

Schedule of 8th NorMIC Workshop (IBV, NorMIC Platform, UiO)

Seminar Room 3627

Lab Room 2117/3604/Radium

2nd Monday	3rd May Tuesday Day1	4th May Wednesday Day2	5th May Thursday Day3	6th May Friday Day4
PreparationDay				
8:30-9:00	Intro_Oddmund	Lecture: "Superresolution" I Rainer (Zoom)	Luca Clario (spinning disk) (zoom)	Lecture: "Superresolution" II Rainer (Zoom)
9:00-9:30	Lecture: Labeling/Dyes/Fluorescence (Kay)			
9:30-10:00		Break (Coffee break, travel to site)	Break (Coffee break, travel to site)	Break (Coffee break, travel to site)
10:00-10:30	Lecture: Imaging Modalities diffraction, resolution, and localization (Felix)	Lecture: Microscope Building Element, Objectives, Detectors (Felix)	Lecture: TIRF, SMLM, STORM and DNA-PAINT (Merete)	High Content Screening (Stig)
10:30-11:00				
11:00-11:30 11:30-12:00	Matthew Hartley (Zoom) Image Data Format, MetaData, IDR. Shareable Storage	Lecture: Imaging Artifacts and aberration (PC) Imaging modes & contrast techniques	Lecture: EM/CLEM/EM Principle, Application, Sample Preparation (Ingrid)	Lecture: Deep Tissue Imaging/ Index matching/Tiss Clearing (PC)
12:00-12:30	Vendor Talk (Nikon) Abberior STED (Jan Vavra)	Vendor Talk (Zeiss) Airyscan (Eric Muren)	Vendor Talk (Leica) Stellaris 5 (Simen Gylderud Owe, Thommie Karlsson)	Vendor Talk (Olympus) (Zoom) instantSIM SORA (Steven Coleman) Visitech
12:00-13:30 lunch	lunch	lunch (Sponsored by Holger Hartmann)	lunch (Sponsored by Zeiss)	lunch (Sponsored by Ortomedics AS)
13:30-14:00	Talk: Detectors: camera introduction (Sebastian, Hamamatsu)	13:30 to 14:00 Tissue Imaging (Zebra fish, Cod, Salmon): (Julien Resseguier.)	whole afternoon: Groups rotate amongst different microscope stations a. LSM 880, (Confirmed) (Zeiss) b. Leica Stellaris 5 (Confirmed) (Vendor) c. STORM and STED (confirmed) (Nikon) Radium (transportation will be provided) d. Olympus SoRa Spinning Disk (Confirmed) (Olympus)	Talk/Lab : ImageJ Intro (Rafael) (Zoom) (13:30 to 14:30)
14:00-14:30		14:00 to 14:30 Intro to Chip Based TIRF (Øystein Ivar Helle, ChipNanoImaging)		Work on Data with groups (1 hour)
14:00-14:30	Parallel Lab 1 Camera Performance Check (Sebastian)	whole afternoon: Groups rotate amongst different microscope stations		Student Presentation in Group 15min Each
14:30-15:00	Parallel Lab 2 3D Printed Spinning Disk (Felix)	a. LSM 880 (Confirmed) (Zeiss)		
15:00-15:30	Parallel Lab 3 a Diffraction Lab	b. Leica Stellaris 5 (Confirmed) (Vendor)		ReCap of the Whole course (Felix) Rest of Teaching Staff (Evaluation and Closing)

	(PC)	c.STORM and STED(confirmed)(Nikon) Radium(transportation will be provided)	e.Chip based TIRF (ChipNanoImaging AS) (confirmed)	Remarks)
15:30-16:00	Parallel Lab 3 b Koehler Illumination and Microscope (Edna)	d.Olympus SoRa Spinning Disk(Confirmed)(Olympus) e. Chip based TIRF (ChipNanoImaging AS) (confirmed) f. SPIM(Snouty)(Radium)(Optional)(Kay Schink)		
16:00-16:30	(Essential Labs duration : 1 hour) (Snacks will be provided from 2:30 to 4:30pm)	(Essential Labs duration : 30min to 45min) Depending on final number of participants and station (Snacks will be provided from 2:30 to 4:30pm)	(Essential Labs duration : 30min to 45min) Depending on final number of participants and station (Snacks will be provided from 2:30 to 4:30pm)	

Lectures: Morning Lectures are open to all (no registration required, **location:** Seminar room at IBV level 3627)

[Links to Online Lectures](#)

Social Dinner: 3rd May, 6:30pm, ShangHai 2K18

Hands on: Afternoon hands on are for registered students only.

Students will be grouped into groups with 4-5 students with similar research interests. Student groups will rotate among different stations and will learn to operate different microscopes with expert help. Students can bring their own sample, or standard test sample will be provided.

Systems for Demonstration during Workshop

Leica Stellaris 5

Nikon, Abberior STED, N-STORM

Chip Based TIRF (Balpreet)

Cell Link Bio Printer

Cytosmart

Hamamatsu Gemini 2C



Titles and Abstracts

Speaker: Matthew Hartley

Time: Tuesday, 3rd May, 11am to 12pm

Zoom Link: <https://uio.zoom.us/j/62683509368?pwd=YUR1czNQQRjNobIRROGINWS9yVTIOZz09>

Meeting ID: 626 8350 9368

Passcode: 785931

Title: Managing your image data, from capture to publication

What electronic biological images are, what image metadata is and why it's important.

- * Imaging file formats.
- * Managing your image data pre-publication.
- * Publishing your image data.