

## **Microscope information sheet (18 April 2023)**

**System name:** Stellaris digital light sheet and confocal laser scanning microscope

(Installed 6-9 Dec 2022. System S/N: 8200000663. Warranty extension: 3 Y till Dec 2026)

**Location:** Lab J2.10 WMI building. WIMR asset # 003509.

**Microscope:** Leica DMI8 CS premium with motorised scanning stage and closed loop focus with AFC, Super Z galvo stage, optical table 900 x 900 actively damped

**Lasers:** 405nm DMOD (VIS & UV laser Diodes), 448nm, WWL (485-790nm)

**Scanner system:** 8kHz tandem scanner Stellaris 5 (galvanometric and resonant scanners)

**Detection system:** 3x HyD (Channels 1, 2 and 3) and PMT for brightfield channel

**Epi-fluorescence Illumination:** LED3: S/N: 25890; Item No: 11504254

**Computer:** CUDA workstation premium (with computer table)

**Acquisition Software:** Leica Application Suite X (LASX) 4.5.0.25531

**Analysis software:** Aivia Go (1 year licence, V12.0, installed on the analysis PC) SN 8200000663

### **Weather station for live cell imaging:**

- Okolab H201-LG sample chamber (no heating feature) inv Super Z. Min condenser working distance: 26mm.
- Okolab DLS on stage incubator
- Okolab C)2 humidity activ

### **Digital light sheet (DLS):**

- Fluorescent notch filter for DLS detection: 405/488/561/638  
Emissions: 414-478 nm, 495-550 nm, 571-626 nm, 651-900 nm  
Excitations: 400-410 nm, 484-492 nm, 559-563 nm, 636-641 nm
- DLS TwinFlect 5mm, DLS TwinFlect 2.5mm
- U-shaped capillaries, 20 mm x 1.5 mm
- Camera: Hamamatsu Ocra-flash 4.0 camera (13 Sept 2022); Part No.: C13440-20CU; SN: 305939
- Obj. HC APO L10x/0.30 W DLS; Obj. HC FLUOTAR L25x/0.95 W DLS

### **Objectives:**

- Obj. HC PL FLUOTAR 2.5x/0.07
- Obj. HC PL FLUOTAR 4x/0.13
- Obj. HC PL APO 20x/0.75 CS2
- Obj. HC PL APO 40x/1.10 W motCORR CS2 (SN: 8200000663)

- Obj. HC PL APO 63x/1.40 OIL CS2

**Fluorescent filters:** triple cube DAPI/FITC/TRITC

**Local data storage:** DATAINT (E:)/user\_data/folder in your name

**Contact**

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**Manuscript description example:** Image acquisition was conducted using a xx objective on the Stellaris 5 DLS system with Leica Application Suite X (LASX) 4.5.0.25531 software (Leica, Germany). Images were processed using Aivia Go V12.0 software (Leica, Germany) and Illustrator (Adobe Systems Inc., USA).

**40x water objective info sheet**

Name: Obj. HC PL APO 40x/1.10 W motCORR CS2 (installed on 28 Feb 2023)

Material number: 15506388

S/N: 8200000663 Customs Tarriff No: 90021900

Country of Origin: Germany

Weight: 0.6kg

Custom No (WIMR): 1317417

WIMR PO ref: POW-026114 alt product

Leica contact: Mackenzie [mac.mackenzie@leica-microsystems.com](mailto:mac.mackenzie@leica-microsystems.com)