



PROSPECTIVE

IMAGING SERVICES

USE OUR IN-HOUSE IMAGING SERVICE OR
BOOK A DEMO DEVICE

Prospective offers two main imaging services: an in-house imaging service in our Dornbirn (Austria) facility and the possibility to book a demo device.

The in-house imaging service offers the option to either come by, visit our facility and scan the samples together with our scientists, or send us your samples for characterization. On request our scientist will video chat with you through the working process.

You can be assured our scientist will scan your samples according to your requirements and specifications. All samples will be handled with premium care and caution.

The measurement equipment is checked, updated, and calibrated regularly to ensure the best quality and reliability possible for your acquisitions.

However, we also understand it is sometimes essential to work in a well-known environment with staff already instructed on your working routine. This is why we offer the unique possibility to book one of our well-equipped demo devices. You can easily integrate high-quality multi-photon microscopy in your working process which will support you to get your research done faster – with your team, your lab, your samples.



IMAGING SERVICE SETUPS

WIDEFIELD FLUORESCENCE

- Upright and inverted configuration
- Illumination source: 8 discrete output bands through UV-NIR (380 – 750 nm), >200 mW / channel at the sample
- Variable filter sets for experiment dependent customized imaging
- sCMOS monochrome camera with >95% QE
- Color camera for brightfield imaging

MULTI-PHOTON FLUORESCENCE

- Upright and inverted configuration
- Laser light sources used in MPX-1040, MPX-Dual & MPX-Tune: >600 mW <130fs 80MHz pulses at 1040 nm; >200 mW <130fs 80MHz pulses at 920 nm
- 4 simultaneous PMT channels for 2-photon, 3-photon, SHG and THG imaging, GaAsP PMTs with low dark current, special selection
- Variable filter sets for experiment dependent customized imaging
- Galvo-galvo scanning, up to 900 μm FOV
- Pixel up to 2048 x 2048

WHOLE SLIDE IMAGING (WSI)

- Upright or inverted configuration
- Automatic slide scanning
- Fully automated slide loading (up to 200 slides)
- Widefield or multi-photon setup

FLUORESCENCE LIFETIME IMAGING (FLIM)

- Frequency Domain FLIM with modulatable CMOS imaging sensor
- pco.flim: operable frequency range of 5 kHz - 40 MHz, lifetime resolution of 100 ps
- excitation laser with wavelengths: 405 nm (120 mW), 445 nm (100 mW)
- Variable excitation and emission filter sets for experiment dependent customized imaging
- Integrated in Nikon NIS Elements AR software

LIGHT SHEET – MesoSPIM V5

- Excitation laser with wavelengths: 405 nm, 488 nm, 638 nm
- Sample positioning with motorized XYZ - Stage
- Motorized zoom and focus module
- Imaging with Teledyne Photometrics Prime BSI Express with > 95% QE, 2048 x 2048 pixels and low read noise of 1.8 e-
- Part of the mesoSPIM community:
<https://mesospim.org>

ADDITIONAL EQUIPMENT:

- Motorized stage for tiling and z-stack imaging
- Piezo z-stage for high precision z-stacking.
- Objectives: 4x Air (NA 0.2; WD 20.0) , 16x Water (NA 0.8, WD 3.0), 20x Air (NA 0.75, WD 1.0), 25x Water (NA 1.0, WD 4.0), 40x Air (NA 0.95, WD 0.2), 60x Oil (NA 1.4, WD 0.21), 100x Oil (NA 1.4, WD 0.17)

DEMO DEVICE

- MPX-Dual with fixed wavelength at 1040 nm and 920 nm
- Shipment, installation and instruction by trained Prospective's engineers
- Integrated widefield and multi-photon fluorescence modality
- Upright and inverted configuration available
- Space saving construction also suitable for small laboratories and offices

The flexibility and high-quality engineering make the MPX system suitable for a broad range of applications:

- Imaging of 2D and 3D cell culture and organoids
- Deep tissue imaging
- Label-free imaging
- Immunohistochemistry / immunocytochemistry imaging
- Digital pathology

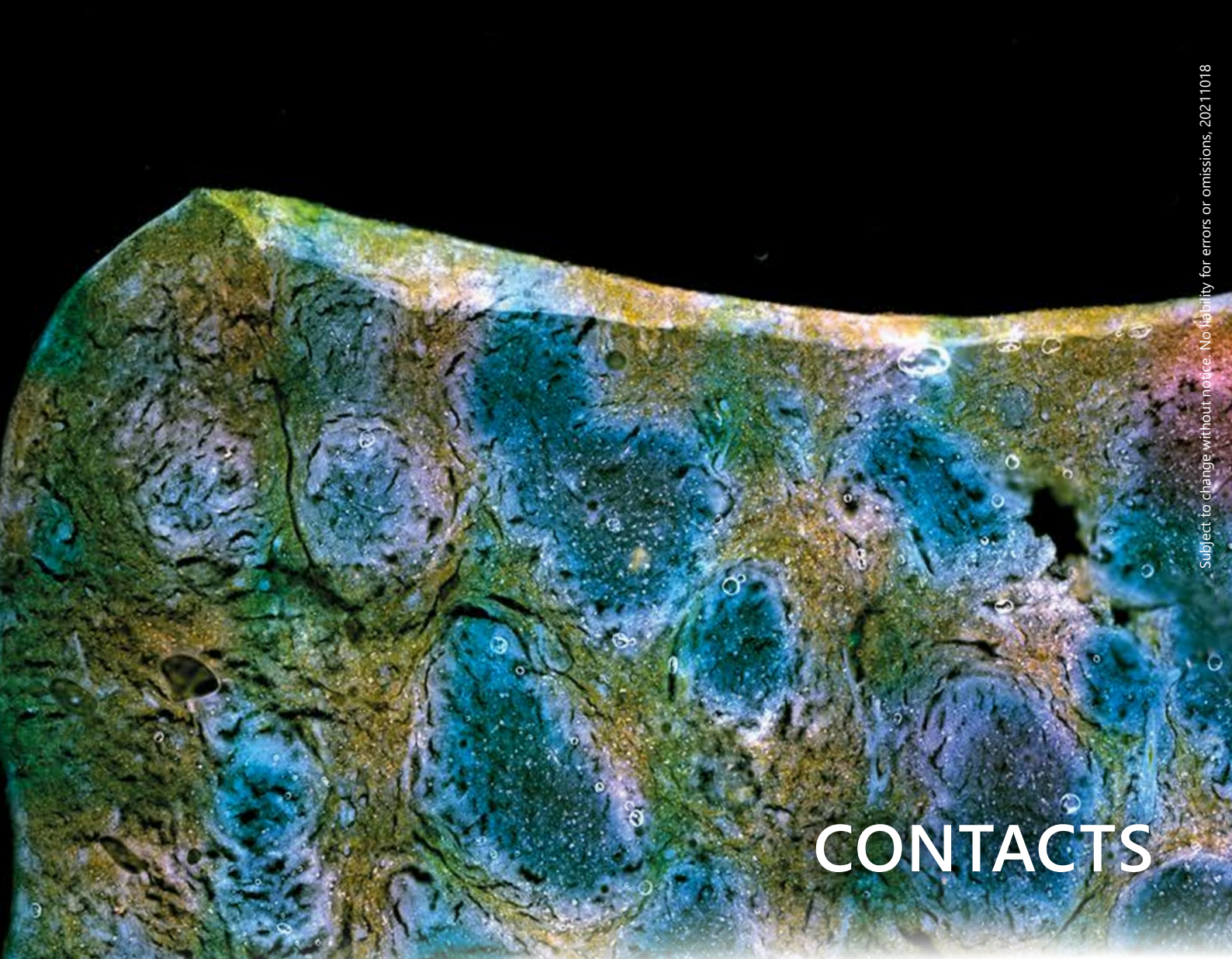
WIDEFIELD FLUORESCENCE MODALITY

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