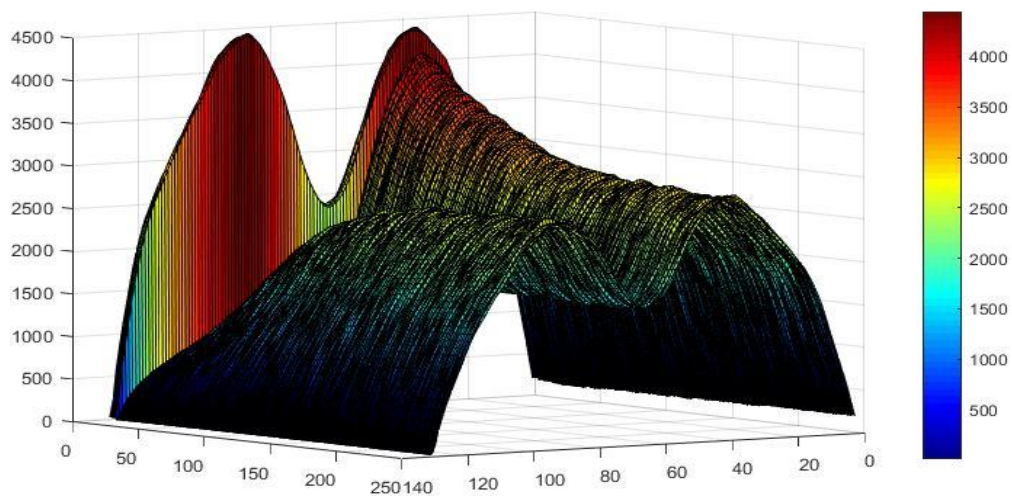


# BIOIMAGING-GR



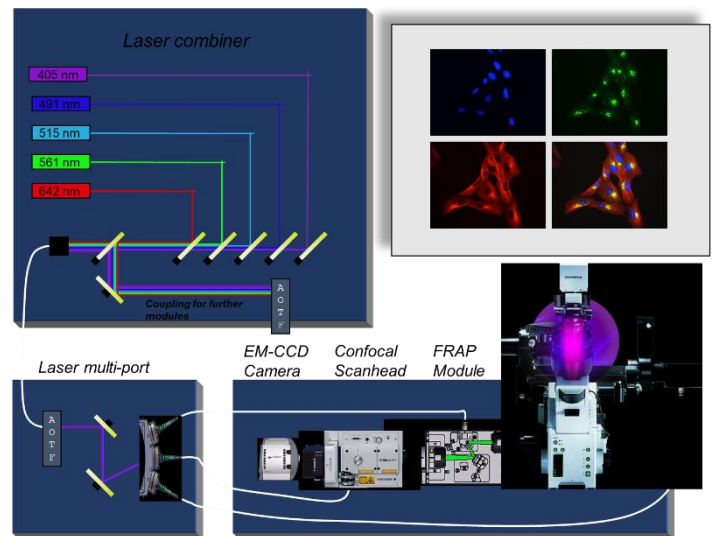
## About

The Bioimaging-GR-DUTH facility consists of a spinning disk confocal microscopy unit for *real-time* multi-color 3D/4D microscopy. It is an open access facility of the Democritus University of Thrace (DUTH) that was established at the end of 2009 (CIBIT-DUTH) as part of BioStrength, a €1m project funded by the EC under the FP7-Capacities.

From January 2020, a new 3-laser sheet Selective Plane Illumination Microscopy (SPIM) unit for 3-dimensional imaging, and a heating chamber will also be available.

## Specifications:

- Olympus IX81 inverted microscope mounted with 10x,20x,40x,60x and 100x lenses
- Andor Ixon 885 EM-CCD Camera
- Yokogawa CSU-X1 confocal scanhead (spinning disk) unit
- FRAP-PA Module
- 5 laser modules (405,491,515,561,642 nm)
- Acquisition/analysis Software: Andor IQ3.6



## Services/Techniques provided:

- Immunofluorescence
- Live cell imaging
- Fluorescence recovery after photobleaching (FRAP)
- Photoactivation (PA)
- Fluorescence Resonance Energy Transfer (FRET)

## Supporting Analysis Software

- FIJI/ImageJ
- Huygens Deconvolution Software- SVI
- MATLAB

**Data Storage:** NAS server available for data storage, access and transfer via network, with Username-specific account

**Booking System:** available online via gmail account, with given username and password to users. Booking calendar also available.

## People

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