Zeiss Axioscan 7– Quick hands on

1. Turning on
2. Loading slides
3. Selecting a profile and performing a pre-scan
4. Using the sample detection wizard

    - Improving/changing sample detection method
    - Improving/changing focus strategy by adding/removing focus points

5. Scanning sample
6. Turning off

Item: Zeiss Cell discoverer 7 (CD7)
SIP: 4661000128
Equi-Nr.: 1060702
UKL-Anlagen-Nr.:

1. Turning on:

Turn on:
1- Power supply (AXIO1),
2- PC (2-AXIO2),

Log in:

Login: IMT-ZEISS-01

PW: imtzeiss!22

3- X-Cite lamp (3-AXIO3),
4- Slide Scanner (AXIO4)

Accept the opening of the “Fill out usage time” form and fill it (except for stopping time).

5- Open ZEN blue software

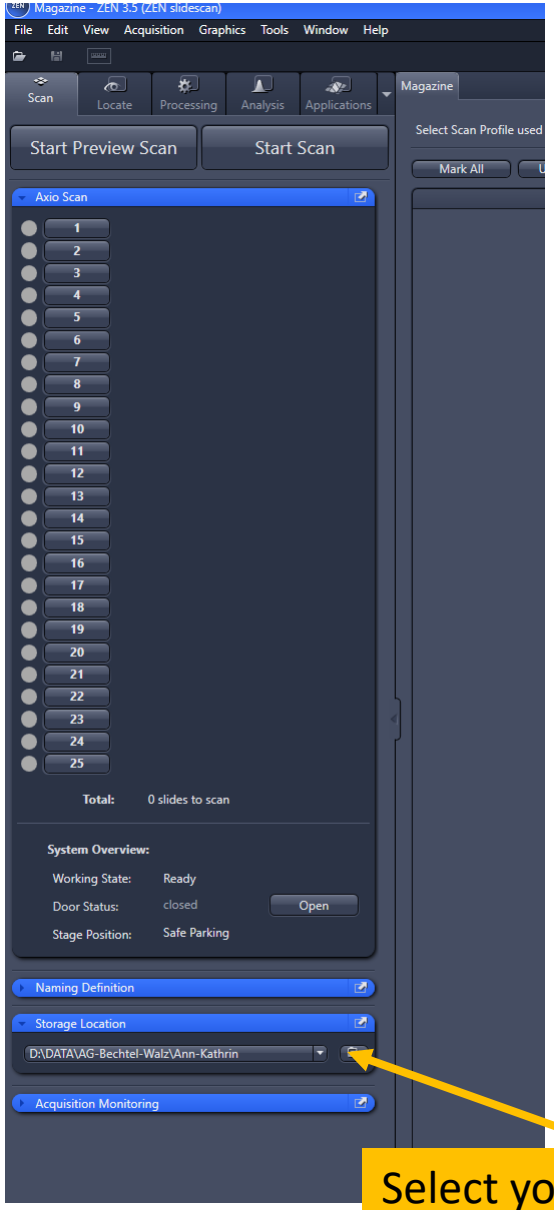
6- On scan Area, select your data storage location: D:\images

Do not save directly to Z:\pool. The connection to this drive is not stable and may stop the scanning process if disconnected.

7. Press open button on Zen program (or on the Axioscan) to open slide magazine

8. Load the slides and close the slide magazine

1

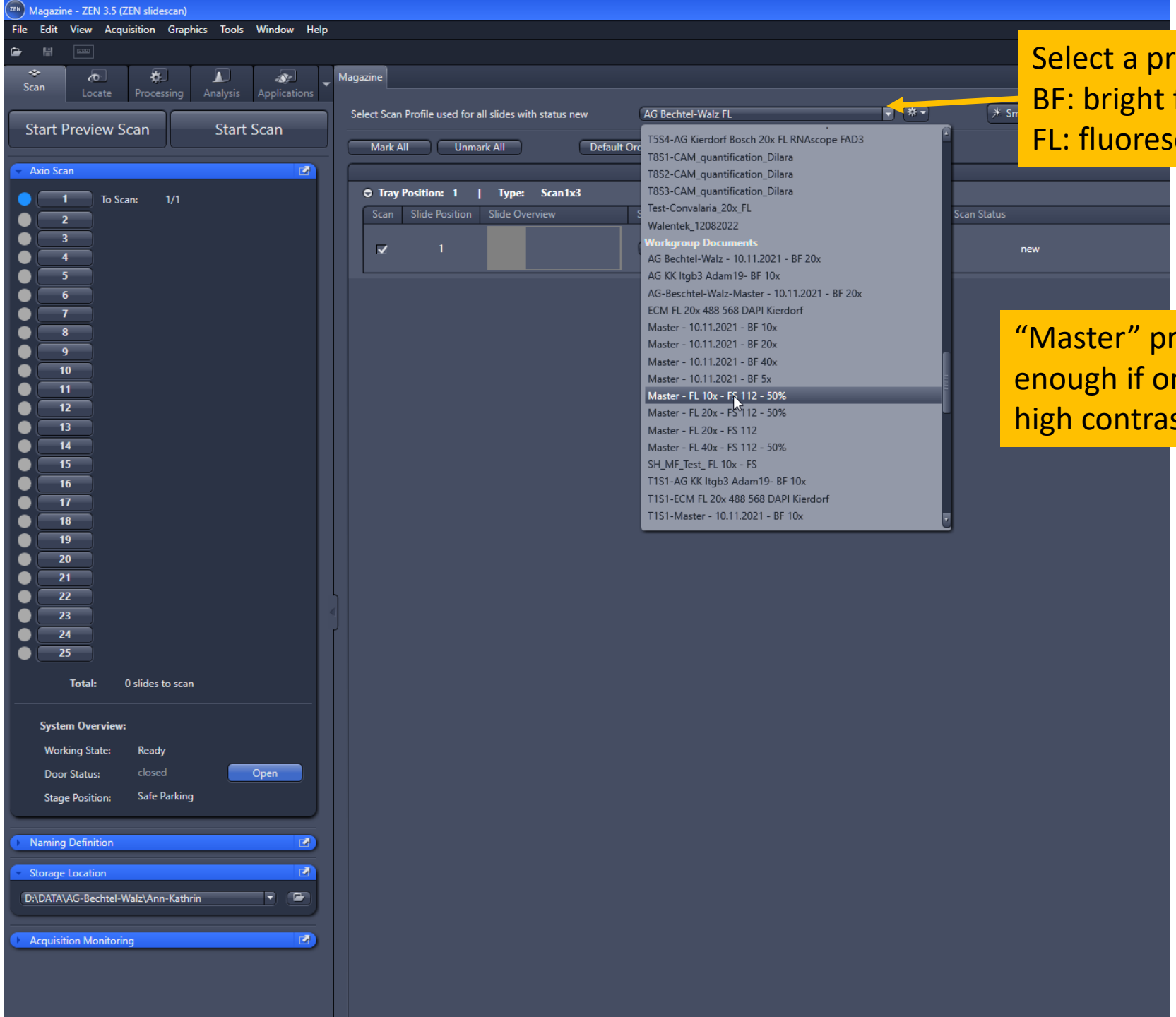


Select your saving area (D:\data) Do not save to Z-pool directly, nor to the desktop)!

2

Open slide magazine and load the slides

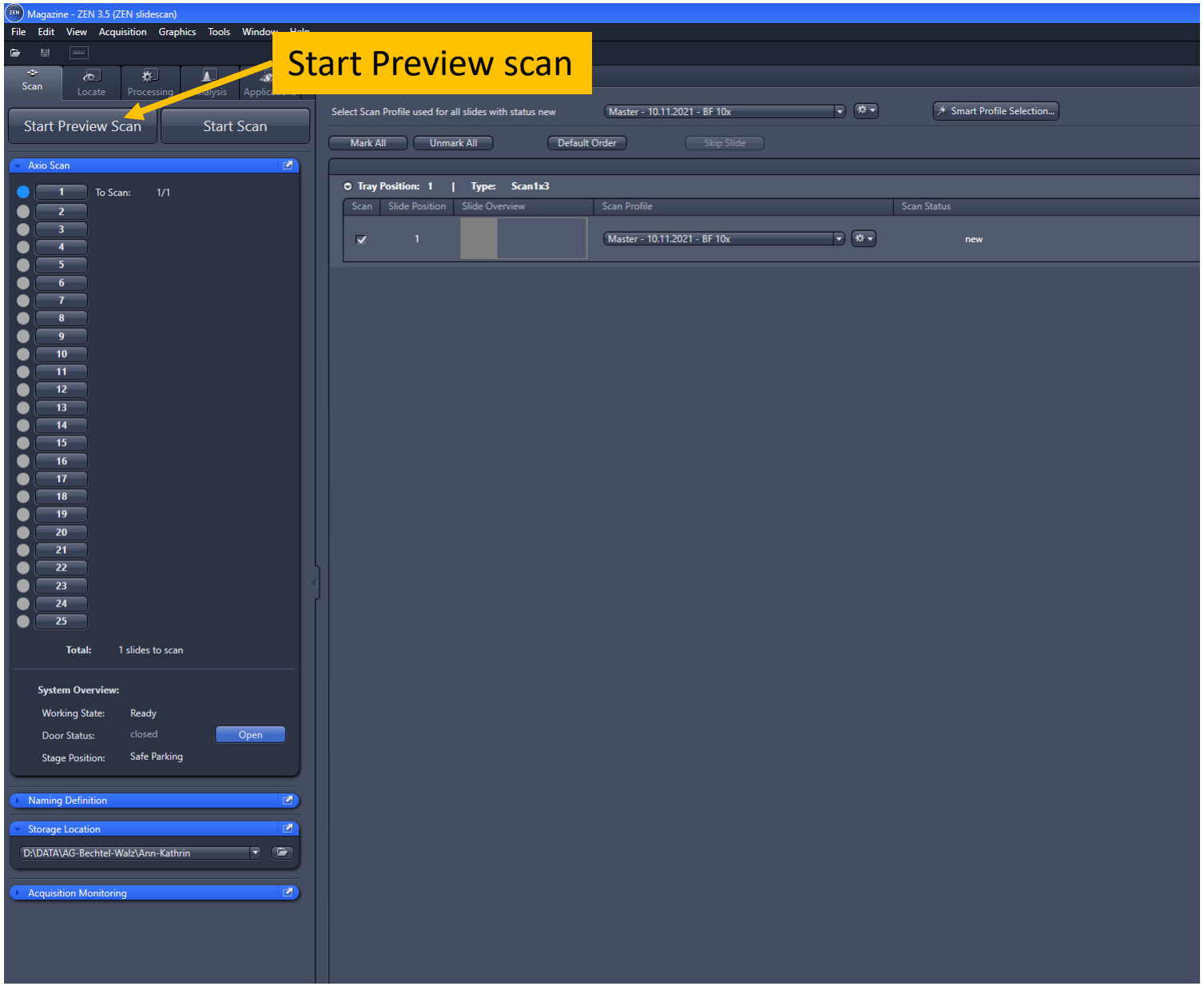
3

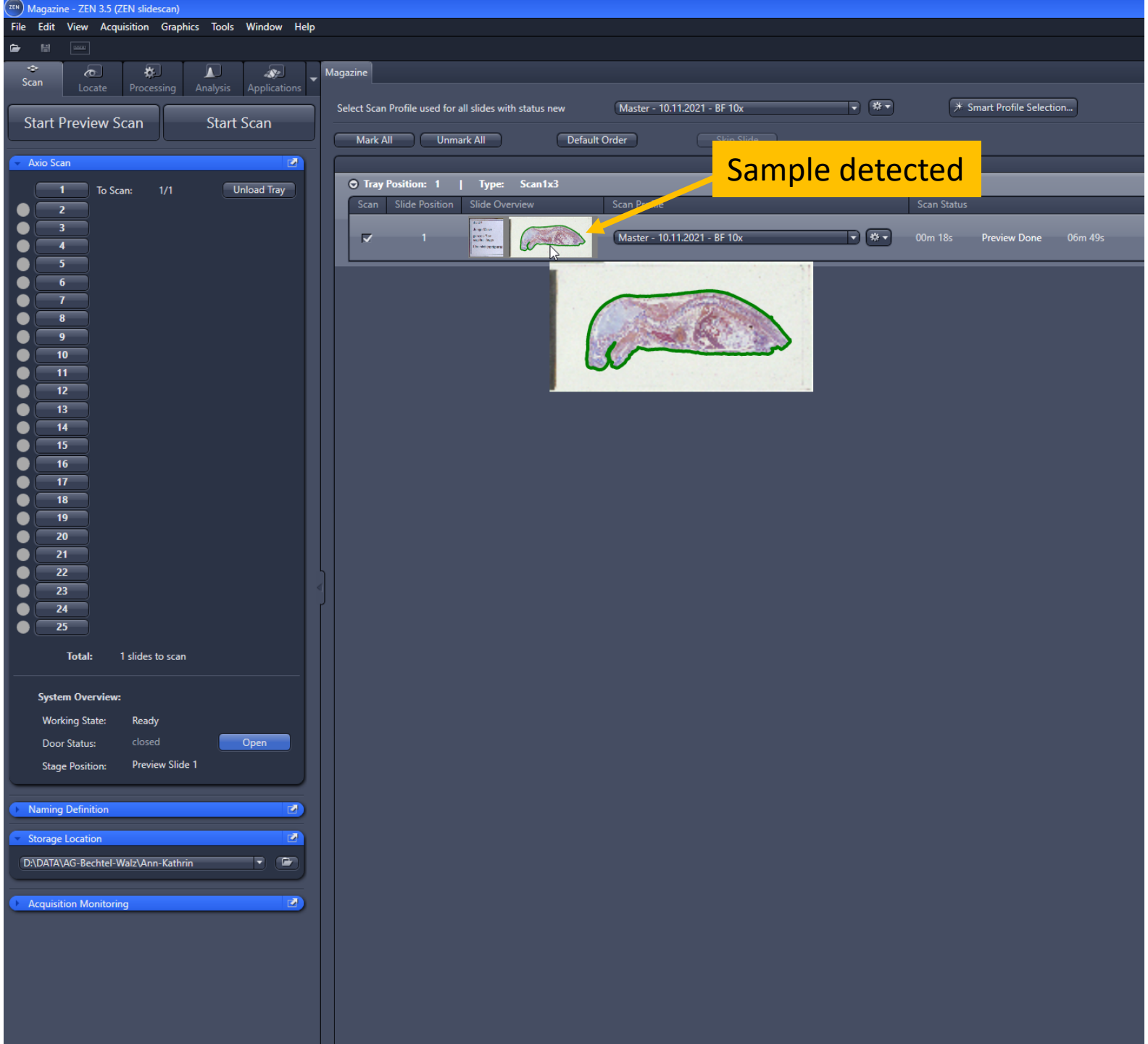


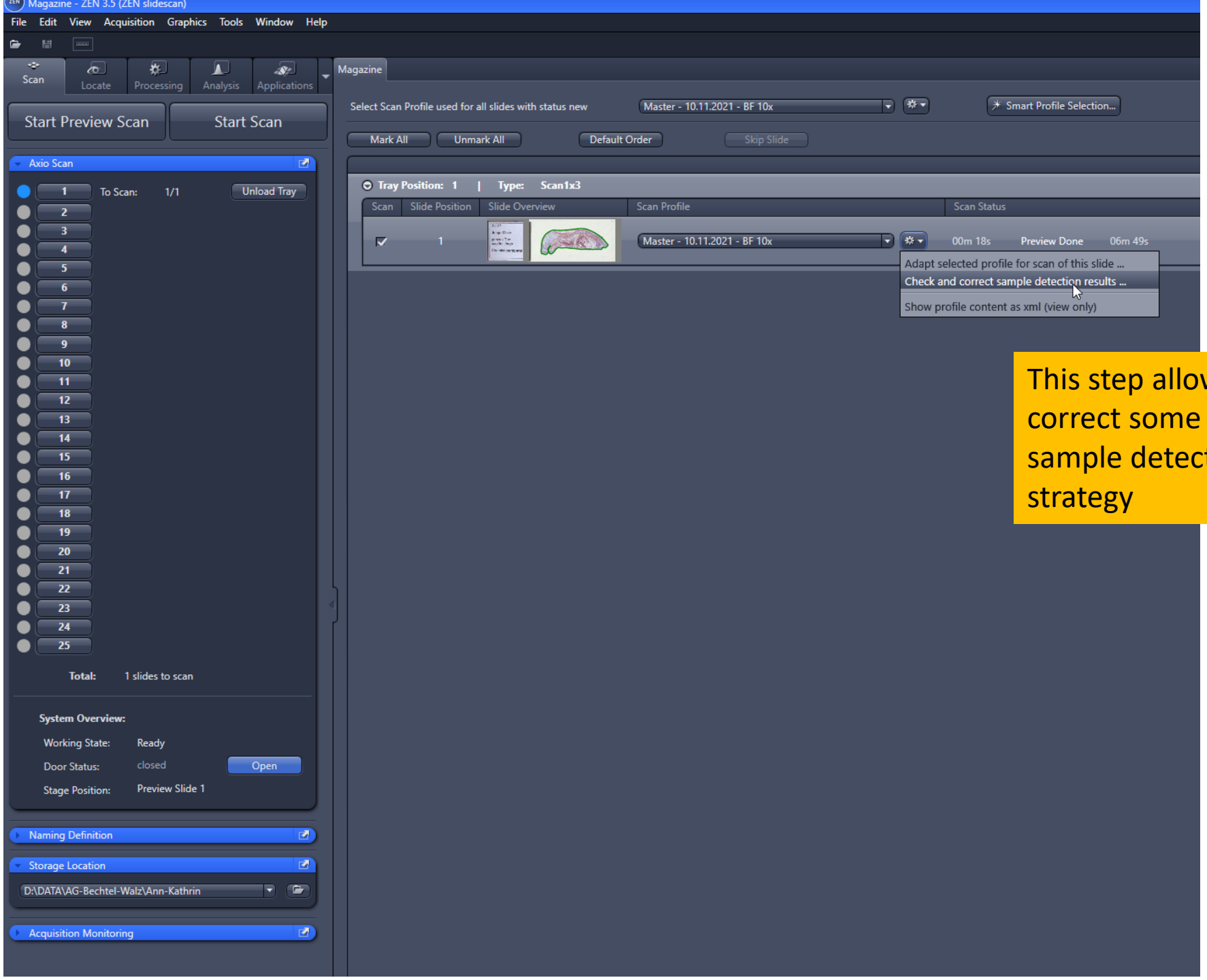
Select a pre-defined profile
BF: bright field
FL: fluorescence

"Master" profiles can be used and are good enough if one is to look at samples with high contrast

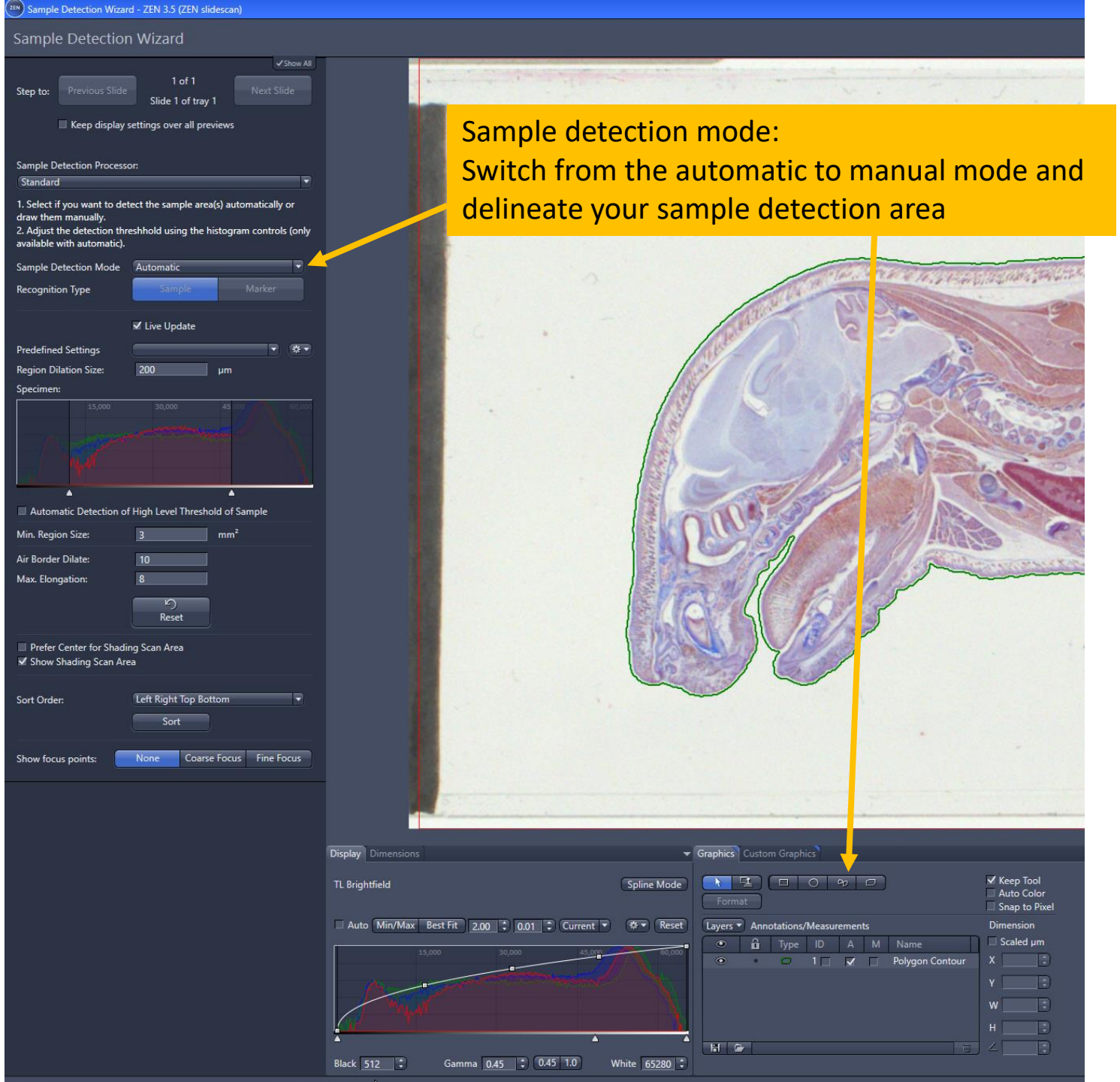
4

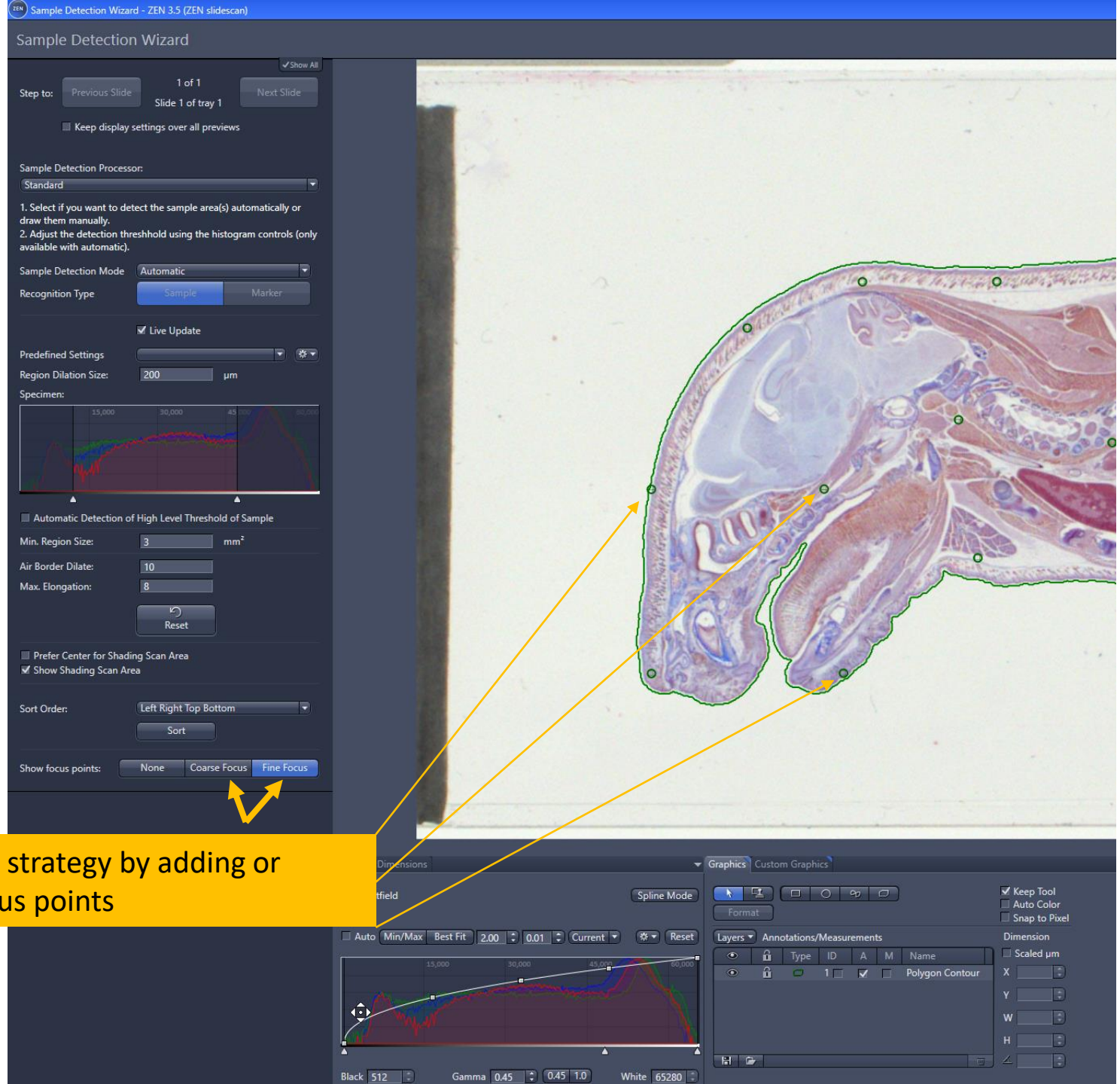

Magazine - ZEN 3.5 (ZEN slidescan)
File Edit View Acquisition Graphics Tools Window Help
Start Preview scan
Scan
Locate
Processing
Start Preview Scan
Start Scan
Axio Scan
To Scan: 1/1
Total: 1 slides to scan
System Overview:
Working State: Ready
Door Status: closed
Open
Stage Position: Safe Parking
Naming Definition
Storage Location
D:\DATA\AG-Bechtel-Walz\Ann-Kathrin
Acquisition Monitoring
Select Scan Profile used for all slides with status new
Master - 10.11.2021 - BF 10x
Smart Profile Selection...
Mark All
Unmark All
Default Order
Skip Slide
Tray Position: 1 | Type: Scan1x3
Scan
Slide Position
Slide Overview
Scan Profile
Scan Status
1
Master - 10.11.2021 - BF 10x
new


Magazine - ZEN 3.5 (ZEN slidescan)
File Edit View Acquisition Graphics Tools Window Help
Scan Locate Processing Analysis Applications
Start Preview Scan
Start Scan
Axio Scan
To Scan: 1/1
Unload Tray
Total: 1 slides to scan
System Overview:
Working State: Ready
Door Status: closed
Open
Stage Position: Preview Slide 1
Naming Definition
Storage Location
D:\DATA\AG-Bechtel-Walz\Ann-Kathrin
Acquisition Monitoring
Magazine
Select Scan Profile used for all slides with status new
Master - 10.11.2021 - BF 10x
Smart Profile Selection...
Mark All
Unmark All
Default Order
Sample detected
Tray Position: 1 | Type: Scan1x3
Scan
Slide Position
Slide Overview
Scan Profile
Scan Status
1
Master - 10.11.2021 - BF 10x
00m 18s
Preview Done
06m 49s

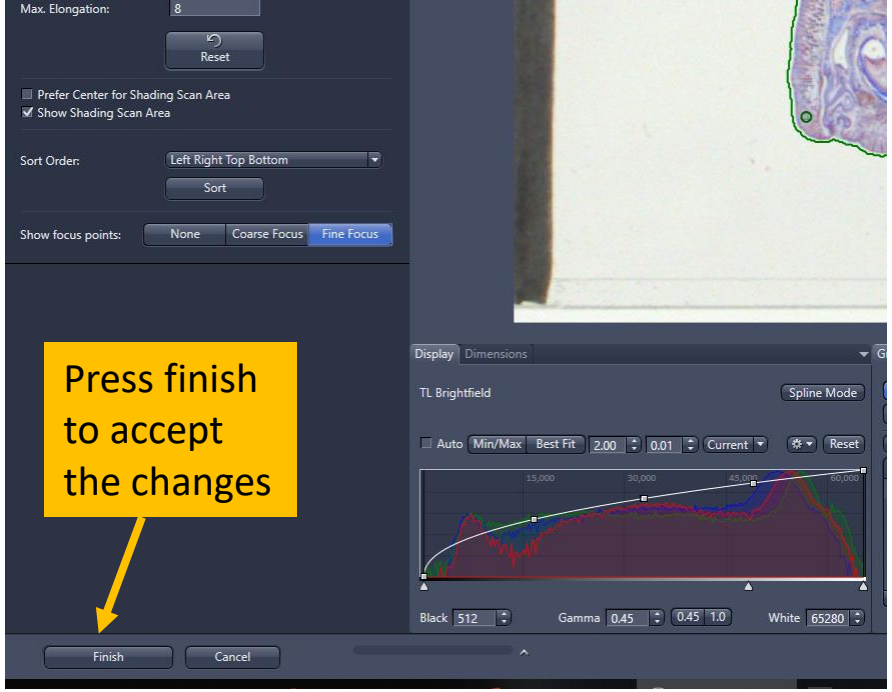


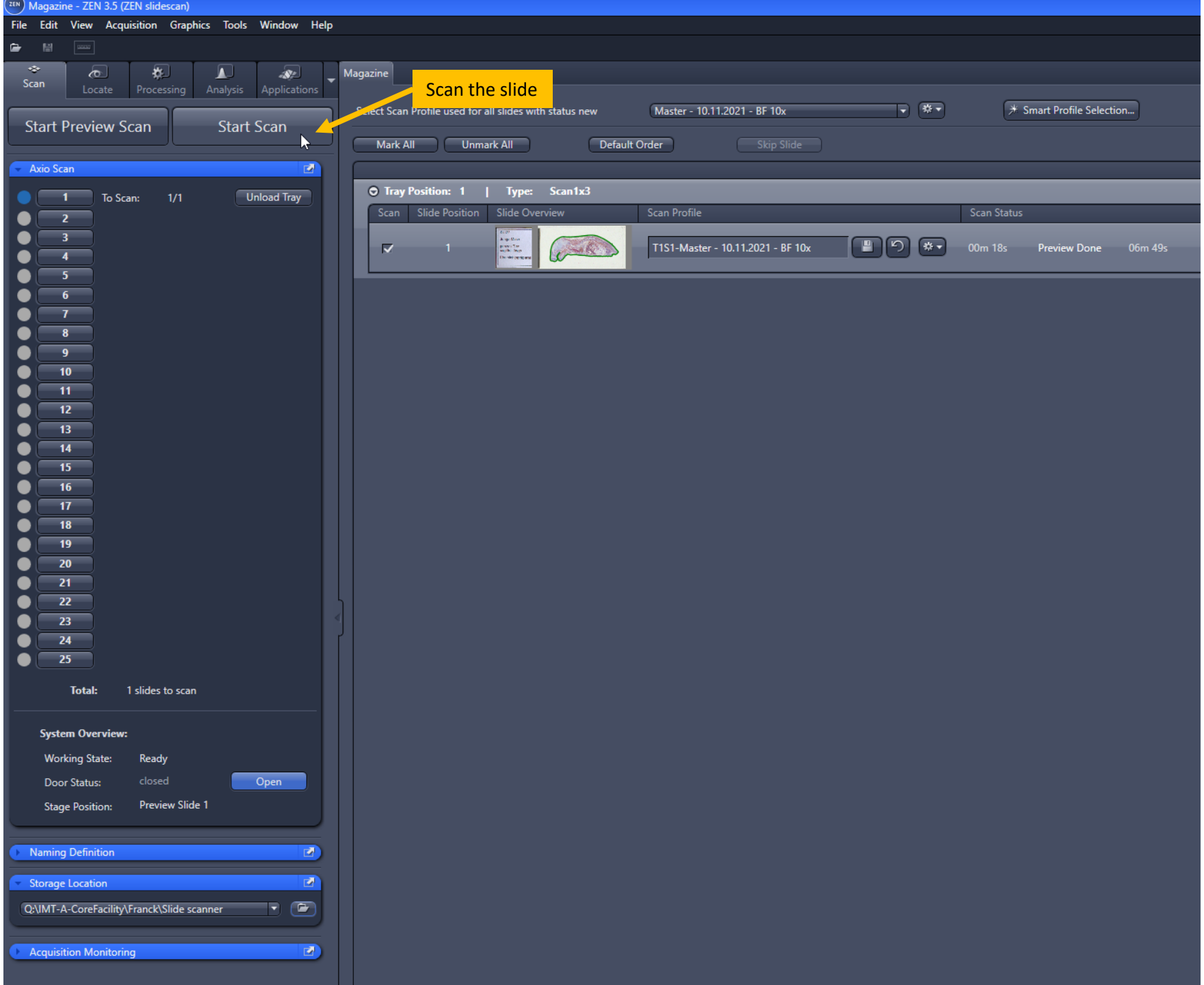
This step allows you to correct some settings : sample detection and focus strategy

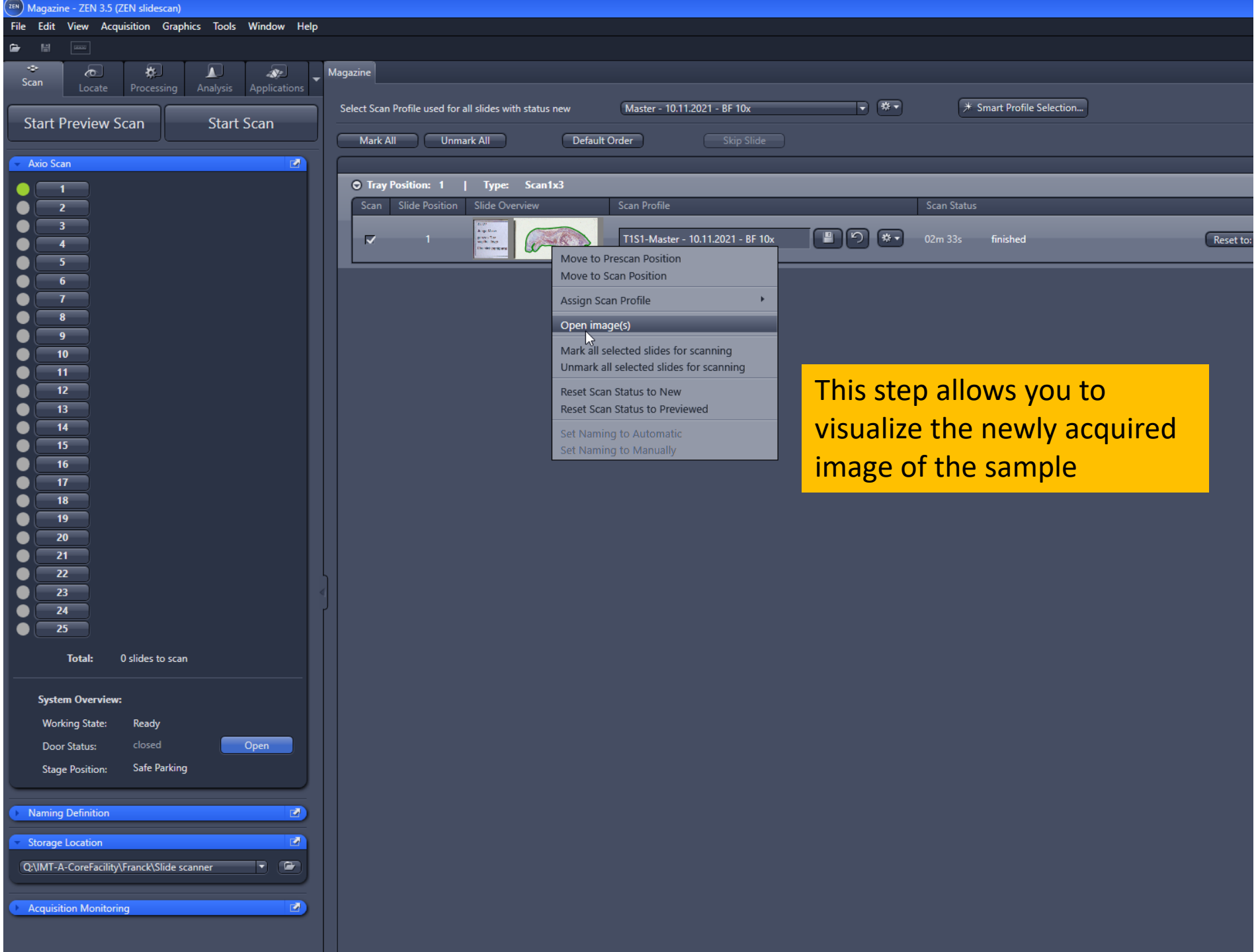

Sample Detection Wizard - ZEN 3.5 (ZEN slidescan)
Sample Detection Wizard
Show All
Step to:
Previous Slide
1 of 1
Slide 1 of tray 1
Next Slide
Keep display settings over all previews
Sample Detection Processor:
Standard
1. Select if you want to detect the sample area(s) automatically or draw them manually.
2. Adjust the detection threshhold using the histogram controls (only available with automatic).
Sample Detection Mode
Automatic
Recognition Type
Sample
Marker
Live Update
Predefined Settings
Region Dilation Size:
200
µm
Specimen:
15,000
30,000
Automatic Detection of High Level Threshold of Sample
Min. Region Size:
3
mm²
Air Border Dilate:
10
Max. Elongation:
8
Reset
Prefer Center for Shading Scan Area
Show Shading Scan Area
Sort Order:
Left Right Top Bottom
Sort
Show focus points:
None
Coarse Focus
Fine Focus
Sample detection mode:
Switch from the automatic to manual mode and delineate your sample detection area
Display
Dimensions
TL Brightfield
Spline Mode
Auto
Min/Max
Best Fit
2.00
0.01
Current
Reset
Black
512
Gamma
0.45
1.0
White
65280
Graphics
Custom Graphics
Format
Keep Tool
Auto Color
Snap to Pixel
Layers
Annotations/Measurements
Dimension
Scaled µm
Type
ID
A
M
Name
Polygon Contour
X
Y
W
H



Correct focus strategy by adding or removing focus points


Max. Elongation:
8
Reset
Prefer Center for Shading Scan Area
Show Shading Scan Area
Sort Order:
Left Right Top Bottom
Sort
Show focus points:
None
Coarse Focus
Fine Focus
Press finish to accept the changes
Display
Dimensions
TL Brightfield
Spline Mode
Auto
Min/Max
Best Fit
2.00
0.01
Current
Reset
15,000
30,000
45,000
60,000
Black
512
Gamma
0.45
0.45
1.0
White
65280
Finish
Cancel


Magazine - ZEN 3.5 (ZEN slidescan)
File Edit View Acquisition Graphics Tools Window Help
Scan
Locate
Processing
Analysis
Applications
Magazine
Scan the slide
Start Preview Scan
Start Scan
Master - 10.11.2021 - BF 10x
Smart Profile Selection...
Mark All
Unmark All
Default Order
Skip Slide
Axio Scan
To Scan: 1/1
Unload Tray
Tray Position: 1 | Type: Scan1x3
Scan
Slide Position
Slide Overview
Scan Profile
Scan Status
T1S1-Master - 10.11.2021 - BF 10x
00m 18s
Preview Done
06m 49s
Total: 1 slides to scan
System Overview:
Working State: Ready
Door Status: closed
Open
Stage Position: Preview Slide 1
Naming Definition
Storage Location
Q:\IMT-A-CoreFacility\Franck\Slide scanner
Acquisition Monitoring



This step allows you to visualize the newly acquired image of the sample

1. Turning off:

1- Press unload the slides
2- Open the Magazine door, remove the slides and close the door
4- Enter the ending time in the „Usage time“ form
3- Close Zen program
4- Switch off the Axioscan (#AXIO4)
5- Switch off the X-cite lamp (#AXIO3)
6- Switch off Computer
7- Switch off Power supply (#AXIO1)
8- Fill out the paper log sheet