

Integration Tools of the Digital Pathology System into the Research Biobank Management Solution

University Medical Center Göttingen

Medical Informatics

Göttingen, Germany

L Svanadze, T Franke, K Buckow, E Bahn, O Rienhoff



German Competence Network Multiple Sclerosis (KKNMS)

Multiple Sclerosis Brain Bank IT infrastructure

- Modules of the DPS were evaluated and key aspects were revealed

Image Server

- Support of infrastructure for big data storage
- Separated high-performance server hardware or cloud-based service provided on the market
- Outstanding speed of virtual slide image access

Image Database

- Microsoft SQL Server 2008 Express/Standard Edition
- Separated database for the microscope images
- Save annotations in conjunction with the images
- Microscope images registered to the database will be connected to the specimen via Sample ID

Web Viewer

- Provision of viewing of metadata, multiple image viewing, navigation, and annotation tools in conjunction with images
- Working with the most common web browsers without any plug-ins and installation required
- Vendor neutral viewer supporting with different file formats
- Fast response time of image loading in the web viewer

Integration method

- An effective model of integration was defined for the DPS

