**UMIC Newsletter nr.03** September 21st 2020

www.umic.info

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

**ACCCES: BUSINESS HOURS & GLASSES**

UMIC operates in a **normal fashion**, except (i) normal operating hours are Mon-Fri between 9-17hrs; (ii) wearing (safety) glasses when approaching oculars is mandatory.

**NEW FUNCTIONALITIES**

The Zeiss cell discoverer/ confocal microscope is now fully operational. The system is attached to an incubator that can hold 42 plates for automated live-cell microscopy screens.

Thanks to the Airy scan of this system, as well as deconvolution on the Leica SP8X resolution is now superb in comparison with other light microscopes.

The Incucyte Zoom (formerly ERIBA) is now integrated in the UMIC infrastructure.

**DEMONSTRATIONS**

Zeiss lightsheet microscope LS7

Light sheet microscopy is extremely well suited for fast 3D imaging of multicellular targets like larvae & organoids. A revolution in fast imaging with efficient collection of photons of the emitted fluorophores: Measure development, differentiation, proliferation incredibly fast. We still have some spots available (October 2 to 6 2020). *Light sheet microscopy will revolutionize live-cell imaging.*

Olympus fluorescence slide-scanner VS200

October 10 to 19 2020 the Olympus VS200 will be yours to try. Mail for information.

**UPCOMING TRAINING & CONFERENCES**

2020-10-05 Dutch Biophysics

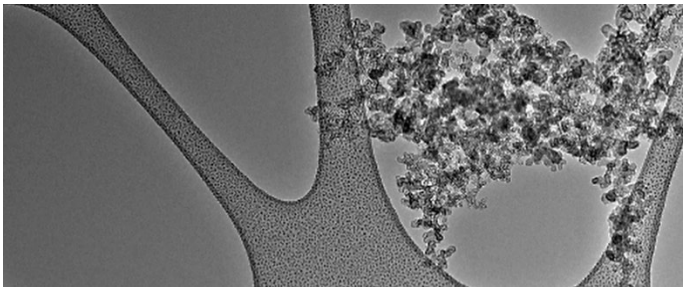
**MICROSCOPY COURSE**

Cellular Imaging Light will be organized in an online format (November) when 20 people subscribe. The program includes lectures (intro light & electron microscopy; sample prep; advanced microscopy) as well as introductory workshops Image processing (Fiji), EM (nanotomy), presentation (ppt), in silico cloning and expression of GFP fusion proteins.

**COMING NEXT: ColorEM & 3D EM**

EM typically gives grey-scale images. The TALOS200 replacing the >20 years old transmission microscope is equipped with two EDX detectors for 'ColorEM' as well as a fully automated module for tomography: 3D imaging at the nanoscale. Training of UMIC staff on this unique system will be finished in November.

UMIC, 17-09-2020, acceptance of the TALOS200 EM



Click for movie of the first 3D data (test-sample).

*Contact: umic.info*