

Our Mission

Bioimaging provides the means to place genomic and proteomic information in a cellular or tissue context. The **BioVis Platform** provides a unique combination of technology and know-how for multimodal biological visualization at the tissue, cell, and sub-cellular levels, including supporting analytical and preparative technologies.

We provide access to analytical techniques covering light and electron microscopy, as well as flow cytometry. We offer advice regarding methods and visualization-related problems as well as fee-based access to state-of-the-art instruments.

We aim to help researchers coming from academic and non-academic areas to cover various perspectives and scales of visualization that have to be addressed during a research project.

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For more information please
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www.biovis.uu.se

Uppsala University
Platform for
Biological Visualization



Light Microscopy

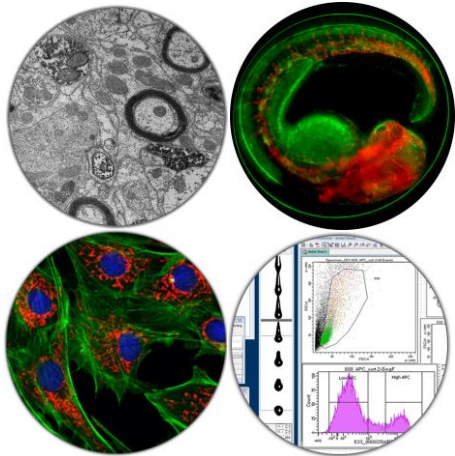
Brightfield & Fluorescence
SlideScanner
Confocal
Multiphoton
Superresolution (SIM/STED)

Flow Cytometry

Flow Cytometry
Cell Sorting

Electron Microscopy

Transmission Electron
Sample Preparation Lab



From centimeter to picometer in a flow

The BioVis Platform allows you to analyze your cell and tissue sample via different techniques.

The Light microscopy and Electron microscopy node covers Imaging in the scale of cm to pm to let you visualize samples in 2, 3 or even 4 dimension (x,y,z and time)

The Flow Cytometry node combines Flow Cytometry and Cell Sorting to analyze, isolate and purify your cells of interest for downstream application like cell culture, sequencing and more.

. **Zeiss LSM710 SIM** Superresolution / Confocal (λ 405, 488, 561, 633). Structured Illumination Microscopy with resolution down to 100 nm (XY)

. **Abberior STEDYCON** Superresolution / Confocal (λ 405, 488, 561, 633, STED: 775), Stimulated Emission Depletion Microscopy with resolution down to 40 nm (XY)

. **Leica SP8 DIVE**: Confocal/ Multiphoton microscopy for deep tissue and intravital Microscopy (λ 488, 562, 633, 2PM Laser: 680-1300, 1045), resonant scanner

. **Zeiss LSM700** confocal microscopy (λ 405, 488, 561, 633), heating module available for Live Cell Imaging

. **Zeiss Axioimager** Brightfield and Fluorescence

. **TEM FEI Tecnai** Electron Microscope incl. Sample Preparation Laboratory

. Monthly courses

Image J

Huygens (Deconvolution)

Instrument intros

. Annual courses

Methods for Cell Analysis (MCA)

Introduction to Image Analysis Softwares

. **Zeiss SlideScanner** Brightfield and Fluorescence capacity for 100 slides

. **BD Fortessa** analytical Flow Cytometry (λ 355, 405, 488, 561, 638)

. **BEC Cytoflex S** analytical Flow Cytometry (λ 405, 488, 561, 638), 96 well plate reader

. **BD FACS Aria III** Flow Cytometry & Cell Sorting (λ 405, 488, 561, 633), sort: tubes & plates

. **BD FACS Melody** Flow Cytometry & Cell Sorting (λ 405, 488, 561), sort: tubes & plates

. **Workstations Flow** Kaluza, DiVa, ModFit, IDEAS

. **Workstations Imaging** Imaris, Huygens, Image J

Services available at BioVis