Cellular Imaging Core Facility - CELLIM

Fluorescence stereomicroscope Olympus SZX16

Location:
CELLIM, building A26, room 1S23

Booking alias:
StereoOlympus-A26

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More information:

SCAN ME

Reservations:

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

Overview:

The SZX16 is designed for advanced research and is suitable for oblique, brightfield and fluorescence illumination. Its maximum numerical aperture (NA) of 0.3 produces a resolution of 900 linepairs per millimeter, enabling more sample information to be gained efficiently. The large zoom ratio of 16.4:1, combined with the comprehensive range of parfocal objectives with excellent working distances, allows easy switching between a macro- and micro-view. Imaging of the whole organism down to fine microscopic and individual cell structures becomes an easy task with an optical system that provides a natural, distortion-free view.

Specifications:

Objectives
SDFPLAPO 0.5xPF - mag. 3.6x - 57.5x
SDFPLAPO 1.6xPF - mag. 11.2x - 184x

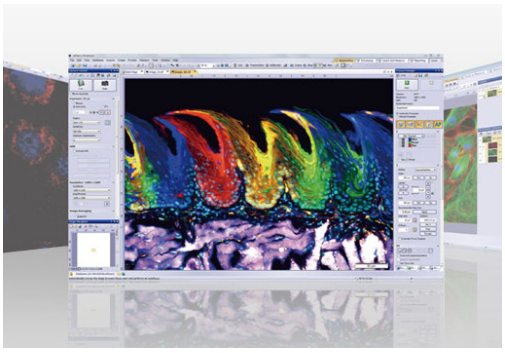
Transmitted light techniques
Brightfield and oblique illumination

Fluorescence light source
CoolLED pE-300white

Filters
UV, GFPA , YFP HQ, RFP2

Camera
OLYMPUS DP73, Cooled colour CCD
4800 x 3600 pixels, 4.40 x 4.40 µm size

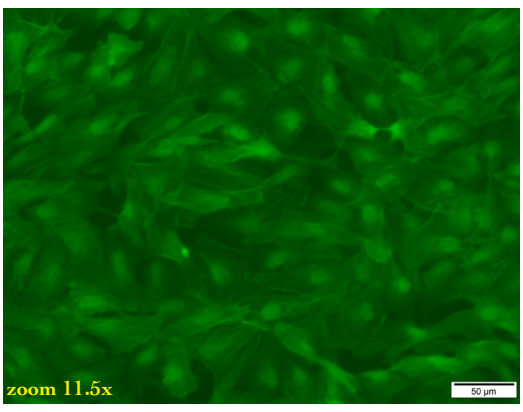
Software
CellSens



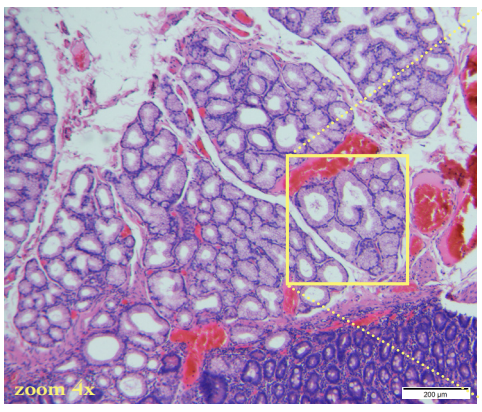
Manual:

SCAN ME

Examples:



Actin filaments (Phalloidin Alexa 488) **in mammalian cells.**
Objective: SDFPLAPO 1.6xPF



Histological section - duodenum. Brightfield.
Objective: SDFPLAPO 1.6xPF