Digital Image Hub Overview

Descriptions of the features present in the Digital Image Hub

Hosted by the Digital Histology Shared Resource / VUMC

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Logging In to the Digital Image Hub

Username
Enter the username you requested on the DIH Account Request Form

Password
Enter your password. If this is your first time logging in, or your password has recently been reset, enter 1234.

Do Not Click This Email Address!
This email goes to Dublin, Ireland
If you require assistance, email:
digital.histology@vanderbilt.edu

Browse Mode

This is the view when you initially log in

Folder View

Slide View

Quick Functions

Open/Close Panel
Take Snapshot
Add Annotation
Image Analysis
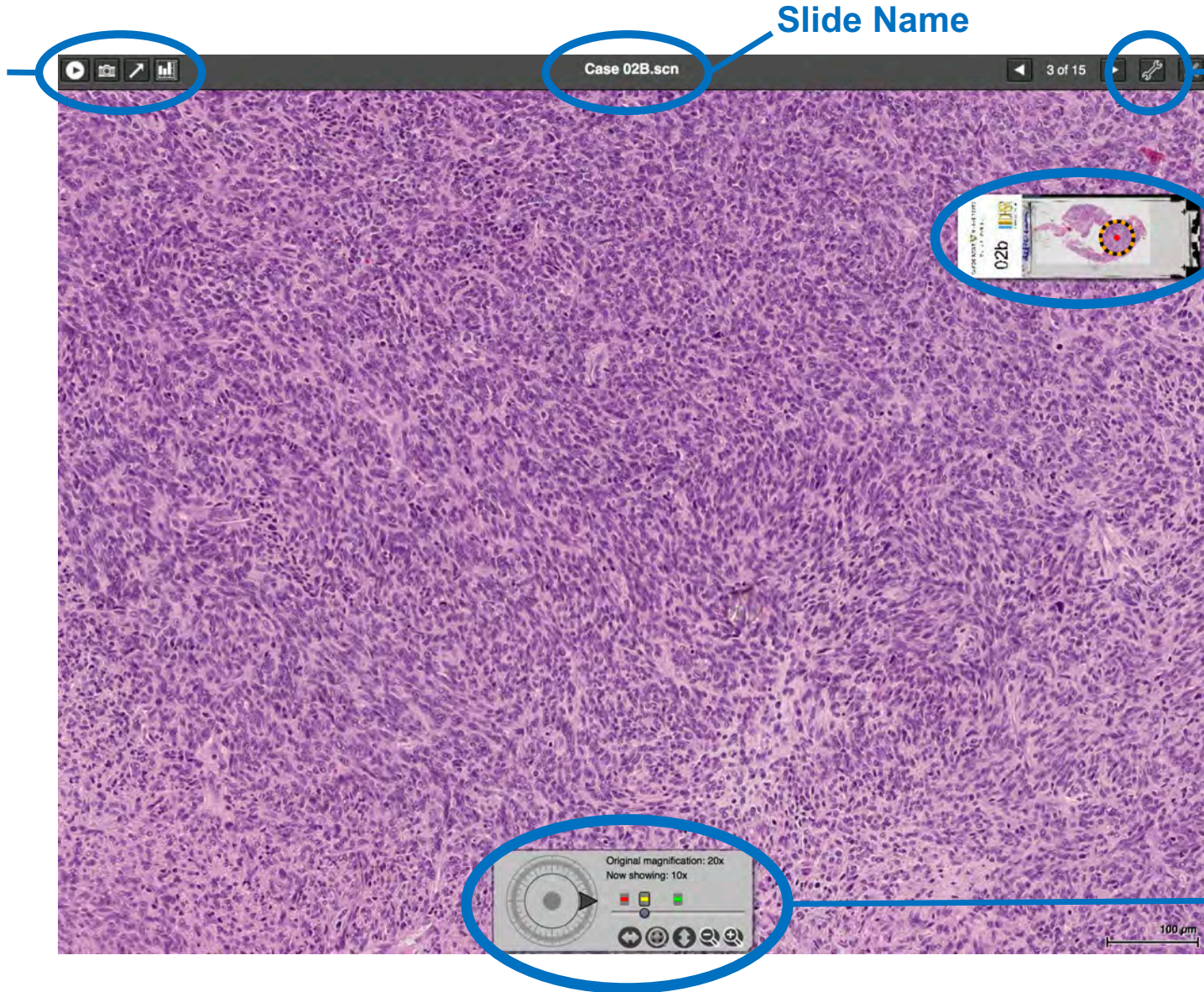
Slide Name

Display Settings

Image overview
Click anywhere inside to immediately navigate to that spot

Original magnification: 20x
Now showing: 10x

Navigation Controls
Rotate, flip, zoom, pan

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Navigation Controls

Dial to Freely Rotate Slide

Original magnification: 40x

Now showing: 0.15x

4X 10X 20X 40X

Click on the objective to jump to that magnification

Joystick to Pan

Flip Slide Horizontal

Fit Slide In Window

Flip Slide Vertical

Zoom Out

Zoom In

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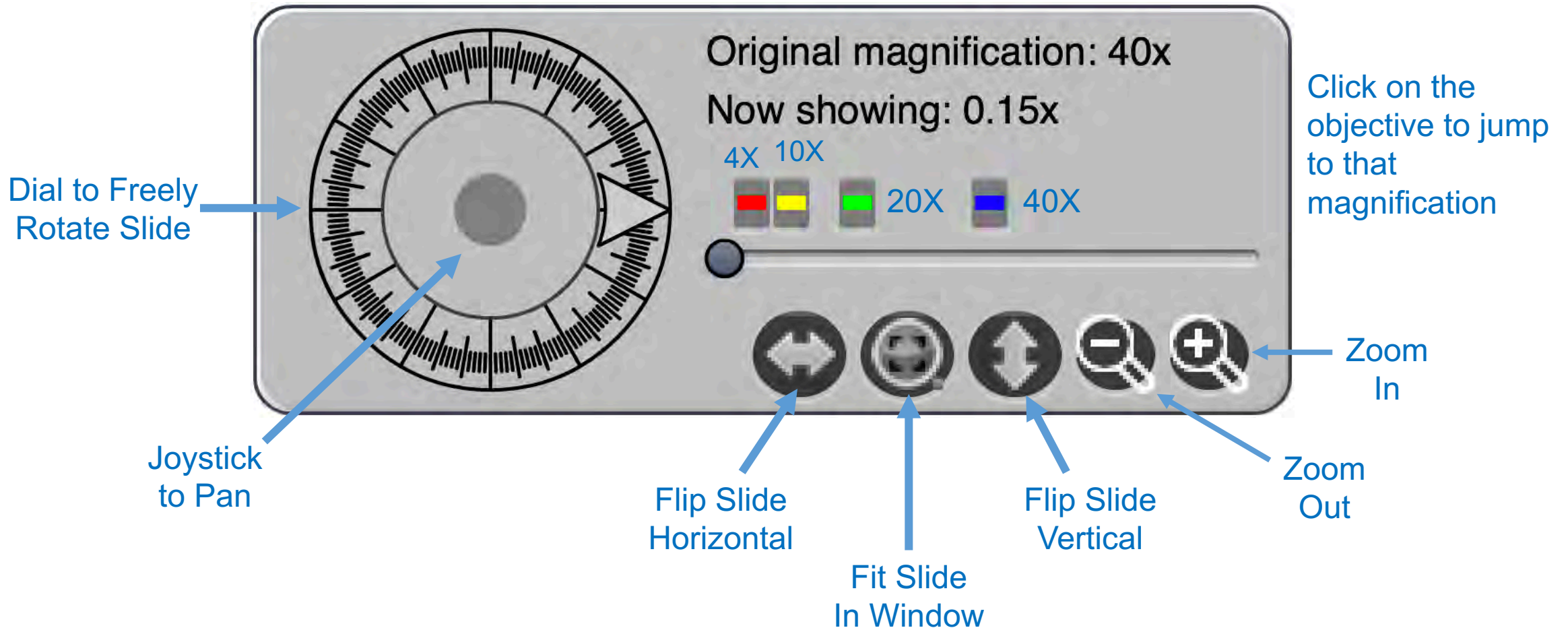
Navigation Controls – Z stacks

Some slides are scanned with multiple focal planes – often found in Cytology slides

(in digital micrographs, this is referred to as a Z-stack)

Z-stack Navigator

SingleChannelRegion

Original magnification: 40x
Now showing: 0.14x
4X   20X   40X

Reset

Each tab represents a different z-plane

Resets the view back to the original z-plane

Joystick to Pan

Dial to Freely Rotate Slide

Flip Slide Horizontal

Fit Slide In Window

Flip Slide Vertical

Zoom Out

Zoom In

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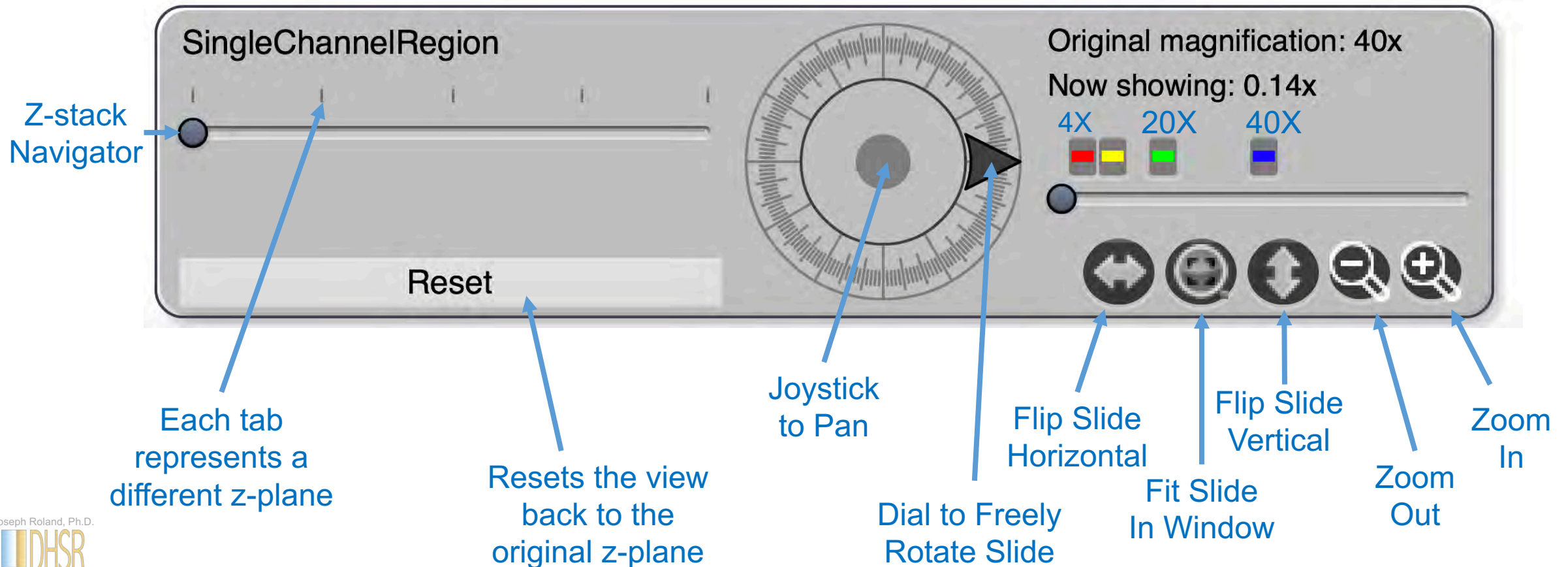
Quick Functions
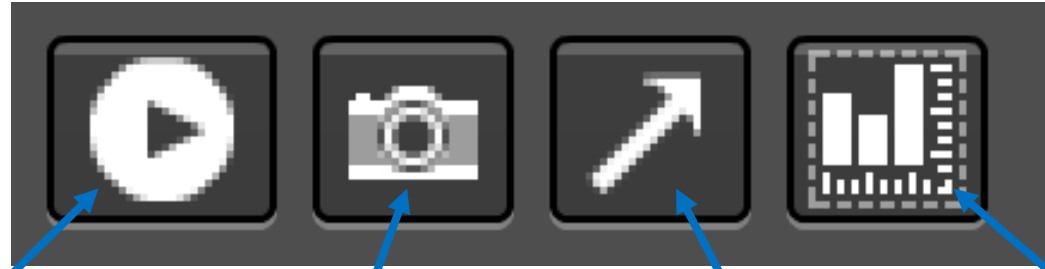
Open/Close Panel

Take Snapshot

Add Annotation

Image Analysis

(If activated)

*Ensure your browser will allow the snapshot window to be created.
These are often blocked by default as they appear like a pop-up.*

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Opening the slide panel

Opening the slide panel allows you to view other slides in the same folder quickly.

Clicking on the thumb tack icon allows you to view multiple slides at the same time.

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Taking a Snapshot 📷

A snapshot gives you three export options:

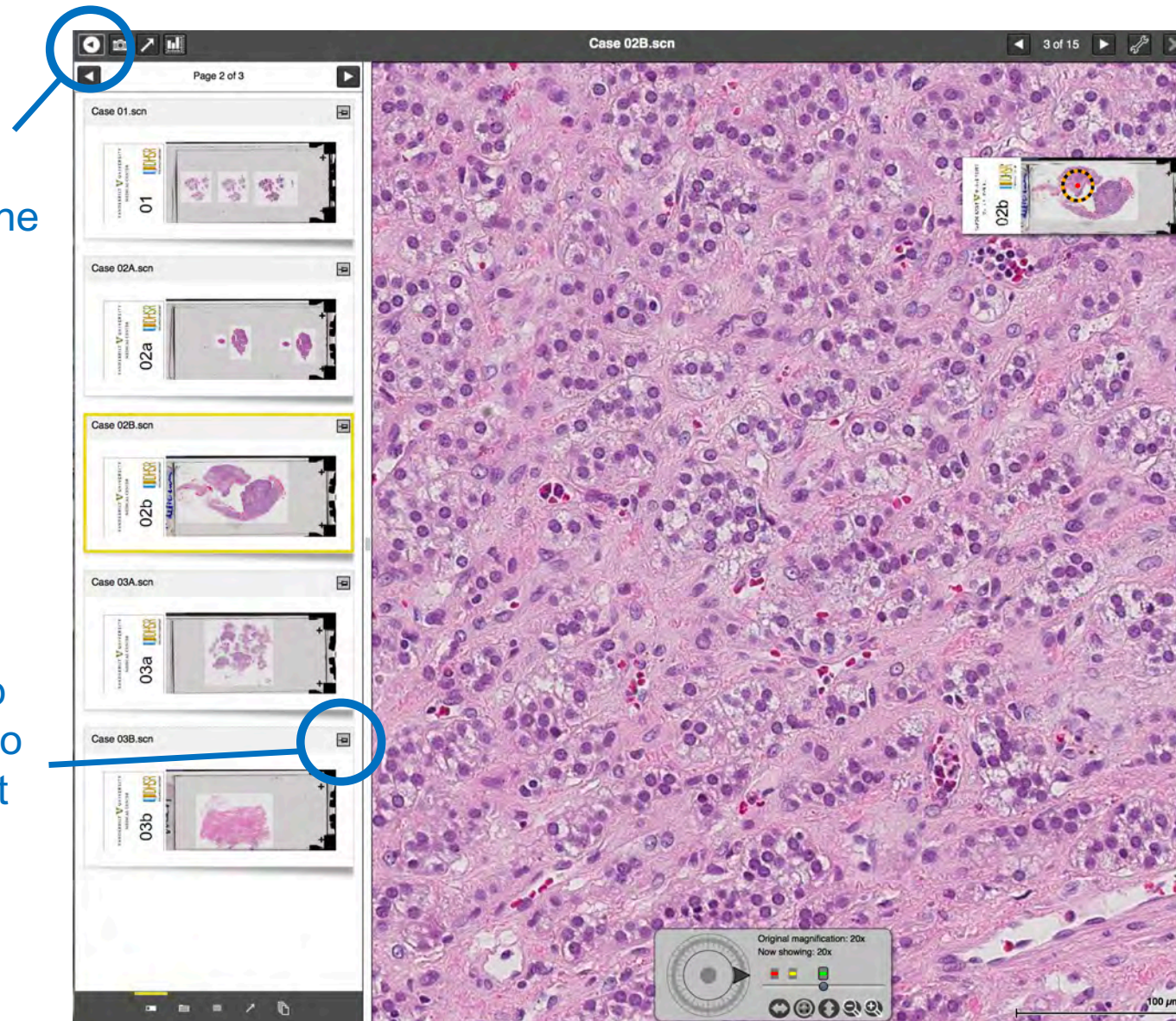**2) The Static Link is a URL to this exact snapshot. Use this to send the link, not the image via email.**

Static link for snapshot: http://ebcdih.mc.vanderbilt.edu/dih/bitmap.php?snapshotId=14719953758357
Dynamic link for opening snapshot in viewer: http://ebcdih.mc.vanderbilt.edu/dih/webViewer.php?snapshotId=14719953758357

1) Right-click or left-click and drag anywhere on the snapshot to download it to your computer.

3) The Dynamic Link is a URL that launches at the snapshot, but allows the recipient to view the entire slide – no account required (although they cannot annotate or take snapshots). This should never be used on slides that contain PPI.
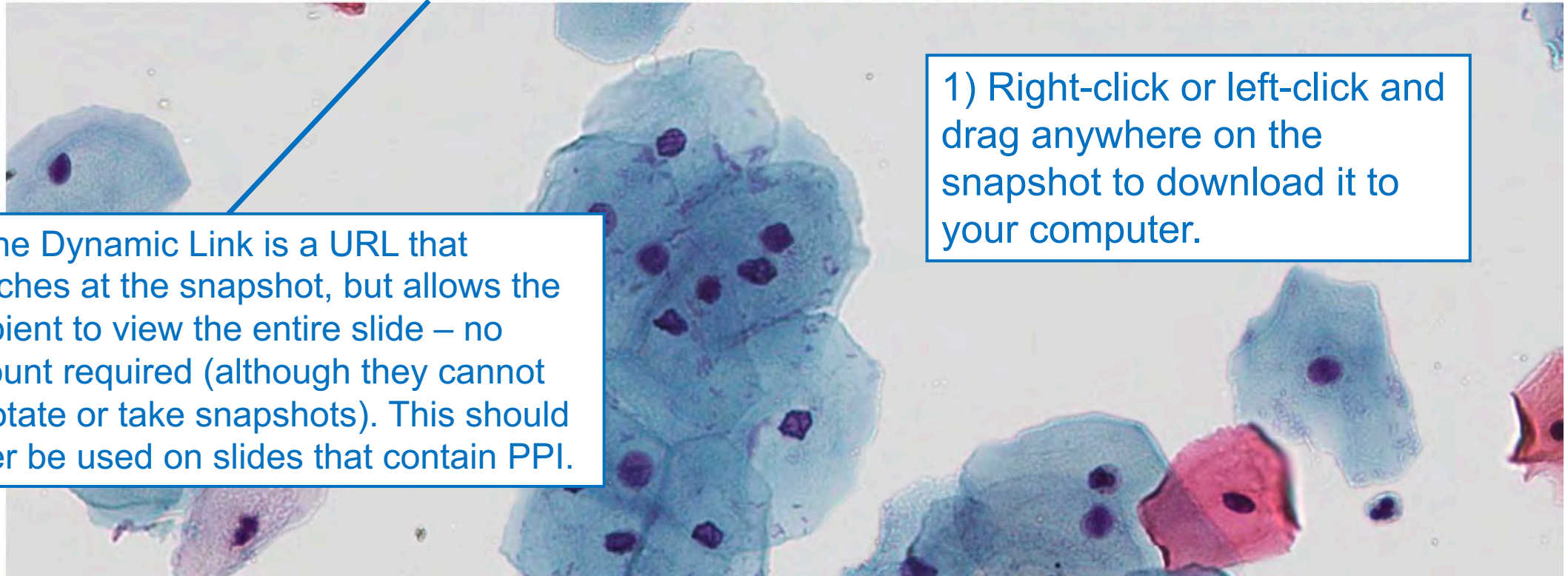
Making an Annotation

See Annotations sections for more information:

Draw Rectangle | Draw Ellipse | Draw Polygon | Draw Arrow | Draw Freehand | Draw Ruler | Drop Thumbtack

Annotation

Drawing Tools:

Toggle Eraser

Annotation Settings:

Select between making a filled or empty shape for the annotation

Measurement:

Save   Cancel

Choose a color for the annotation

Make the annotation invisible until mouseover

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Display Settings

Annotations

Adding, editing, and deleting annotations

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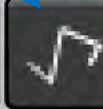
Making an Annotation

Click the arrow button in the quick functions list found at the top left of an open slide screen

Draw Rectangle · Draw Ellipse · Draw Polygon · Draw Arrow · Draw Freehand · Draw Ruler · Drop Thumbtack

Annotation

Drawing Tools:

Toggle Eraser

Annotation Settings:

Measurement:
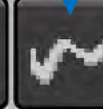
Save   Cancel

Select between making a filled or empty shape for the annotation

Choose a color for the annotation

Make the annotation invisible until mouseover

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Rectangle Annotation

Draw Rectangle Tool

Area encompassed by of the annotation

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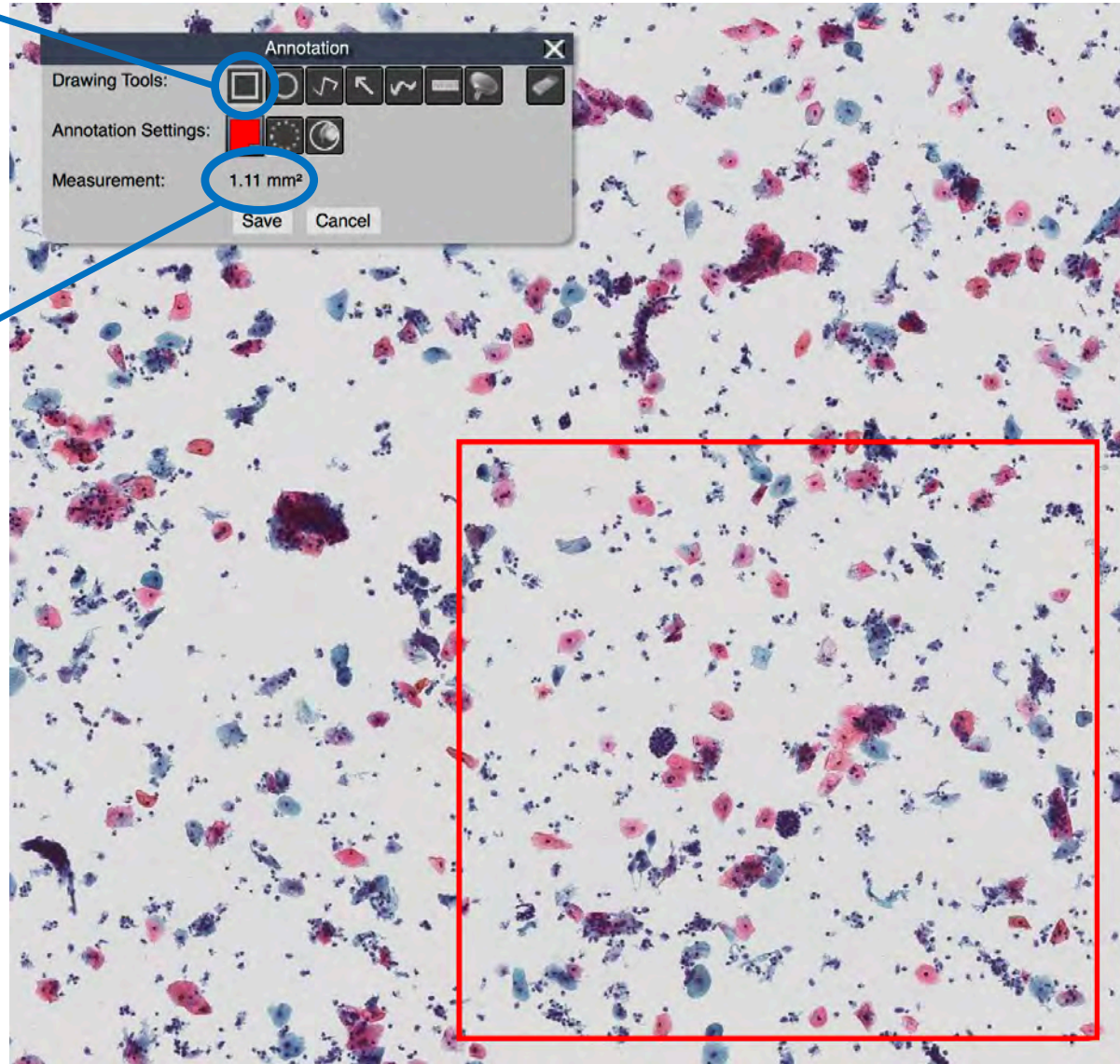
Rectangle Annotation

Using the solid fill option
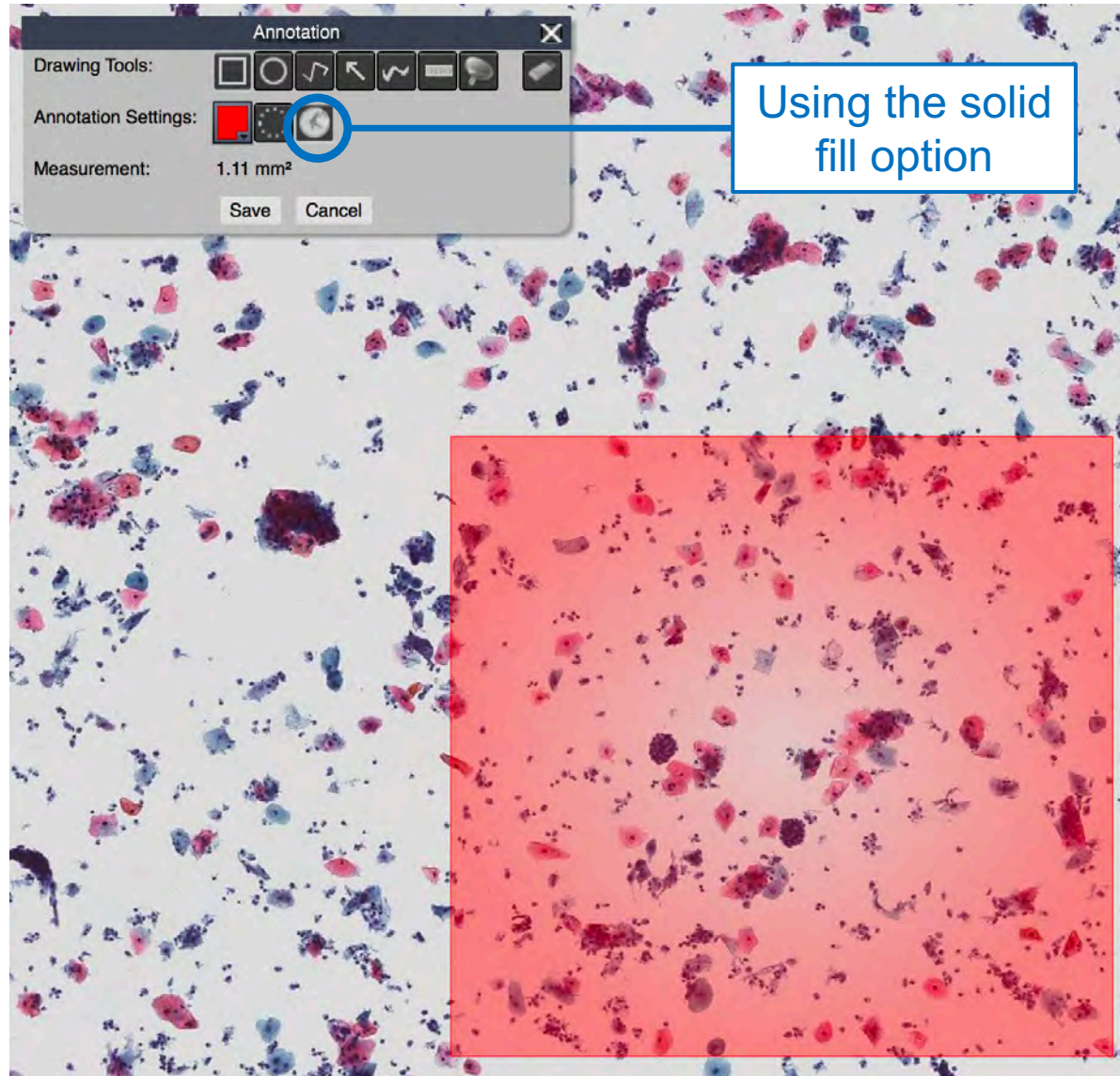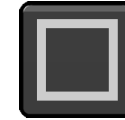
Ellipse Annotation

Draw Ellipse Tool

Area encompassed by of the annotation

Annotation

Drawing Tools:

Annotation Settings:

Measurement: 248,025.00 μm^2

Save   Cancel

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Ellipse Annotation
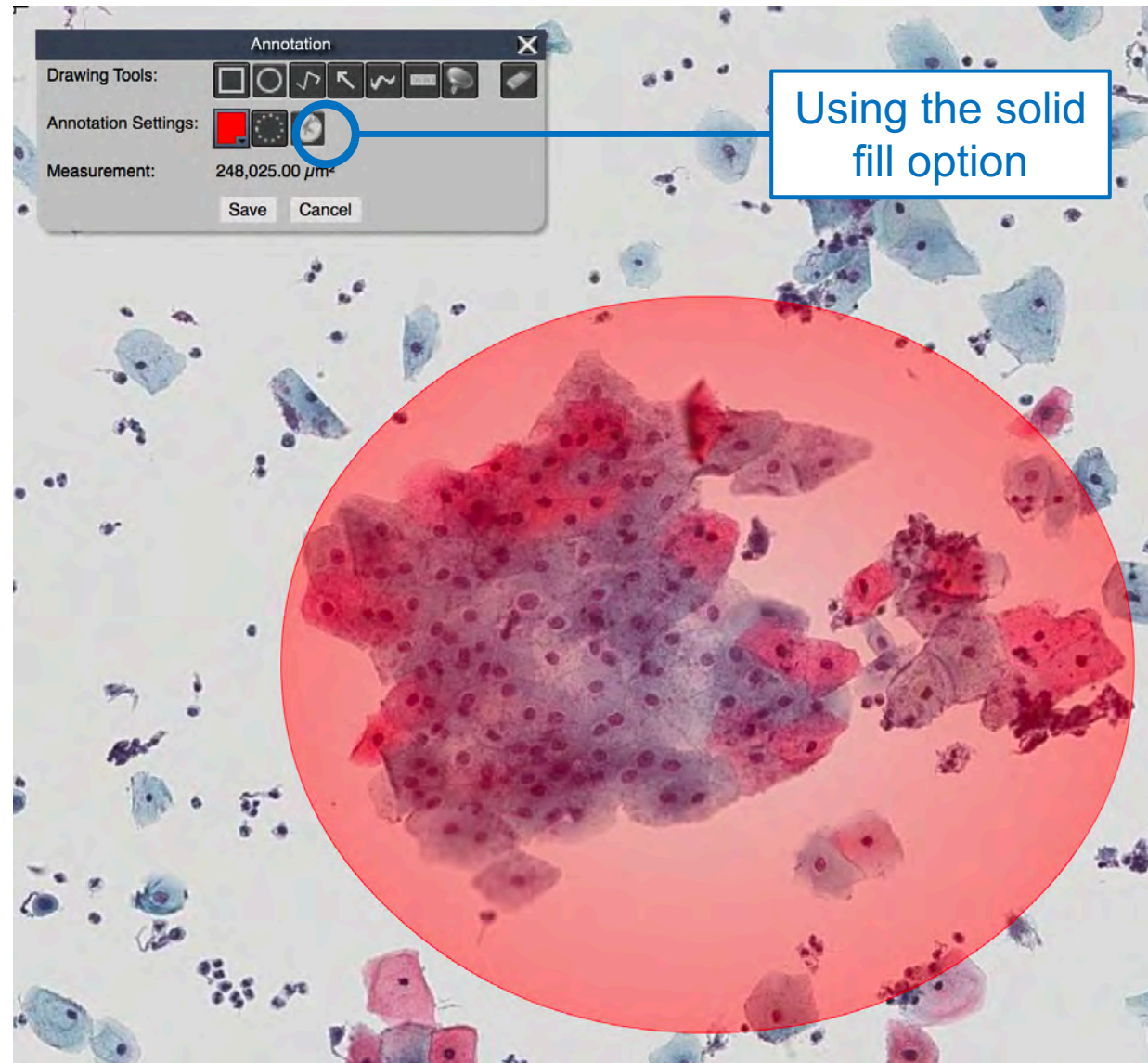
Polygon Annotation

Draw Polygon Tool

Area encompassed by of the annotation

Annotation

Drawing Tools:

Annotation Settings:

Measurement: 231,803.00 μm²

Save   Cancel
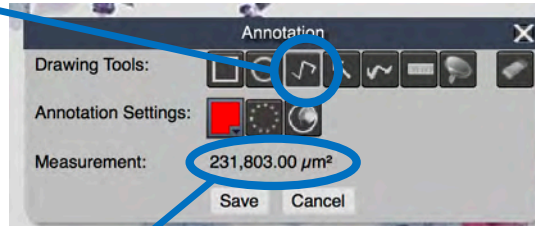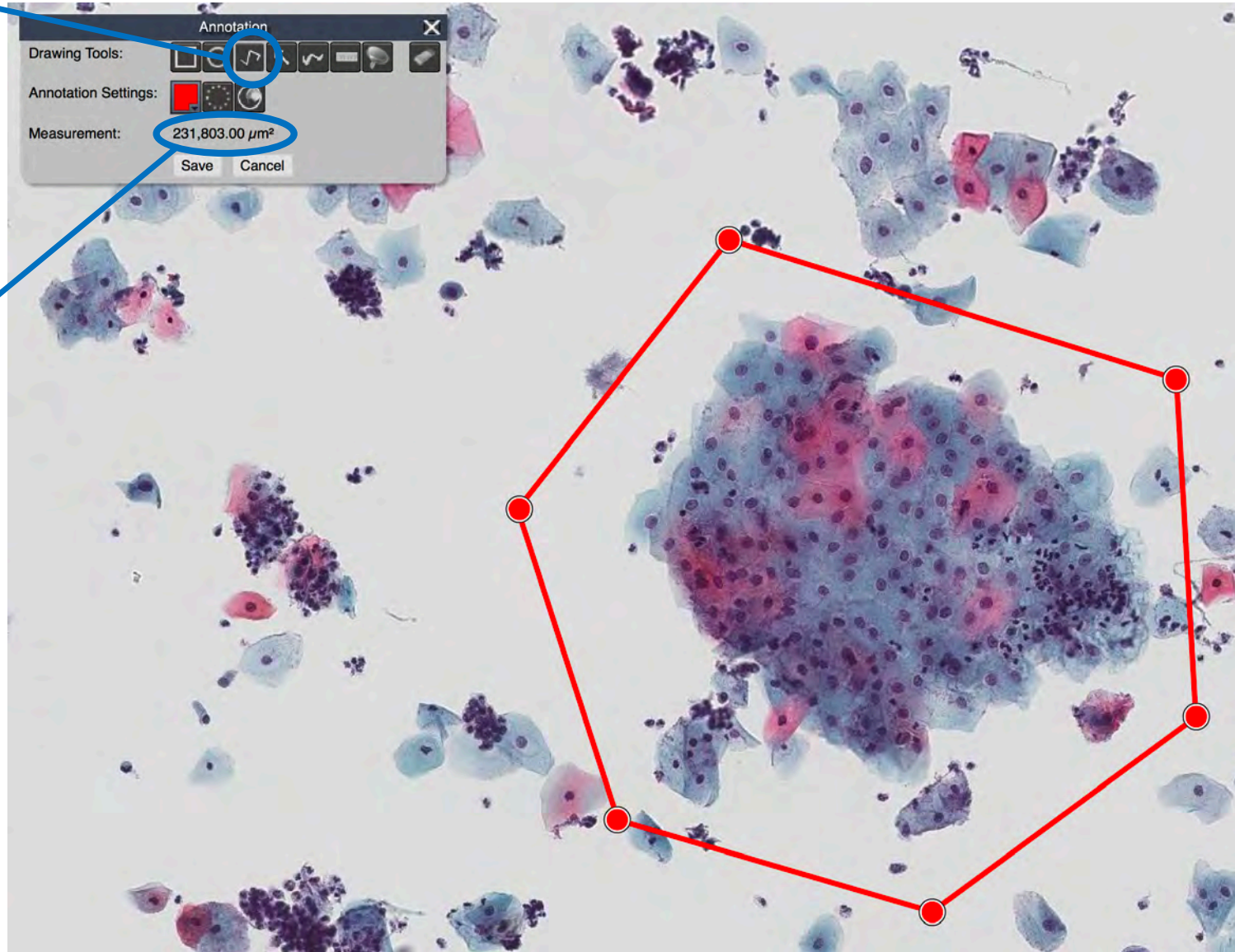
Freehand Annotation

Draw Freehand Tool

Annotation
Drawing Tools:
Annotation Settings:
Measurement: 668,693.75 μm²
Save   Cancel
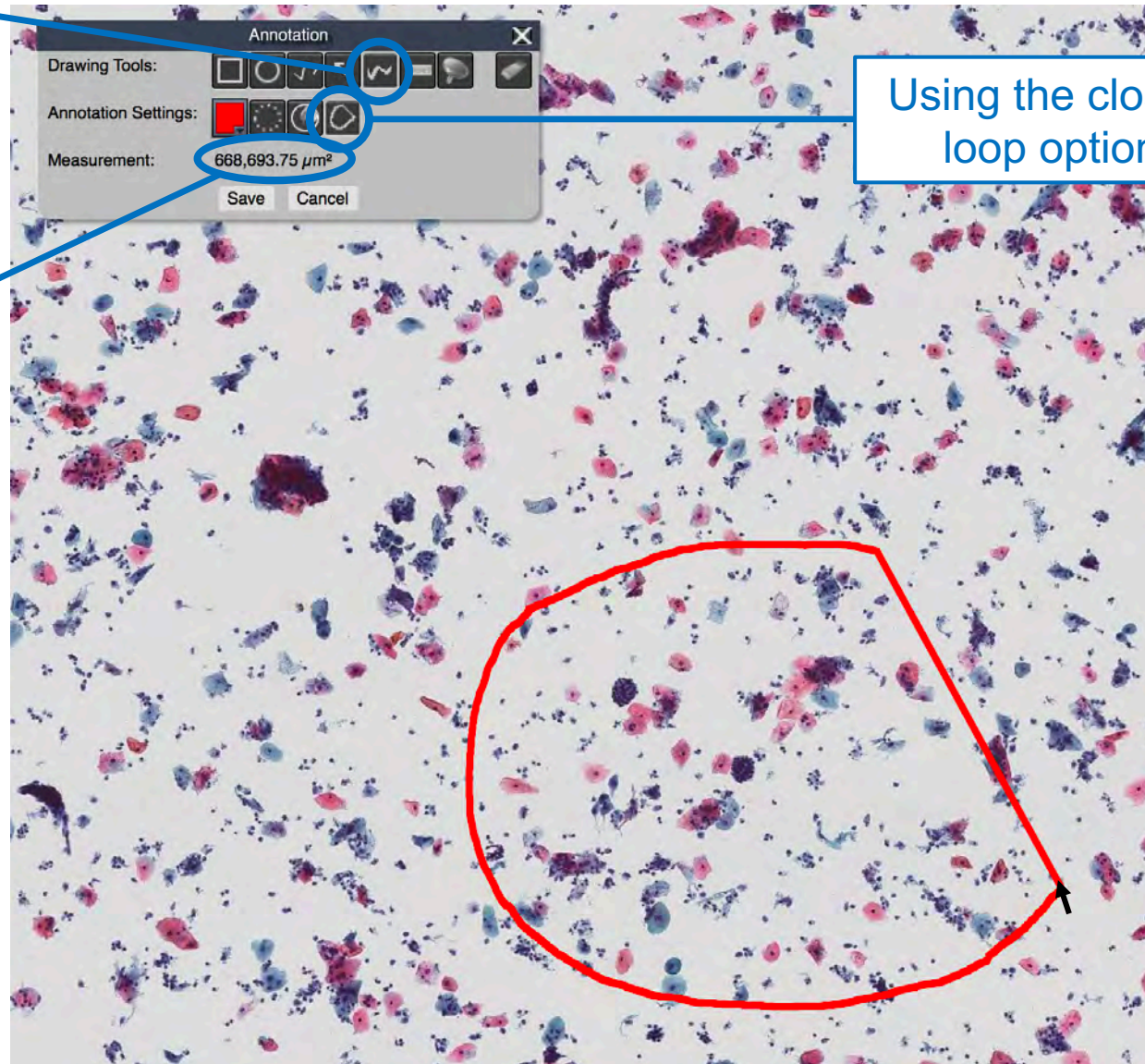
Using the closed loop option

Area encompassed by of the annotation

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Ruler Annotation

Ruler Tool

Measured Length

Annotation

Drawing Tools:

Annotation Settings:

Measurement: 486.39 μm

Save   Cancel

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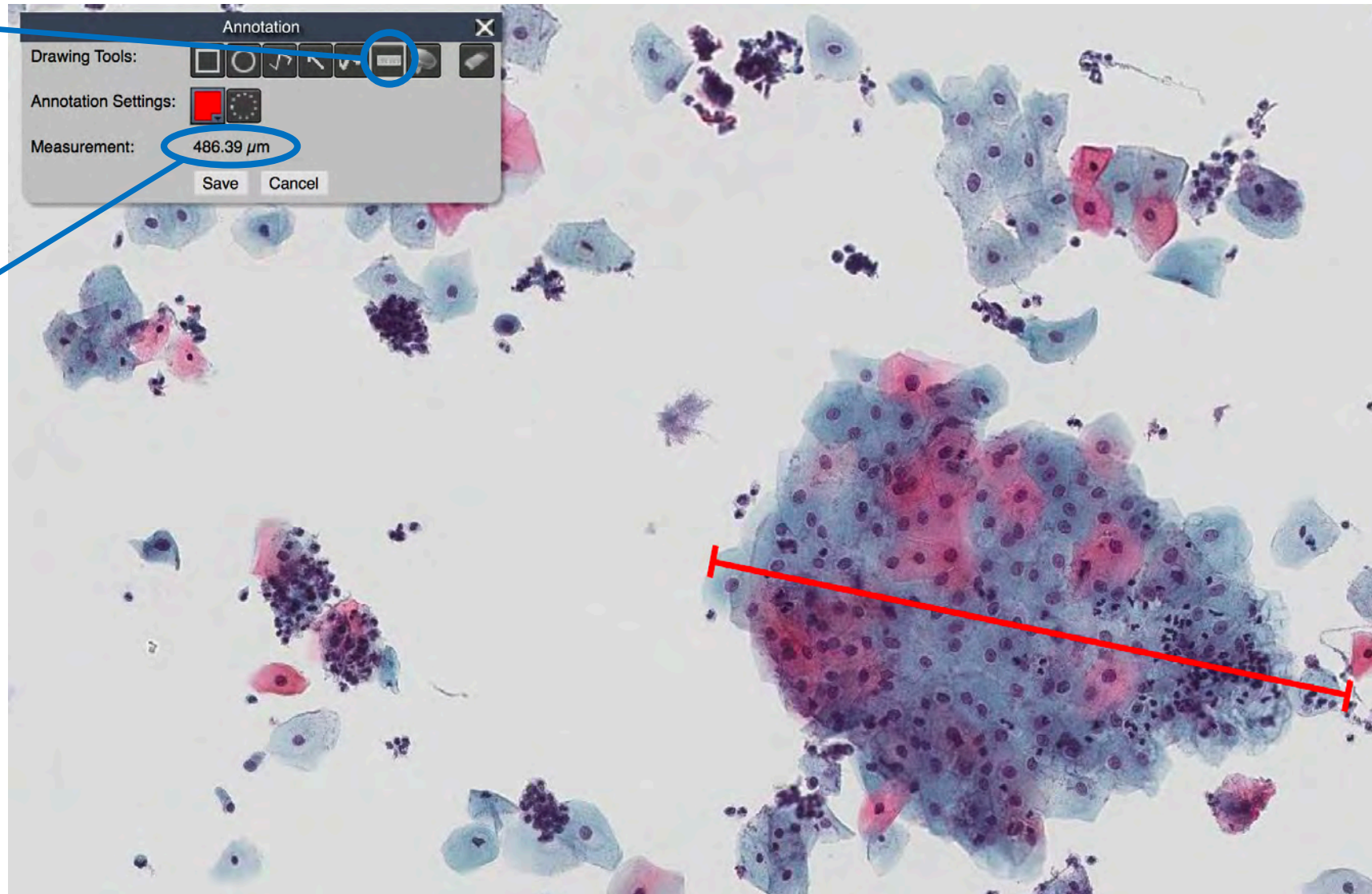
Creating a Conference

Selecting slides to use in a virtual conference

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Creating a Conference

While in the Browse tab, select the slides you wish to include in your conference by checking the box to the left of the slide

Once selected, click the conference icon at the bottom of the window

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Creating a Conference

Location: Conference > Create

Browse | Search | **Conference**

Conferencing Wizard

Please choose one of the following options:

◉ OPTION 1: Create a new conference

Enter a conference name: `Path Conference`

Attendees must authenticate using DIH? ☑

○ OPTION 2: Add images to an existing Conference

Choose an existing conferece: `Teaching set 1 ▾`

Cancel | Submit

Choose Option 1 to create a new conference.
Give the new conference a unique name.
DIH authentication ensures that participants have a DIH account. Otherwise the conference is considered public.

Choose Option 2 to add the selected slides to an existing conference – useful when you need to collect slides from multiple folders

Creating a Conference

Click the green arrow to launch the conference

Location: Conference > Create

| Browse | Search | **Conference** |

Start conference	**Conference Name**	**Date Created**	**Actions**
▶	Path Conference	22-08-2016 18:20:23	
▶	Teaching set 1	04-03-2016 13:56:45	
▶	Lecture 1	02-03-2016 16:42:07	
▶	tma conf.	14-03-2013 10:27:46	

Click the link icon to access conference's URL. This URL can be sent to other participants via email.

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Creating a Conference

Location: Conference

Browse   Search

Conference : Path Conference

Please copy the URL below and distribute to those who need it.

http://ebcdih.mc.vanderbilt.edu/dih/conference_register.php?id=OTBoZ2o2MjN2MWZ5

Send url as e-mail

Use the provided URL to give others access to the conference

Back

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Using the search function

Metadata-directed searching

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Search Mode

You can use the search tab to look up specific slides or types of slides

You can search for specific slides based on the slide name (accession number), date it was scanned, etc.

Typically, you will want to choose the "Contains" option from the Operator pull-down tabs. This will help ensure you get all slides that fit your criteria.

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Using the Search Function

You can use the search tab to look up specific types of cases from all previous unknowns

From the pull down menu, you can search for a specific diagnosis, gender, tissue type etc…

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Using the Search Function

Select "equals" to see all possible tissue/organ types

Example: If you want to see what tissue/organ sources are in the system… scroll through the options below and select

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Using the Search Function

Select "contains" to search a specific organ

Example for "lung"
A case could have been entered as "middle lung lobe" so a general "lung" search would identify all lung cases

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