixel size in your images fulfil the Nyquist sampling theorem?
N.	11:50-12:00		Group quiz
Week 2	13:00-13:20	Sylvie Le Guyader	Lecture: Sensors
\$	13:20-14:10	Sylvie Le Guyader	Lecture: Signal, background and noise
	14:10-14:40		Workshop: Speed versus noise
	14:40-15:10		Group discussion: How could you improve the SNR in your images?
	15:25-16:40		Group discussion: How could you improve the SBR in your images?
	16:40-17:10		Group quizzes
	17:10-17:15		Questions
	Thurs 06/02		Module 7: Capturing light
	09:00-09:10	Culuis La Cuusdan	Feedback, questions, Learning Objectives and portfolios
	09:10-10:00	Sylvie Le Guyader	Lecture: Saturation, under exposure, bit depth and image display
	10:10-11:00 11:00-12:00	Sylvie Le Guyader	Lecture: Saturation, under exposure, bit depth and image display
	13:00-13:30	Gabriela Imreh	Group discussion and quizzes: What do you need to segment in your images? Lecture: Imaging multiple colours at once
	13:30-14:00		Group discussion: How does your system image multiple colours?
	14:00-14:45	Marie Andersson	Workshop: Camera
	15:00-15:45	Sylvie Le Guyader	Lecture: Typical workflow to set imaging parameters
	15:45-16:15	-,,	Group discussion: How do you set the parameters on your microscope?
	16:15-17:10		Group quizzes
	17:10-17:15		Questions
	Fri 07/02		Assignments, Student Imaging Challenge Workshop
	Mon 10/02		Assignments, Student Imaging Challenge Workshop
	Tues 11/02		Module 8: Off the beaten track
	09:00-09:20		Feedback, questions, Learning Objectives and portfolios
	09:20-10:00		Teacher Imaging Challenge: What did I see in your samples this week?
	09:20-10:00 10:00-10:30	Andrii Rogov	Lecture: Artificial Intelligence in light microscopy
	09:20-10:00 10:00-10:30 10:40-11:40	Andrii Rogov Hans Blom	Lecture: Artificial Intelligence in light microscopy Lecture: Introduction to super resolution microscopy
	09:20-10:00 10:00-10:30 10:40-11:40 11:40-12:00	Hans Blom	Lecture: Artificial Intelligence in light microscopy Lecture: Introduction to super resolution microscopy Quizzes
	09:20-10:00 10:00-10:30 10:40-11:40 11:40-12:00 13:00-13:15	Hans Blom Erik Wernersson	Lecture: Artificial Intelligence in light microscopy Lecture: Introduction to super resolution microscopy Quizzes Lecture: Introduction to 2D and 3D deconvolution
	09:20-10:00 10:00-10:30 10:40-11:40 11:40-12:00 13:00-13:15 13:15-14:00	Hans Blom	Lecture: Artificial Intelligence in light microscopy Lecture: Introduction to super resolution microscopy Quizzes Lecture: Introduction to 2D and 3D deconvolution Workshop: Test 2D deconvolution
	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	Hans Blom Erik Wernersson Erik Wernersson	Lecture: Artificial Intelligence in light microscopy Lecture: Introduction to super resolution microscopy Quizzes Lecture: Introduction to 2D and 3D deconvolution Workshop: Test 2D deconvolution Quizzes
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	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	Hans Blom Erik Wernersson Erik Wernersson	Lecture: Artificial Intelligence in light microscopy Lecture: Introduction to super resolution microscopy Quizzes Lecture: Introduction to 2D and 3D deconvolution Workshop: Test 2D deconvolution Quizzes
	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	Hans Blom Erik Wernersson Erik Wernersson Sylvie Le Guyader	Lecture: Artificial Intelligence in light microscopy Lecture: Introduction to super resolution microscopy Quizzes Lecture: Introduction to 2D and 3D deconvolution Workshop: Test 2D deconvolution Quizzes Lecture: Introduction to Fourier space and Fourier transforms Group discussion: Ai and super resolution in your project
3	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	Hans Blom Erik Wernersson Erik Wernersson Sylvie Le Guyader	Lecture: Artificial Intelligence in light microscopy Lecture: Introduction to super resolution microscopy Quizzes Lecture: Introduction to 2D and 3D deconvolution Workshop: Test 2D deconvolution Quizzes Lecture: Introduction to Fourier space and Fourier transforms Group discussion: Ai and super resolution in your project Lecture: Colocalization
eek 3	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	Hans Blom Erik Wernersson Erik Wernersson Sylvie Le Guyader	Lecture: Artificial Intelligence in light microscopy Lecture: Introduction to super resolution microscopy Quizzes Lecture: Introduction to 2D and 3D deconvolution Workshop: Test 2D deconvolution Quizzes Lecture: Introduction to Fourier space and Fourier transforms Group discussion: Ai and super resolution in your project Lecture: Colocalization Quizzes
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