

Licensing

PER USER

- Cloud solution (Microsoft Azure)
- Get access to a powerful PC
- Windows, MAC, or Linux client (even at home)
- Annual license
- Access to your cloud storage (e. g. OneDrive, GoogleDrive)

PER DEVICE

- Local installation on your PC
- Windows and MacOS supported (GPU recommended)
- Unlimited local users
- Annual or perpetual license
- Access to your local or cloud storage (e. g. OneDrive, GoogleDrive)

Features

DATA FORMATS

- Handle any imaging modality providing pixels or voxels: CT, MRI, PET, SPECT, US, FMT, BLI
- Multimodal data
- Large data sets

IMAGE PROCESSING

- Filtering
- Image fusion
- Feature map generation

SEGMENTATION

- 2D and 3D operations
- Atlas-based workflows

ANALYSIS AND QUANTIFICATION

- Measure distances (2D, 3D)
- Region of interest quantification
- Batch quantification
- Bone parameters
- Parametric maps

VISUALIZATION

- Multimodal views in 2D (axial, coronal, sagittal) and 3D
- Interactive windowing
- 3D Iso, MIP, and volume rendering
- Video generation

Contact

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[Imalytics Preclinical \(YouTube\)](#)

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Imalytics Preclinical

Software for
biomedical image analysis



Purpose

Imalytics Preclinical is a software for fast interactive segmentation, reconstruction, 3D visualization, and analysis of biomedical image data sets with a user-friendly interface. It supports 3D, 4D, and 5D image data from any modality if the file format is supported. It has been used to analyze (multimodal) data sets from CT, PET, SPECT, MRI, US, FLT, and BLT.

Advantages

FAST INTERACTIVE WORKFLOW

Imalytics Preclinical uses an optimized GPU architecture for faster processing of large data sets. Perform 3D segmentations in REAL TIME!

EASY TO USE INTERFACE

Intuitive and easy to learn with simple workflows and tutorials, no prior knowledge required. Users quickly learn how to use the software after just a few hours.

TUTORIALS

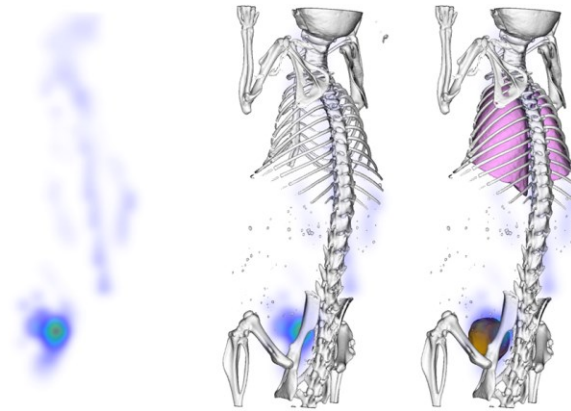
Imalytics Preclinical is installed with more than 25 tutorials for various applications. The tutorials are provided as videos with an example data set. This allows the user to practice with the same data set.

WORLD-WIDE ACCESS

Based on Microsoft Azure, our Imalytics Preclinical can be used in the cloud from any computer, making it easy to collaborate and work remotely. Easy to manage and secure!

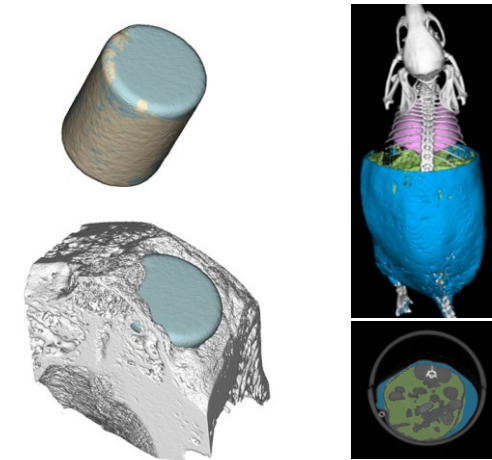
Applications

MULTIMODAL IMAGING



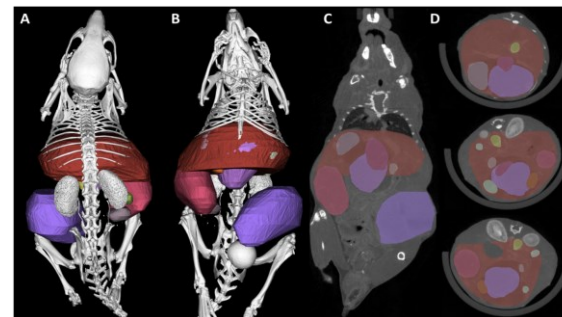
CT or MR-based organ segmentation allows quantification of fluorescence, bioluminescence, PET, or SPECT signals in organs of interest such as the urinary bladder, heart, kidneys, liver, or existing tumor and metastases.

BONE AND FAT ANALYSES



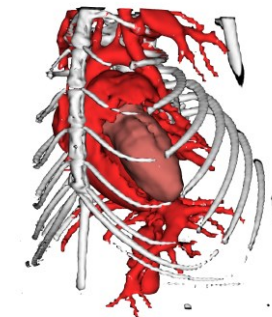
CT data can be used for in vivo tracking of tissue implant resorption and calcifications. A single CT scan can be used to automatically segment adipose tissue and to distinguish visceral (green) from subcutaneous (blue) fat.

ONCOLOGY: TUMOR SEGMENTATION



Cancer research is a main application area of the Imalytics Preclinical. The software can detect tumors and metastases, visualize their exact localization and extent in 2D and 3D, and determine their volume and diameter.

CARDIAC IMAGING



Imalytics Preclinical supports image-based assessment (e.g., using a gated μ CT scan) of the vascular system such as visualization of changes in blood vessels or calculation of the left ventricular ejection fraction.