SoftDigitalPathology™

Intuitive and comprehensive Image Management System for Digital Pathology built for pathologists and researchers. Scanner agnostic solution provides the ability to connect to several scanners with wide variety of whole slide image (WSI) file formats, with multiple scanners connected at the same time, and with manual uploading slide images supported as well. The solution supports the use of local network and cloud-based Slide Image Storage (SIS). Management of image access (including different access types - Hot Storage, Cool Storage, etc.) has been provided. Slide image retention period and rules can be configured to fit the storage capacity and to fulfil regulatory requirements.

SoftDigitalPathology solution streamlines operations for Digital Pathology management and operations in research laboratories and for education.

Soft Digital Pathology is not intended for use in the treatment or diagnosis of patients. Use for non-diagnostic purposes only.

Feature: Scanner-Agnostic integration with Slide Scanners.
Benefit: SCC's platform is designed to be Slide Scanner agnostic, with seamless integration with Slide Scanners used in your organization, and with corresponding various image format support. Slide images are organized into case specific folders using SoftPathDx® barcode information, and both automatic and manual processes of adding whole slide images (WSIs) to case folders are supported. The solution provides the capability to work with multiple slide image formats seamlessly, even within an individual case. Opening the Viewer in context of the order allows for an easy context-specific view when working on a given case. Statuses of orders within the solution are synchronized with SoftPathDx. Case assignment managed in SoftPathDx is synchronized to SoftDigitalPathology as well, which enables an easy identification of current list of cases to work on.

- **Annotations, measurements, image adjustments, side-by-side viewing, comments**
  The System facilitates adopting image slide brightness, contrast, and color compensation to the user's needs with the ability to store individual preferences. The solution allows marking a region of interest by drawing diverse shapes of annotations and doing precise measurements to the viewed region. Up to four slide viewers can be opened concurrently to provide convenience during slide analysis and better comparison of slide images. The application provides the ability to enter comments on slide and order for handy notes available to pathologists.

- **Slide or case sharing to peer pathologists over a public network**
  With SoftDigitalPathology, the traditional sending of the glass slides between the laboratories is no longer needed. The Solution supports sharing the selected slide or entire case with a peer pathologist located anywhere in the world securely and comfortably. Shared images are anonymized (PHI data are not included) and the user creating the share link decides for how long the slide or the whole case will be available.

- **Conference for interactive collaborations / telepathology**
  The System supports conducting a conference and creating annotations by the pathologist working in SoftDigitalPathology for anyone to attend that event. The solution makes it available to join an interactive conference from any location and different devices, including mobile phones.

- **Integration with AI algorithms for image analyses**
  The solution allows installing AI algorithms and running the analyses on demand. To save laboratory staff time and automate the work of algorithms, SoftDigitalPathology enables the organization of these algorithms in pipelines to run for WSI analysis at the time of image acquisition. Analysis results are available in Slide Viewer at user's convenience, with the capability to display heatmaps over slide images.

Feature: Integration with SoftPathDx and other LIS Systems.
Benefit: The solution is fully integrated with SoftPathDx, which includes order/slide information seamless update, slide scanning progress visibility in SoftPathDx, single sign on in Slide Viewer opened from SoftPathDx, and sending slide snapshots/images to SoftPathDx. SoftDigitalPathology is an open solution available to connect with other LIS Systems. Order and slide information can be received in SoftDigitalPathology, as well as order and status updates. Notifications about scanned slide events can be configured.

Feature: SoftDigitalPathology for non-diagnostic use.
Benefit: SoftDigitalPathology provides extra support in research labs, education and related fields by organizing slide images for research projects, presentations, classes or lectures. In SoftDigitalPathology, you can easily and effectively create image slide collections and share such collections with other individuals. The collections are created with no PHI included, and the function provides an easy way to share scanned slide images for education or research. Images from external sources can be also easily uploaded and added to such collections.
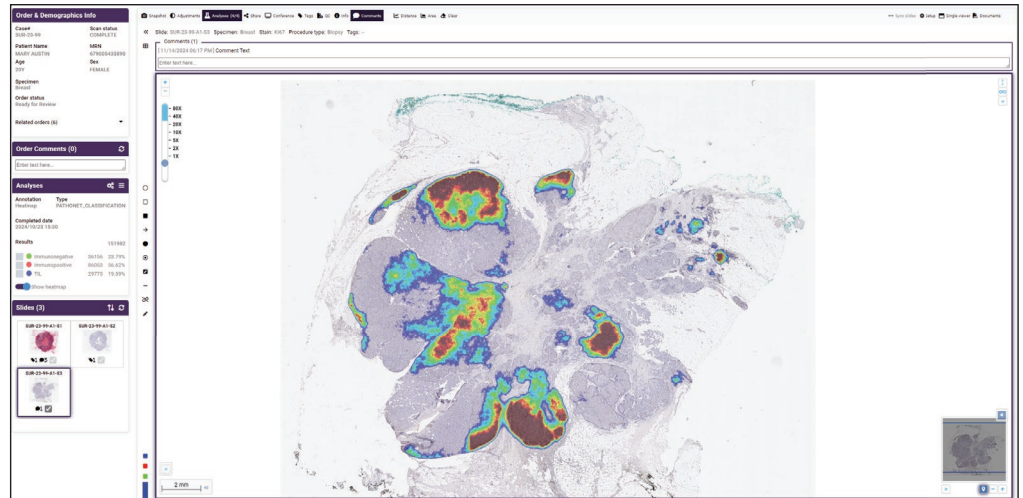
Feature: The latest IT standards.
Benefit: The web solution based on the client-server architecture allows the use of the system with any desktop or mobile device. Thanks to the application of the latest IT standards, it is possible to access the system from multiple workstations simultaneously and securely. Vast configuration possibilities enable the implementation of the system in even the most demanding laboratories, also working with Big Data.
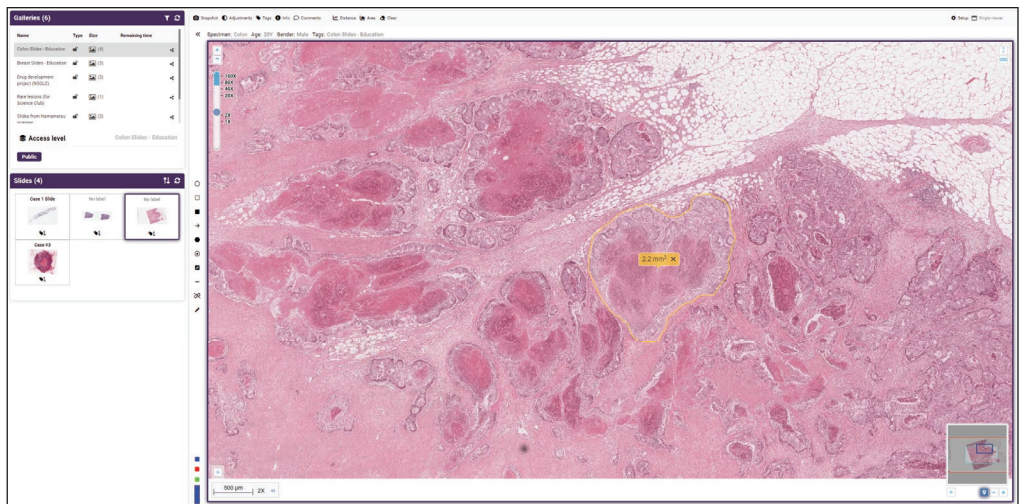
SAMPLE SCREENSHOTS

Slide Viewer with Analysis Results

Slide Viewer displaying results of analysis (identified and classified cells) with heatmap along with slide image displayed in the viewer.
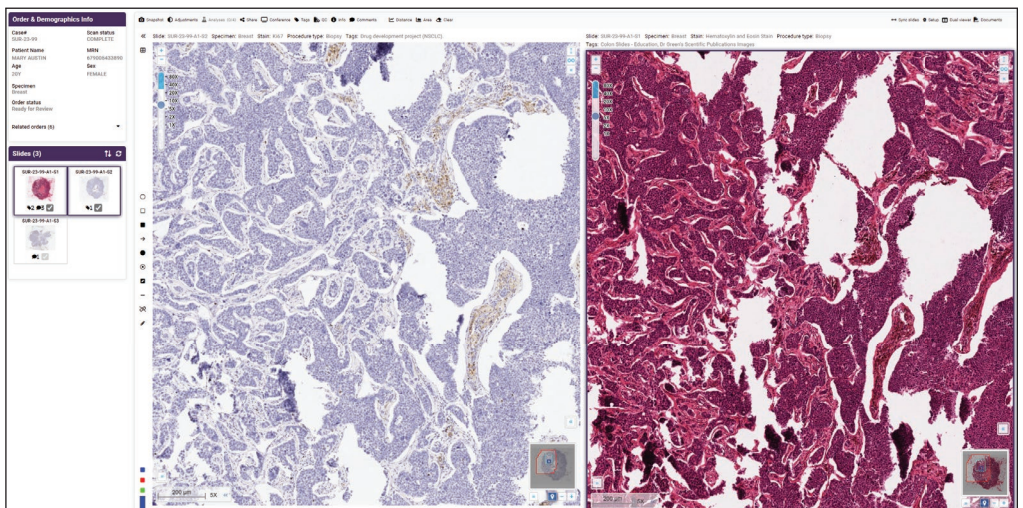

Slide Collection

Slide Collection containing slides from various cases and patients.

Multiple Slide Viewer in SoftDigitalPathology

Multiple slides can be displayed side-by-side, with the ability to synchronize Viewers (performing the same operations on slide – moving, rotating, zooming in/out etc).

SAMPLE SCREENSHOTS

Worklist View in SoftDigitalPathology
Worklist View with the list of assigned cases for diagnosis by the logged user.

Conference in SoftDigitalPathology
Conference screen for started conference with participants joining the conference and conference specific annotation tools.

Mobile Device Access
SoftDigitalPathology enables users to share slides with pathologists anywhere in the world and view them from any devices, including tablets and smartphones.