

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

CONTACT UMIC TEAM VIA UMIC@UMCG.NL

unic@umcg.nl is the way to reach out to UMIC staff. The most appropriate person will help you.

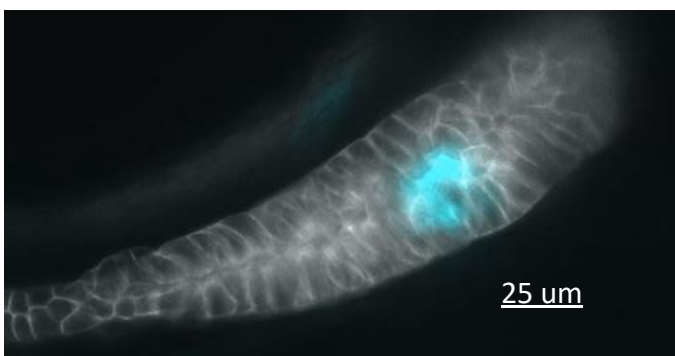
NOW HIRING [TECHNICIAN FOR UMIC-EM](#)

ELECTRON MICROSCOPES: CURRENT STATUS

Downtime of the microscopes was dramatic in 2022. The Supra55 is now well served and fully functional, the Talos as well, except for the EDX detectors. UMIC is looking for a back-up microscope, as well as investing in [FAST-EM](#) functionality.

SUPERB LIVE IMAGING IN LARVAE & ORGANOIDS

The [Zeiss Lightsheet 7](#) allows fast acquisition with low phototoxicity. Ideal for 3D analysis in e.g. living zebrafish larvae (pancreas is shown below).



MULTI-WELL ANALYSIS IN AN INCUBATOR

The Incucyte zoom has been replaced with the [Incucyte 3B](#). Image & analyze while cells grow!

WIDEFIELD FOR LIVE CELL AND INFRARED (IR)

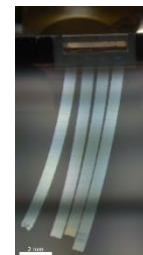
After some hick-ups, the [Leica Thunder](#) is ready to use for your infrared dyes (CW800 and others).

NANOSTRING: SEQUENCING BEYOND THE IMAGE

[Nanostring GeoMX](#) allows spatial profiling of your samples: select, cleave, sequence your ROI.

ULTRAMICROTOMY GOES 3D

Tomography, 3D EM at high resolution on the [Talos](#), as well as high volume EM on serial sections cut with the [Leica ARTOS](#) ultramicrotome are available.



UPCOMING TRAINING & CONFERENCES

2023-06-06 [ELMI](#), Noordwijkerhout*

Everything about (advanced) light microscopy. Users, facility staff and industry gather to discuss the latest and future applications & techniques.


* €100 discount for current [NVvM](#) members.

[Cellular Imaging Courses](#) will be organized when students [subscribe](#). The program includes lectures (microscopy; sample prep) and workshops on Image processing and analyzing ultrastructure.

OPEN RESEARCH AWARD NANOTOMY DATABASE

The 'Google Islet' EM [database](#) for type 1 diabetes wins an Open Research Award 2022. Presentation will be at the [award ceremony](#) on November 17th.

MOVING DATA FROM USB STICK TO SERVER

 **OMERO** An online repository to save, analyze and share images will become available soon. We will guide you how to use it in 2023.

COMING SOON (2023Q2): [LEICA STELLARIS CRS](#)

Confocal, non-linear, label-free, FLIM & more...