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PATHOLOGY LEARNING CENTRE

How to View Scanned Slides

The Pathology Learning Centre (PLC) currently operates an Olympus VS120 slide scanner. The VS120 can output various file formats. The most commonly used is the Virtual Slide Image (VSI) file format. These images can be viewed either online on UCT's Olympus virtual microscope or locally on your own computer.

To View Online

To view the images online, one must login to UCT's Olympus virtual microscope. To do this, one must have a virtual microscope account. If you do not have an account, one will be created if you request 'Online Hosting' on the 'PLC Scan Request Form'.

To Login to the Virtual Microscope

1. Click the link to go to the UCT Olympus virtual microscope.



- 2. In the 'User name' field put your account username.
- 3. In the 'Password' field put your account password.
- 4. In the 'Database' tab, select 'Olympus_Conferences'.
- 5. Click the 'Log in' button.

To View Locally

To view and annotate VSI files locally, additional software is required. There are multiple software packages which open VSI files. The two most popular are OlyVIA and QuPath. OlyVIA was built by Olympus and is thus recommended. QuPath is a more general purpose whole slide imaging software. The software you will require will depend on your protocol, imaging needs, operating system etc.

Click Link Below to Begin Download

<u>OlyVIA</u>

<u>QuPath</u>

How to open with OlyVIA

1. Download and install OlyVIA. Once OlyVIA is installed on your PC open the folder containing your scanned images.

File Home Share View	Manage C:\Users\VS120\E	Desktop\example			-	
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	Name	Туре	Size			
Cuick access	😢 my_image.vsi	OLYMPUS OlyVIA - Virtual Slide Image	2 544 KB			
This PC		File folder				
3D Objects						
Desktop						
Documents						

2. For each image there should be a .vsi file and an accompanying folder of the same name. Select the .vsi and double click to open (ignore the companying folder). DO NOT DELETE the folder which accompanies the .vsi file.

Name	Туре
🦉 my_image.vsi	OLYMPUS OlyVIA - Virtual Slide Image
	File folder

How to open with QuPath

1. Download and install QuPath. Open Qupath. In the top left corner select 'File' then select 'Open'.

QuPath		
File Edit Tools Project Recent projects	View Objects	TMA Measure Automate Analyze Classify Extensions Help
Open	Ctrl+O	Workflow
Open URI	Ctrl+Shift+O	Add images
Reload data	Ctrl+R	
Save As	Ctrl+Shift+S	
Save	Ctrl+S	
Export images	,	
Export snapshot	•	
Import objects from fil	e	
Export objects as GeoJ	SON	
TMA data	•	
Quit		

2. Then navigate to the folder containing your image. Select the .vsi and click 'Open' (ignore the companying folder).

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		2024/04/15 10:20	File folder			
File	e name: my_image.vsi			~	All Files (*.*)	~
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Two images should appear. The images will be; [your image name] – overview and [your image name] – magnification. Select [your image name] – magnification and click 'Open selected'

Open image	image.vsi - overview	,
my	_image.vsi - 40x	
Attribute	Value	
Full Path	file:/C:/Users/VS120/Desktop/example/my_image.vsi	ſ
Server Type	Bio-Formats	
Image index	1	
Width	44914 px	
Height	41879 px	
Dimensions (CZT)	3 x 1 x 1	
Pixel Width	0.1723 μm	
Search:	Open selected Ca	ancel

4. Then set image type. This will depend on the stain used in your image. For most images 'Brightfield H&E' will be the correct type. Select the most suitable option then click 'Apply'.

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Set image type What type of imag	e is this?	;	×	
Brightfield H&E	Brightfield H-DAB	Brightfield Other	Sec. 1	
Fluorescence	Other	Unspecified		
Always prompt me t	to set type Can	cel Apply	LA CAL	