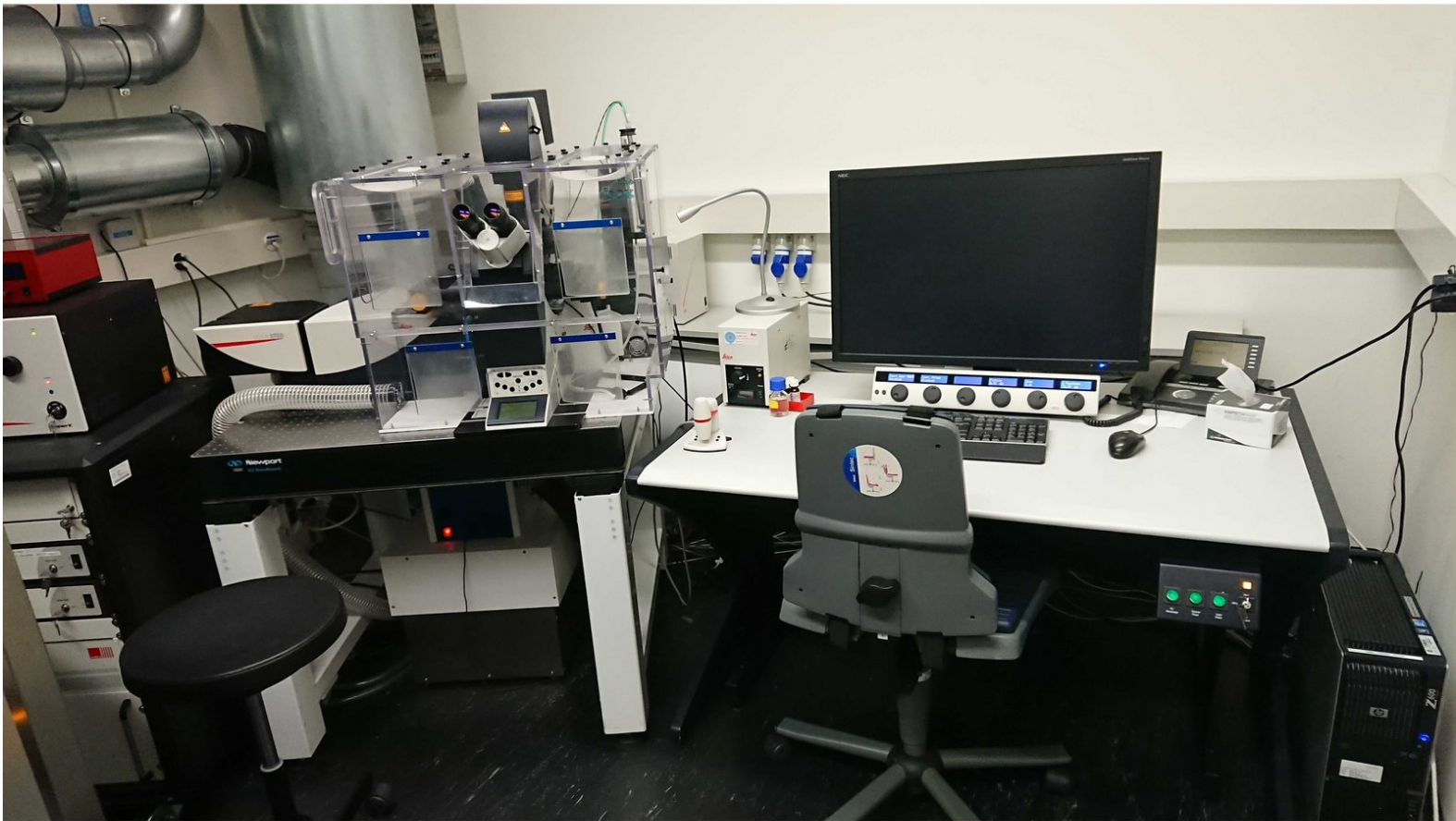


# Leica SP8 inverse STED 3X (Irchel): Shut down

How to shut down the Leica SP8 inverse confocal laser scanning microscope located at Y42-H-81.

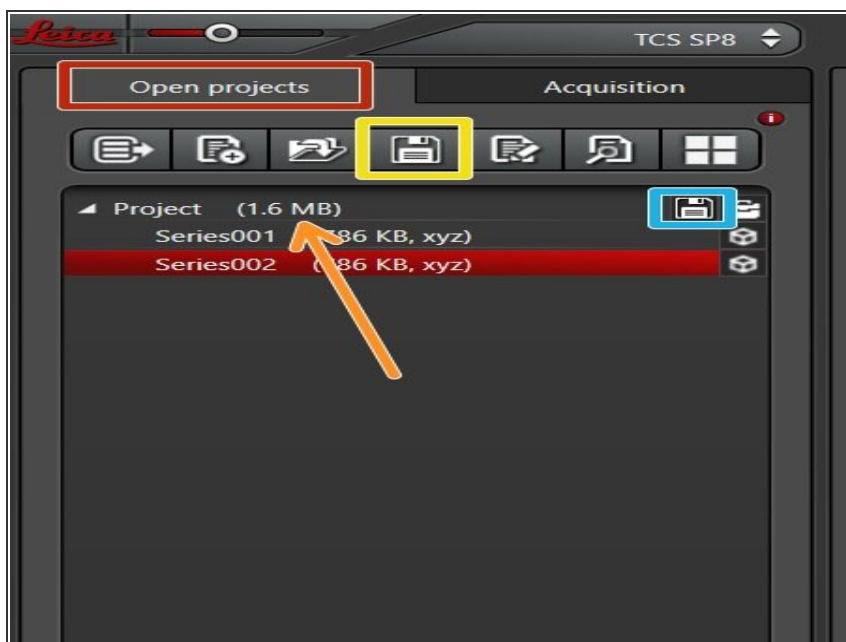
Written By: Jana Döhner



# INTRODUCTION

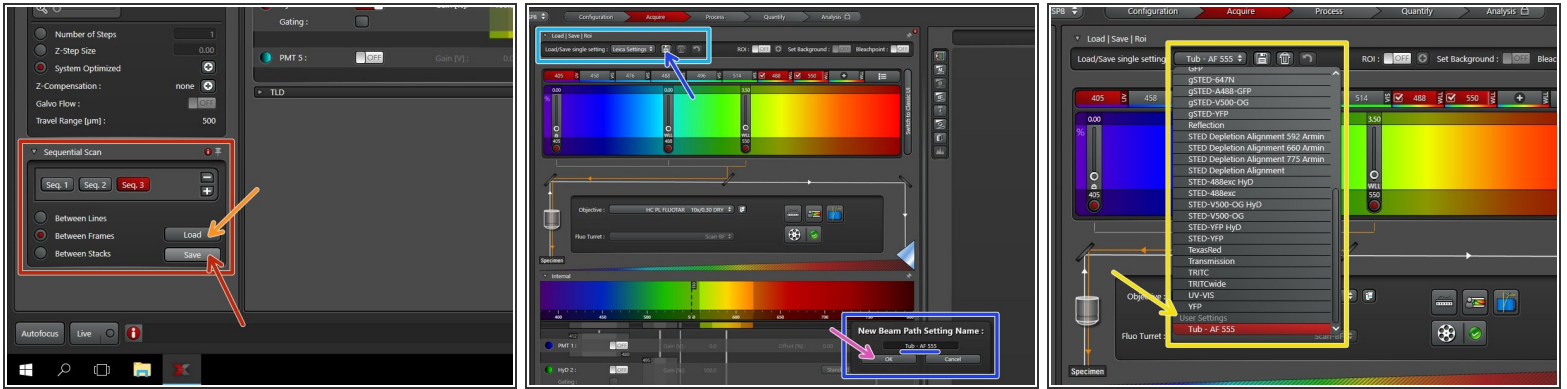
In this guide of the Center for Microscopy and Image Analysis we show how to shut down the Leica SP8 inverse confocal laser scanning microscope located at Y42-H-81.

## Step 1 — Saving your data



- Go to **"Open Projects"** tab.
- **Save your data**
  - by either **right-clicking** on the "Project",
  - using the **"Save All" icon** on top,
  - or clicking the **save sign** behind the "Project".
- ☑ Please save your data on your core storage (network path: **"\\files.core.uzh.ch"**).
- ⓘ Please follow our instructions [here](#) on how to access your data.

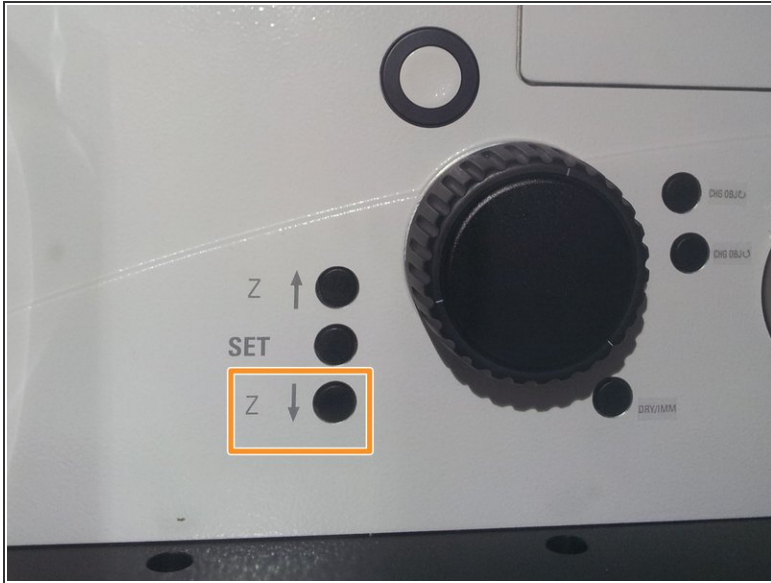
## Step 2 — Saving your settings



**i** You can save your settings and reuse them by loading them in your next imaging session. By default the following settings will be loaded: laser intensities, detector settings, averaging and accumulation settings.

- Save your **sequential scan settings** if applicable.
  - In your next imaging session you just need to **activate "Seq"** and click **"Load"** in order to retrieve your scan settings.
- To save only **single channel settings**:
  - Click the **"Save-Sign"** and choose an appropriate name for saving.
  - Click **"Ok"**.
  - You can now find your single channel setting under **"User Settings"**.

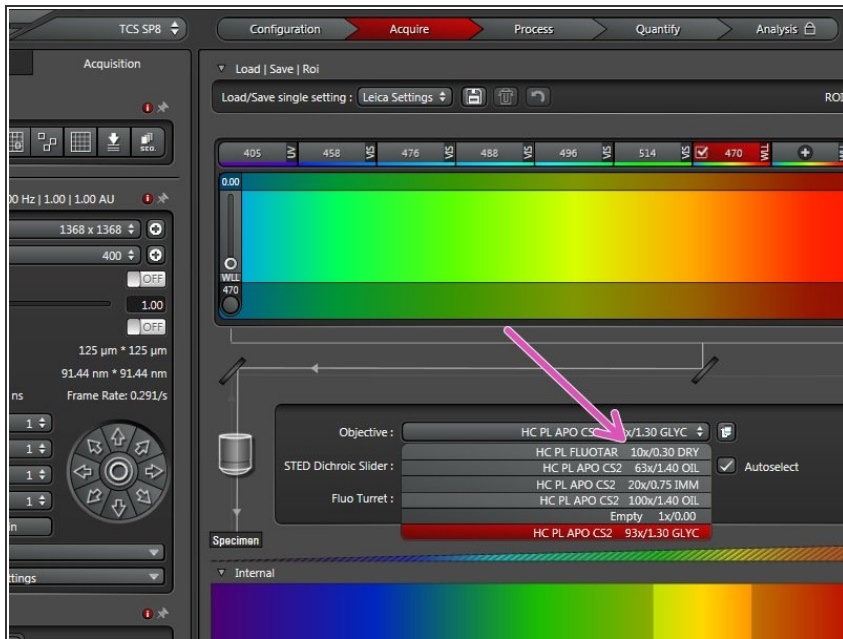
### Step 3 — Cleaning



- Lower the **objectives** and remove your sample.
- Clean the immersion objective(s) you have used with the available **"KIMTECH" wipes** and **100% EtOH**.
  - ⚠ Always clean the lenses in concentric circles and from the center to the edge. Clean also the sides of the objective(s).
- ⓘ Please also take care that immersion media has been cleaned off of all the other microscope parts which got in touch with.

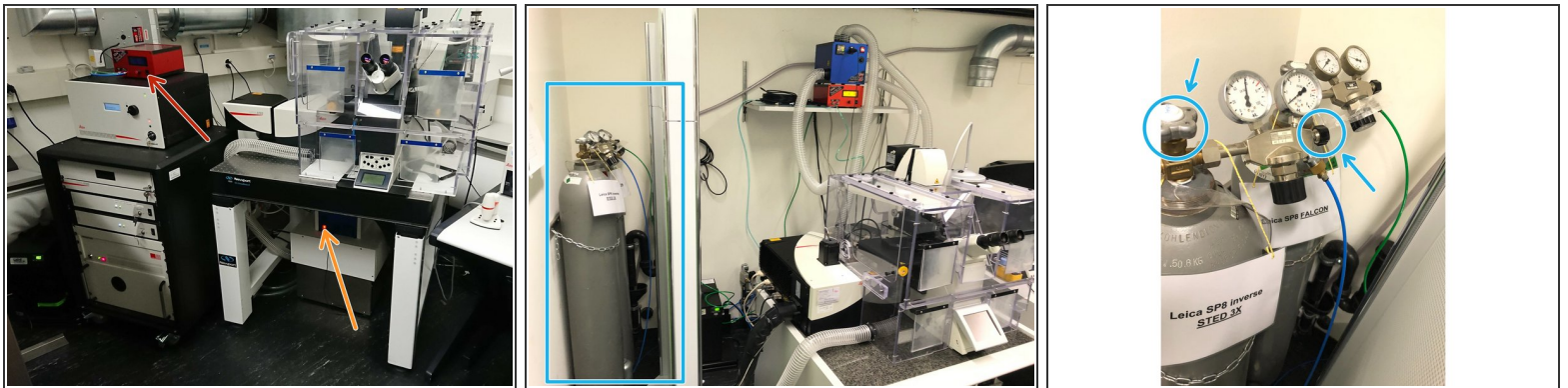


## Step 4 — Switch to the 10x objective



- Switch to the **10x dry objective**.

## Step 5 — Optional - Switch OFF environmental control

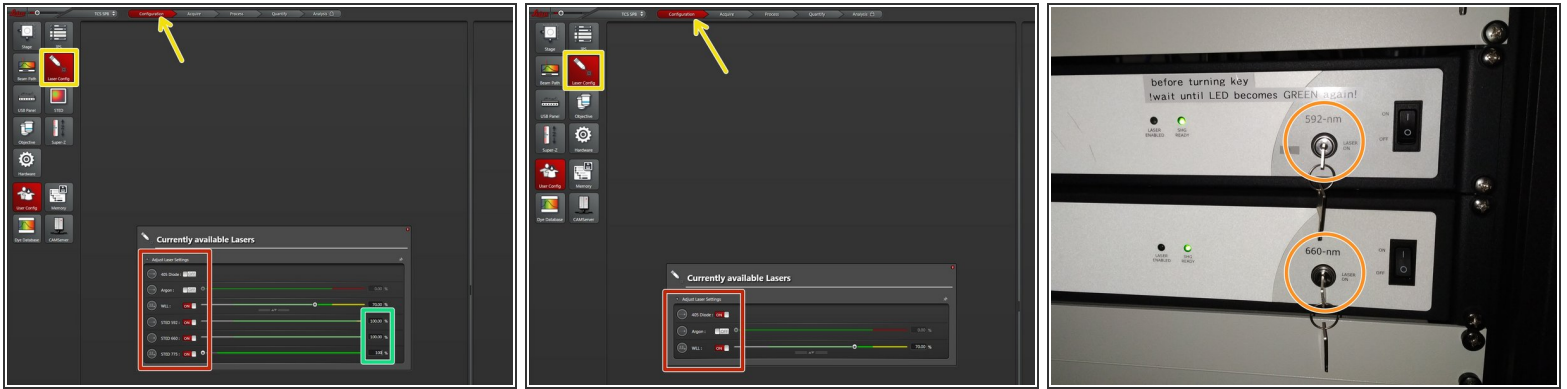


**⚠ Only follow this step if environmental control was applied during your experiment.**

**i** 37°C and 5% CO<sub>2</sub> are set as a standard. If you have changed it during your experiment, please set it back to the standard values.

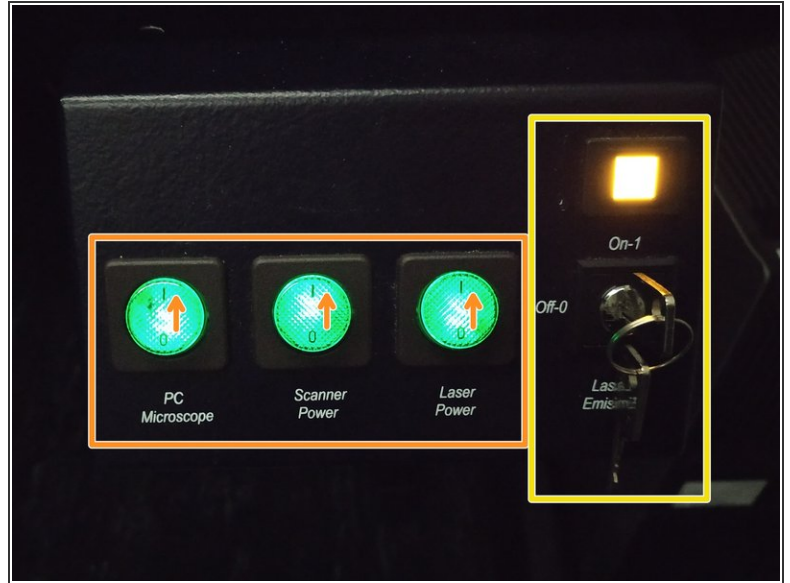
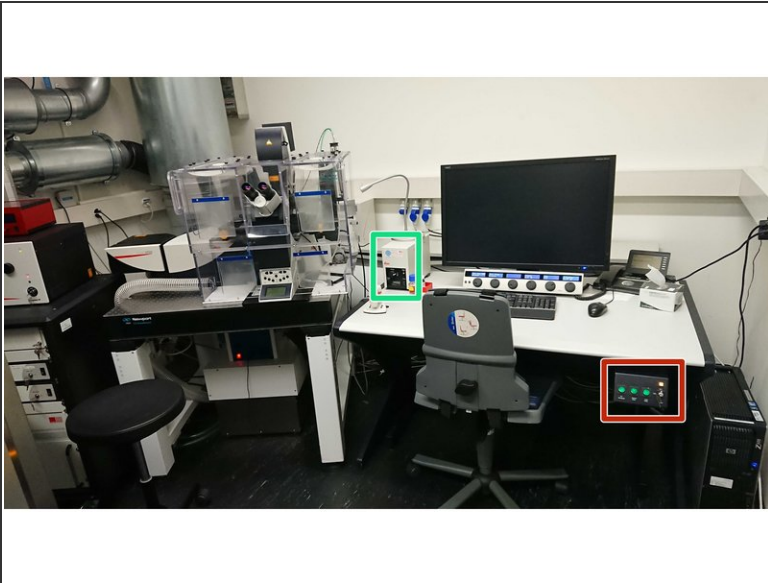
- **Switch off** the heating cube (*underneath microscope table*).
- **Switch off** the brick (CO<sub>2</sub> control).
- **Close** the dedicated **valves** of the gas supplies.

## Step 6 — Lasers and closing the "LAS X" software



- Go to **"Configuration"** and choose **"Laser Config"**.
- If applicable, lower the power to **0%** for the **STED lasers**.
- Switch **OFF** all lasers.
- If STED was used, turn **OFF** the **Laser Emission Keys** of the 592nm and 660nm STED lasers.
- ⚠ Check in the booking system if there is another booking within the next 2 hours.
  - If **YES**, close the **"LAS X"** software and **Sign-Out**.
  - If **NO**, close the **"LAS X"** software, **shut-down** the **PC** and follow the next step.

## Step 7 — Switch OFF hardware



⚠ Only follow this step if there is no booking within the next 2 hours.

- Switch-OFF the **fluorescence lamp**.
- On the **main switch board**
  - turn the "**Laser Emission**" key to "Off-0",
  - and switch OFF the "**Scanner Power**", "**Laser Power**" and "**PC/Microscope**".

⚠ Take care the PC has been fully shut-down before.