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

NEW FUNCTIONALITIES @ UMIC
This year several new microscopic approaches will become available. Today we introduce the Light Sheet Microscopy system.

NOW OPERATIONAL: Leica SP8 Digital Light Sheet
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. **Light sheet microscopy will revolutionize live-cell imaging.**

First local light sheet experiment tracking live cells in zebrafish prime (x, y, z, time, multi-color; Nynke Oosterhof (Paridaen lab).

STILL 2 USER COMMITTEE (UC) MEMBERS NEEDED!
UMIC is advised by a UC from different departments. Are you knowledgeable in the field of advanced microscopy and interested to join? Please let us know! [Send an email](mailto:umic-info@umc.nl).

MICROSCOPY TRAINING IN YOUR PhD-PROJECT
2 spots left: [Cellular Imaging Advanced](https://www.umc.nl) (2020-04-13)

ZEISS SCANNER (FLUORESCENCE SLIDES) ON DEMO
2020-03-12/13 the **Z1** will be available for testing

SAMPLE PREP – NEW VIBRATOME INSTALLED
The vibratome has been replaced/ upgraded to a novel Leica system. Feel free to use.

NEXT NEWSLETTER: HIGH CONTENT MICROSCOPY
High content widefield is already available using the Incucyte (see previous newsletter), but capacity for users (with 6 plates max) is limiting. Soon we will have available a confocal time-lapse microscopy for up to 40x 384 well plates for screening assay, robot-assisted. Training of UMIC staff on this unique (=first worldwide) system will be finished in March.

UPCOMING TRAINING & CONFERENCES
2020-05-26 [NWO Life2020](https://www.umc.nl)
2020-06-09 [ELMI2020 (Light microscopy/ CLEM)](https://www.umc.nl)
2020-08-23 [EMS2020 (Electron microscopy/ CLEM)](https://www.umc.nl)