Cellular Imaging Core Facility - CELLIM

Image processing computer workstation - Galibier

Location:
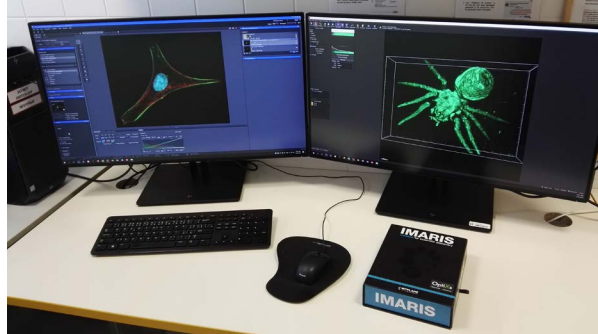CELLIM, building A2, room 1.18a

Booking alias:
Galibier

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More information:

Reservations:

https://booking.ceitec.cz/PlanningBoard.html

Overview:

Image processing workstation Galibier with installed full version of *IMARIS 9.5, ZEN Blue, ZEN Black* and open source software *FIJI/ImageJ* and *Cell Profiler*.

Specifications:

Hardware

CPU
Intel Xeon Gold 6134 - 3.2 GHz,
8 cores # 16 threads

RAM
128 GB

GPU card
Nvidia Quadro P6000 24GB,
3840 CUDA cores

Software

IMARIS 9.5 - Measurement pro, Imaris Coloc, Filament Tracer, Imaris Cell, Imaris Track Lineage, Imaris XT, Imaris Vantage, Imaris Batch, Imaris File Converter

ZEN - Airyscan and Apotome processing, Deconvolution, PSF calculation, 3D rendering, colocalisation, FRET and FRAP analysis, spectral unmixing, colocalisation

FIJI, Cell Profiler

Examples:

IMARIS 9.5 provides a complete set of features for visualization of multi-channel microscopy dataset from static 2D images to 3D time series regardless of their size and format.
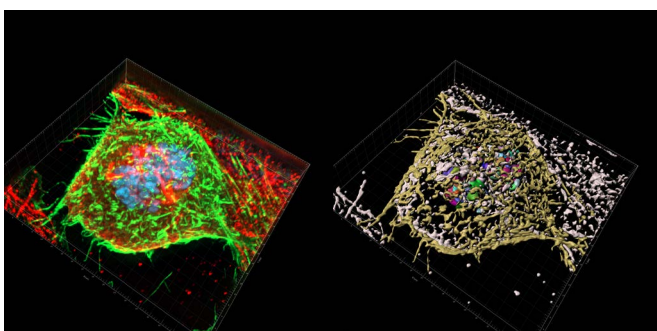
Deconvolution (ZEN) is image processing method which improves contrast and resolution of microscopic images. Image on left was taken using standard widefield microscope. It is blurred because it contains signal from out of focus planes. After deconvolution image is much sharper, right side.