

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

ACCES: BUSINESS HOURS & GLASSES

UMIC operates in a **normal fashion**, during business hours. **Glasses when approaching oculars are mandatory.**

NEW FUNCTIONALITIES

The [sputter coater ACE600](#)

will facilitate EM-sample preparation. It can make samples conductive with chrome which enables higher resolution SEM compared to the older version with Pd/Au.

Carbon coating is now possible in a well-controlled manner. Top of the bill is the glow discharge option to make surfaces more hydrophilic facilitating sample adherence, beyond EM sample prep.



The [Leica laser microdissection microscope](#), formerly pathology, has been upgraded, including new hardware and software, and is now part of UMIC.

The [CD7 robot](#) is up&running now. Up to 42 plates can be imaged fully automated (at 37°C) in widefield fluorescence or confocal mode.

COMING NEXT: MORE NANOTOMY WITH FAST-EM

In the UMCG niche to digitize entire samples from local labs/ the world, throughput is a bottleneck. [Delmic's FAST-EM](#) (NEMI Roadmap) will speed up acquisition a 100x fold and is expected April 8th. To be continued...



DEMONSTRATION



A [Leica Thunder](#) fluorescence microscope for high-speed, high-quality imaging of (living) specimens will be available March 17-24. [spots available](#)

GOODBYE CM100, WELCOME TALOS!



The TalosF200i is a versatile transmission EM with sub-nanometer resolution. MAPS software is capable of recording and stitching multiple images. It is also equipped with detectors for elemental detection, aka '[ColorEM](#)', as well as automated tomography: 3D imaging at the nanoscale. The CM100 is no more...

UPCOMING TRAINING & CONFERENCES

2021-05-12 [Course Cellular Imaging Light](#)

2021-05-26 [NWO Life](#)

2021-10-12 [Dutch Biophysics w/ Stefan Hell](#)

More national news: www.microscopy.nl