



HiD 3D Reconstruction

Digital 3D reconstruction of anatomical tissue from histological slide images – in breathtaking image quality.

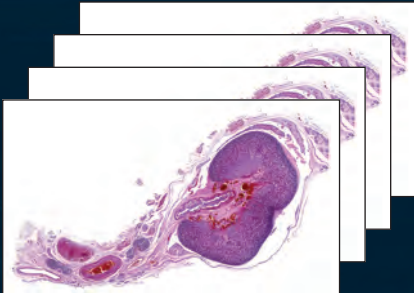
Applications

- Education in anatomy and physiology
- Embryological and oncological research
- Digital Pathology
- Impressive visualization for publications

Digital Workflow

We offer a modular approach depending on your data and requirements to create your individual 3D reconstruction.

- Slice Extraction
- Correction of Staining Variances
- Rigid and Non-Rigid Slice Alignment
- 3-D Volumetric Reconstruction
- Structure Segmentation
- Advanced Visualization



Original histological slices from a fetal kidney dataset.



Virtual coronal (left) and sagittal (right) MPR (multiplanar reformatting) visualizations perpendicular to the slice stack after 3D reconstruction.

HiD Histodigital – Your Reconstruction Project

Data

- Histology slice images (individualized .tif, .png, etc., or OpenSlide format)
- Good quality slices and image acquisition for relevant parts + sorted correctly

3D Reconstruction

- Inspection of data set and low-resolution reconstruction to assess potential
- Full reconstruction of target object in higher resolution*

Results & Visualization

- Reconstructed individual slices and volume images
- Volume renderings of main features using LUTs
- Advanced visualizations based on segmentations (optional)

*Potential restrictions apply depending on individual project.

Contact

HistoDigital (HiD) UG
(haftungsbeschränkt)

Am Weichselgarten 7
91058 Erlangen
Germany

+49 (0)160 / 911 89 104
info@histodigital.de
www.histodigital.de