Details

UKE Microscopy Imaging Facility (UMIF)

The UKE Microscopy Imaging Facility (UMIF) mission is to provide cutting edge state of the art light microscopy techniques to the scientific community as well as increase, diffuse and preserve the knowledge about light microscopy. UMIF pursues his goal following three main paths. UMIF will acquire and keep up to date advanced light microscopes that will allow scientists to perform research at a world class level. Researchers will be carefully trained and supported by UMIF personnel in order to use the best the facility equipment. Secondly UMIF will provide a series of basic and advanced workshops aimed to diffuse and keep the knowledge about light microscopy techniques as well as to inform scientist about the potential impact that these techniques can have on their research, The workshops will be hold by UMIF personnel itself, by top scientists and by high ranked companies in the field of light microscopy. Finally, the multi-disciplinary UMIF team will also keep contributing, on a small scale, to the development of advance light microscopy methods or techniques. This point is extremely important in order to fulfil the main aims of this imaging facility

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Host Institution

Universitätsklinikum Hamburg-Eppendorf
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https://www.uke.de

Scientific Domain

Primary Subjects:
- Biology
- Medicine

Secondary Subjects:
- Chemistry
- Physics

Category

Biomedical Imaging Facilities

Scientific Services

UMIF scientific oriented services are: Training user to optimally operate the facility microscopes. Regular check up and maintenance of the instruments. Training users to operate the image analysis workstation. Supporting user in designing light microscopy experiments especially for what regard the choice of labels, buffers as well as sample preparation protocols. To provide basics and advanced, semester based, light microscopy workshops. Help and support users in the purchase of basic lab-oriented microscopes. Actively participate in writing grants for the purchase of advanced light microscopy devices. Testing the more innovative light microscopy techniques available on the market.

Scientific Equipment

- Leica TCS SP5 confocal microscope
- Leica TCS SP8 confocal microscope
- Visitron Spinning Disk TIRF microscope

- Improvision Spinning Disk Microscope
- Zeiss Apotome fluorescence microscope
- Evident/Abbelight SMLM microscope
- Abberior expert line STED microscope
- Zeiss LSM confocal Microscope
- Sysmex slide scanner Mikroskop
- Workstation PC IV
- Olympus Wide Field fluorescence microscope
- Zeiss MP in vivo platform
- Evident/Phaseview light sheet microscope
- Evident Spinning Disk Microscope
- Evident FV3000 Confocal Microscope

Keywords

- Advanced light microscopy
- Super resolution microscopy
- Sample preparation for light microscopy
- Live cell imaging
- In vivo imaging
- Confocal imaging
- STED
- Photo localization microscopy
- Multi labelling imaging
- FLIM
- FRET
- FCS, FCCS
- Spectral Un-mixing
- Advanced data analysis and quantitation
- SD-TIRF Microscopy

Networks

German BioImaging-Society for Microscopy and Image Analysis (GerBI-GMB)
https://www.gerbi-gmb.de/

Hamburg Microscopy network
https://microscopy-hamburg.de

Users per annum

Internal Users: 250
External Users in total: 20
External Users: 10
External Users in the EU: 8
External Users outside of EU: 2