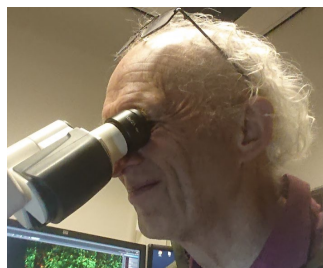


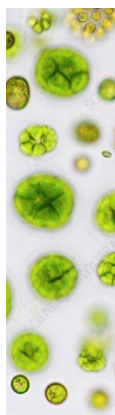
UMIC offers training and access to advanced microscopes and image processing. This newsletter informs users about innovations and events and invites users for feedback.

OPEN HOUSE & FAREWELL KLAAS SJOLLEMA



Save the date:

**April
5th**



Wim van Egmond (tentative) gives a view on the small living world (image WvE).

CONTACT UMIC always via unic@umcg.nl

Anouk, Axel, Ben, Daan, Jeroen, Kim or Klaas will help.

For now **we wish you a COLOURFUL 2024!**



UPDATE MACHINES O&O INVESTMENT PLAN

The plan has been crucial to acquire systems for (1) 3D and live acquisition; (2) nanometer-range resolution; (3) label-free identification of structures.

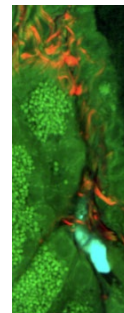
The Leica SP8 is our workhorse: easy to use high-end confocal with advanced functions for precise, background-free 3D imaging.

The Zeiss Cell Discoverer 7 is a highly versatile high-end widefield & confocal microscope for many vessel and slide types. *The* instrument for life cell imaging. Book on time, it is heavily used.

The Zeiss Lightset (LS7) superb for 3D analysis in bigger living systems like larvae & organoids and extreme fast acquisition and low phototoxicity!

ColorEM: The Talos200 for regular transmission electron microscopy, serial section (Color)EM and more. Label free ColorEM to identify biomolecules better exemplified by the prize-winning data below!

The Leica Stellaris CRS is the first instrument capable of identifying molecule types without any labeling using Raman light scattering. Exciting first results! Also for regular CLSM, lifetime and second harmonics imaging. Exocrine granules and other structures (green), erythrocytes (in blue), collagen (red). Pancreas zebrafish larvae, labelfree!



Spatial Omics - Transcriptomic and proteomic profiling at the near cellular level with the **nanosting GeoMx DSP** is available for users. In 2024 the **10X genomics Xenium** will allow for (sub)cellular spatial omics. Stay tuned!

COURSE: CELLULAR IMAGING ADVANCED

Microscopy of biomolecules applied in YOUR project using super(de)superresolution microscopy. Localization (**ONI**) as well as **STED** microscopy will be available. Other highlights are **FLIM** and **ColorEM**. **Subscribe NOW!** Students already have Cellular Imaging Light certificate

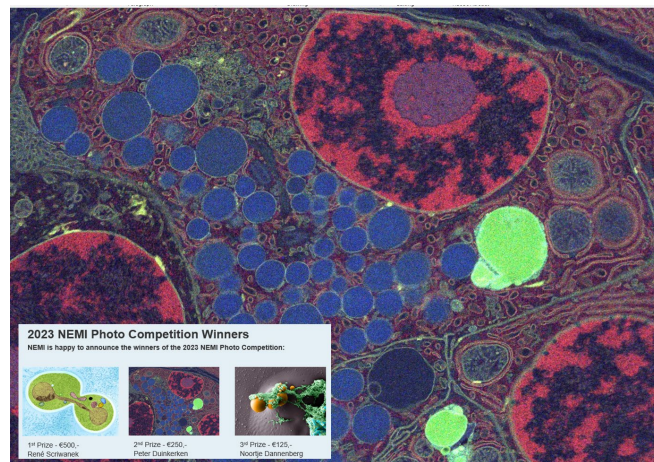
March 11-15th Techniques and sample preparation

March 16-31st Prepare your samples in your lab

April 2-4th Image acquisition & analysis

April 9th Presentations

Peter Duinkerken & ColorEM: Prize-winning!



Contact us for a 2024 NEMI calendar featuring ColorEM

Contact: [unic.info](http://www.unic.info) or unic@umcg.nl