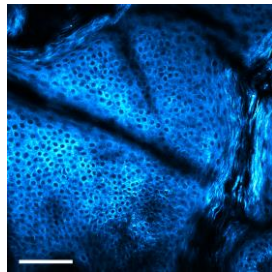


Cycle offers an applications lab to interested parties, who want to experience the advantages of the new SOPRANO femtosecond light source for multiphoton imaging.

The microscope setup consists of the following:

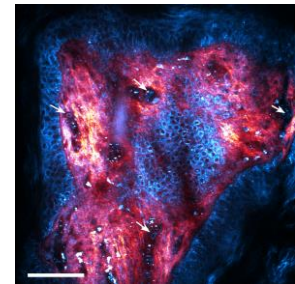


Objective lens 25x  
water immersive,  
NA 1.05 , WD 2 mm  
Olympus  
XLPLN25XWMP2

Photomultiplier tubes (PMT):



Hamamatsu  
H10721-210,  
H7422P-40,  
H7422P-50,



1300 nm tunable

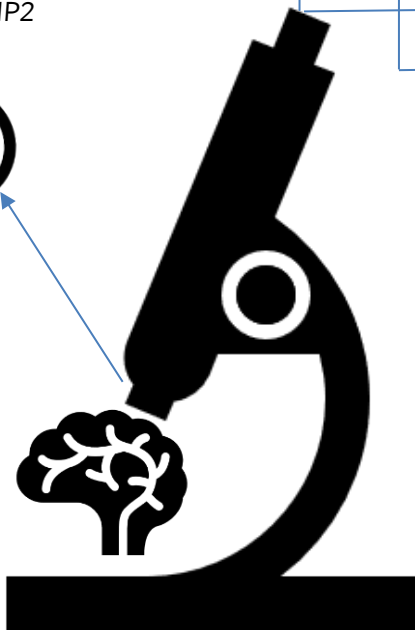
1700 nm tunable

1550 nm

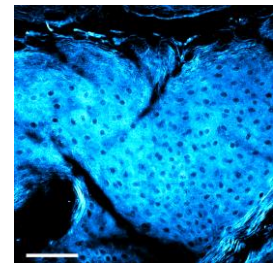
775 nm



Cycle SOPRANO  
31MHz, 100fs, 500 mW



Scanning microscope  
MPM-2PKIT Thorlabs  
with resonant scanner  
and mirror galvo



The multiphoton microscope is flexible for different modalities, e.g., **second-/third-harmonic generation (SHG/THG)** and **two-/three-photon excitation fluorescence (2PEF/3PEF)**. The imaging system consists of a fiber-laser-based ultrafast laser source and a scanning microscope. The laser operates at 31-MHz repetition rate and generates femtosecond pulses (typical ~100-fs pulse duration) tunable in the range of 1150-1700 nm and at 775 nm. The scanning microscope (MPM-2PKIT, Thorlabs) consists of a resonant scanner and a mirror galvanometer. The 25× objective lens (XLPLN25XWMP2, Olympus) is water immersive with 1.05 numerical aperture (NA) and 2-mm working distance (WD). We have three types of photomultiplier tube (PMT) (H10721-210, H7422P-40, and H7422P-50, Hamamatsu) for signal detection. Their sensitivity peaks at 420nm, 580 nm, and 800 nm, respectively.

**Please contact us to schedule your trial!**