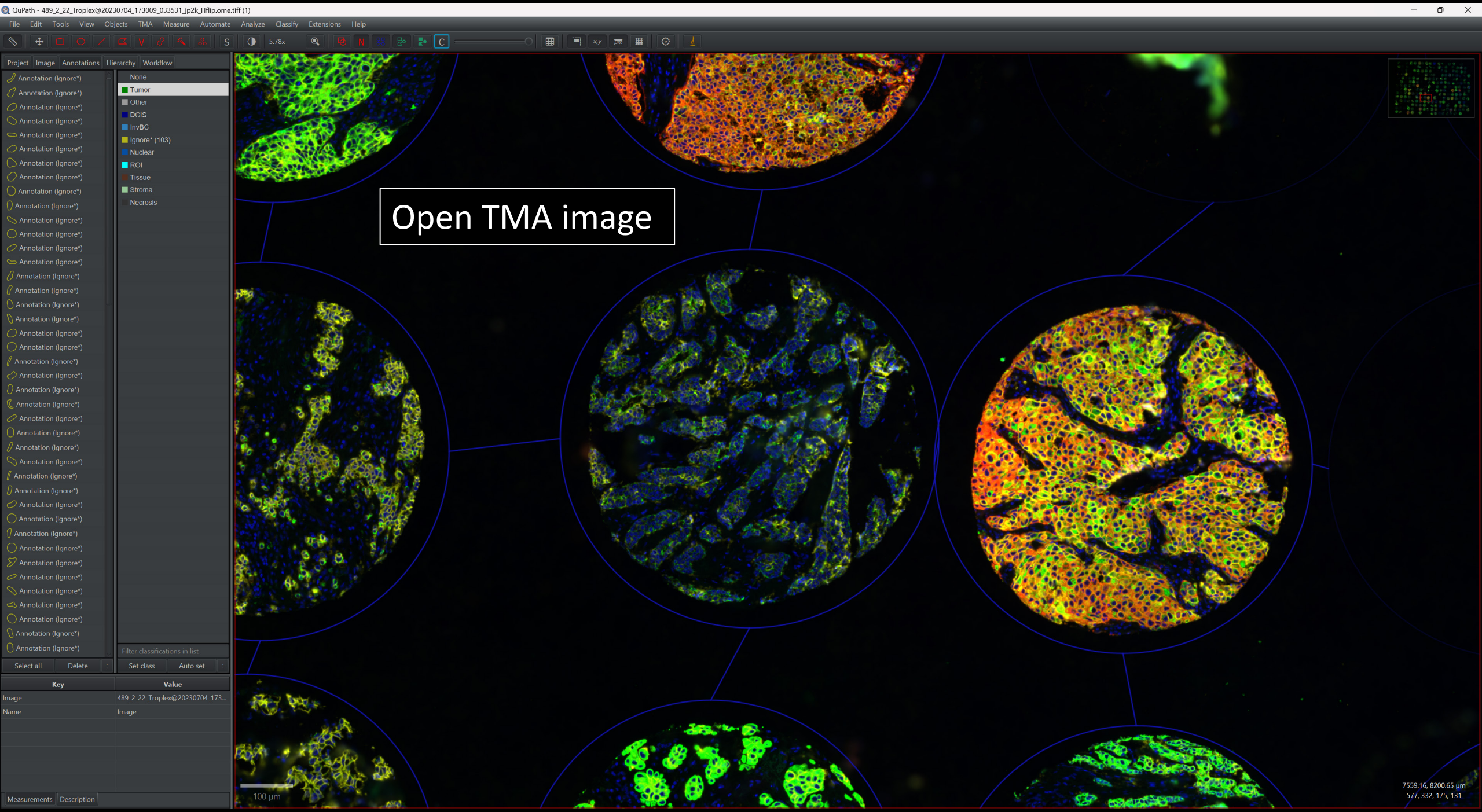
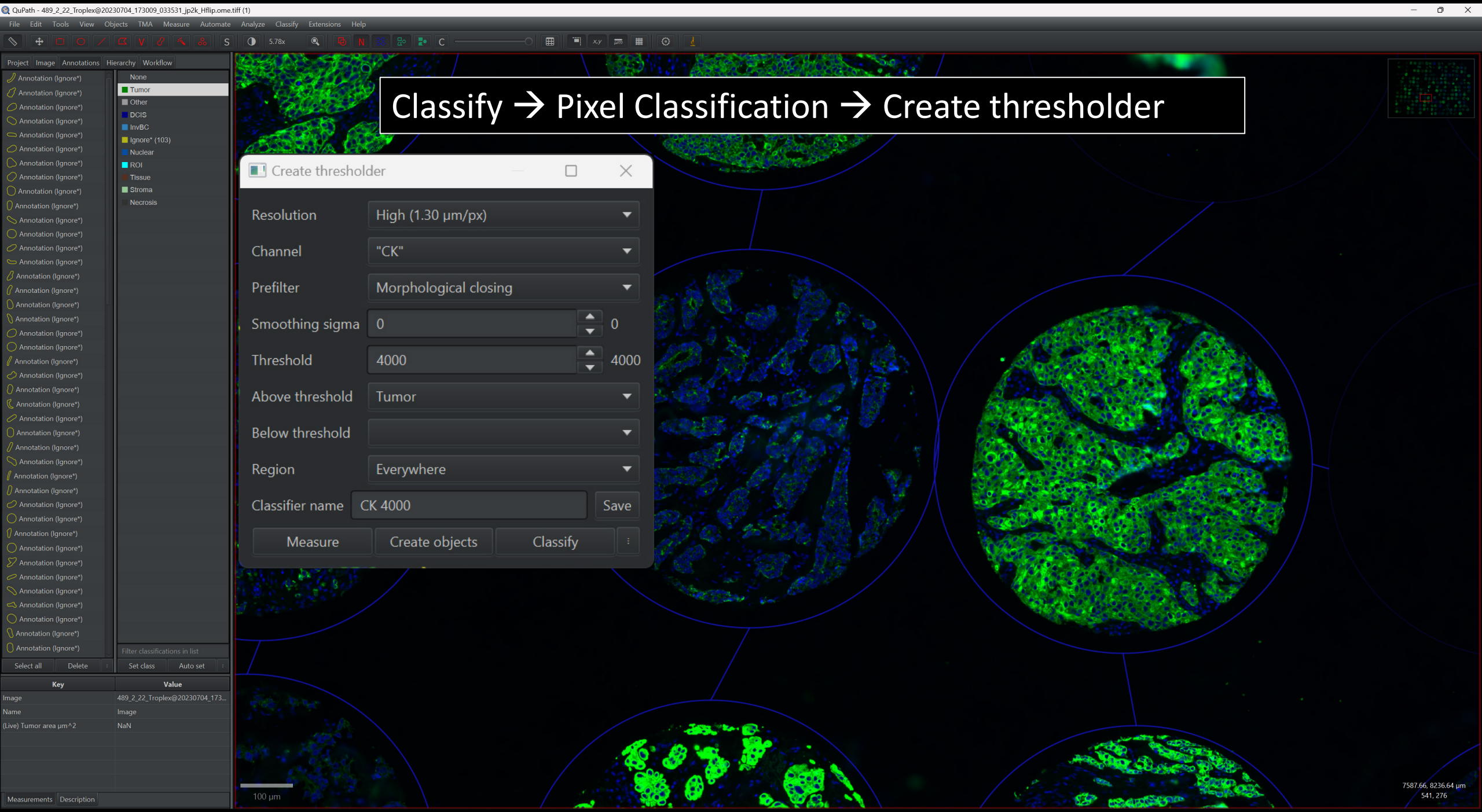
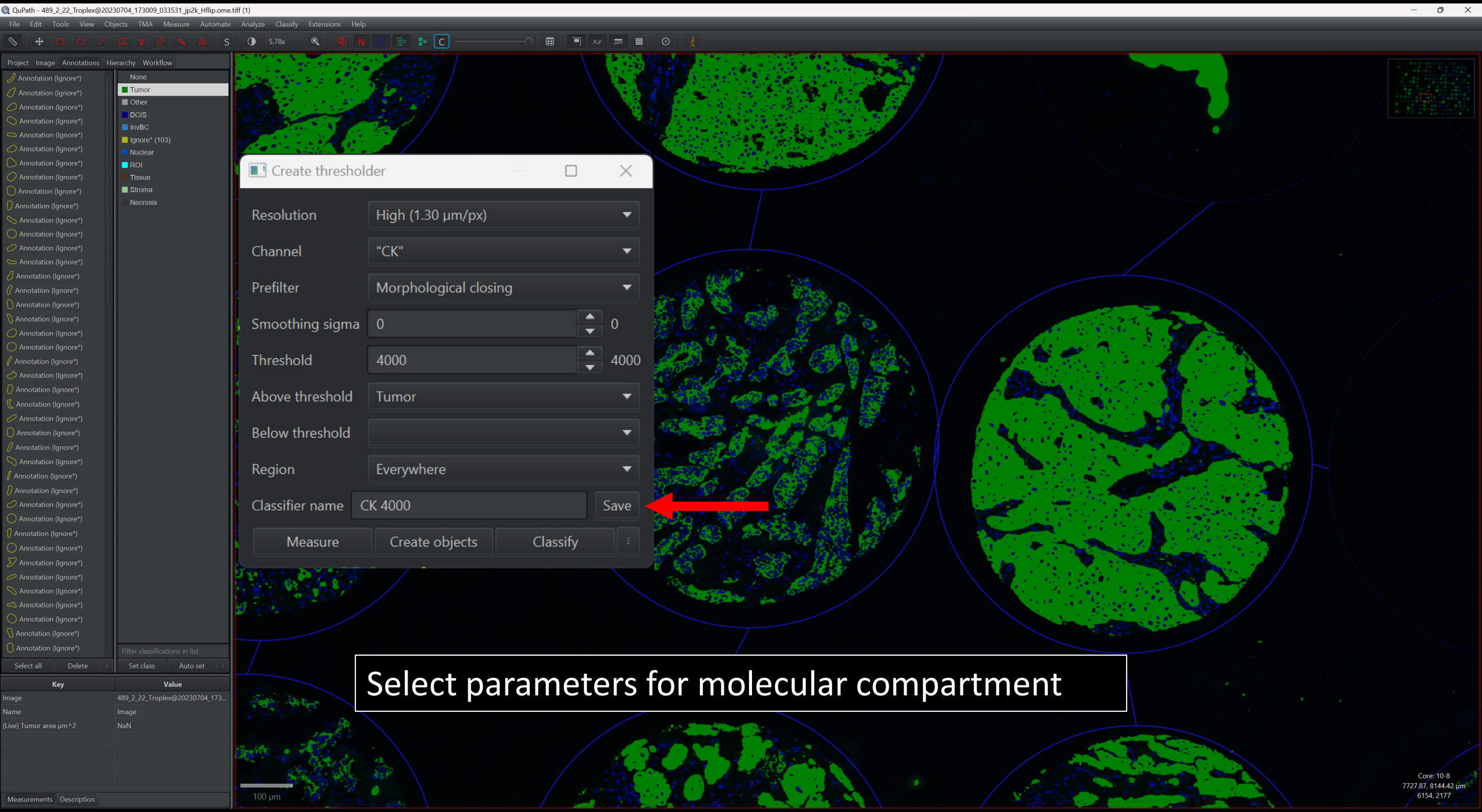
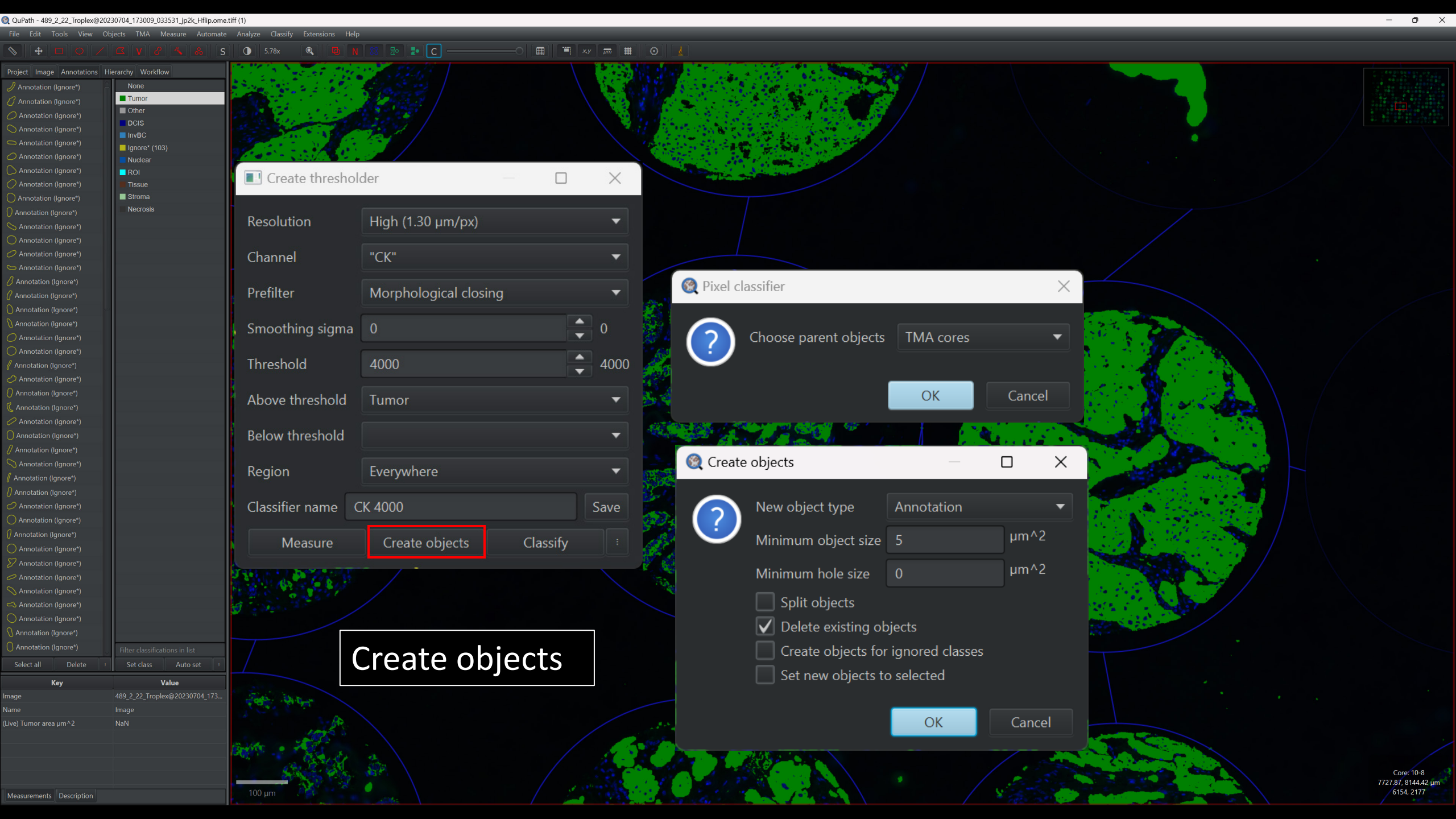
Qymia Workflow Example

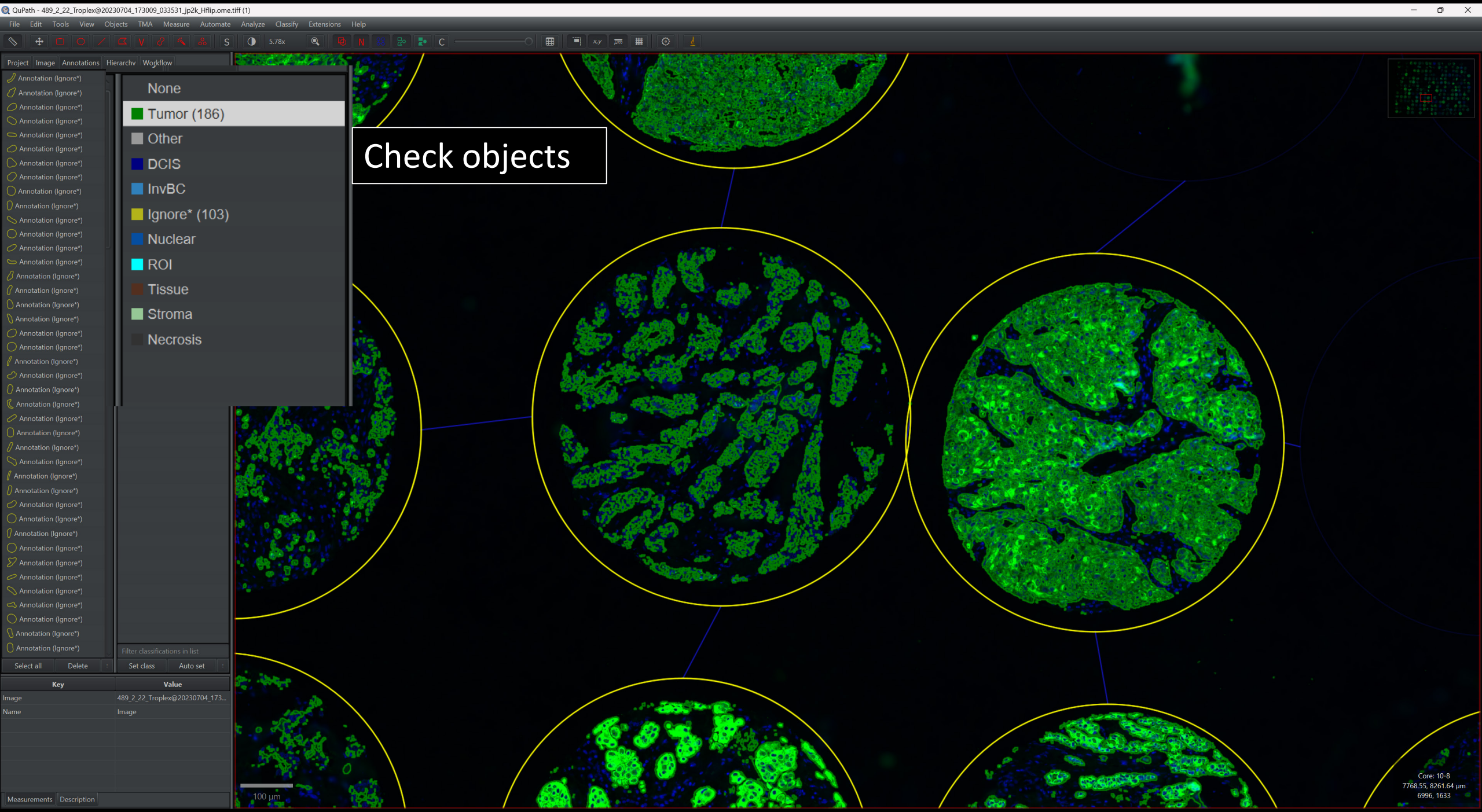

QuPath - 489_2_22_Troplex@20230704_173009_033531_jp2k_Hflip.ome.tiff (1)
File Edit Tools View Objects TMA Measure Automate Analyze Classify Extensions Help
5.78x
Project Image Annotations Hierarchy Workflow
Annotation (Ignore*)
None
Tumor
Other
DCIS
InvBC
Ignore* (103)
Nuclear
ROI
Tissue
Stroma
Necrosis
Filter classifications in list
Select all Delete
Set class Auto set
Key Value
Image 489_2_22_Troplex@20230704_173...
Name Image
Measurements Description
Open TMA image
100 µm
7559.16, 8200.65 µm
577, 332, 175, 131


Classify → Pixel Classification → Create thresholder
QuPath - 489_2_22_Troplex@20230704_173009_033531_jp2k_Hflip.ome.tiff (1)
File Edit Tools View Objects TMA Measure Automate Analyze Classify Extensions Help
Project Image Annotations Hierarchy Workflow
None
Tumor
Other
DCIS
InvBC
Ignore* (103)
Nuclear
ROI
Tissue
Stroma
Necrosis
Filter classifications in list
Select all Delete
Set class Auto set
Key Value
Image 489_2_22_Troplex@20230704_173...
Name Image
(Live) Tumor area µm^2 NaN
Measurements Description
Create thresholder
Resolution High (1.30 µm/px)
Channel "CK"
Prefilter Morphological closing
Smoothing sigma 0 0
Threshold 4000 4000
Above threshold Tumor
Below threshold
Region Everywhere
Classifier name CK 4000 Save
Measure Create objects Classify
100 µm
7587.66, 8236.64 µm
541, 276



Select parameters for molecular compartment


QuPath - 489_2_22_Troplex@20230704_173009_033531_jp2k_Hflip.ome.tiff (1)
File Edit Tools View Objects TMA Measure Automate Analyze Classify Extensions Help
Project Image Annotations Hierarchy Workflow
None
Tumor
Other
DCIS
InvBC
Ignore* (103)
Nuclear
ROI
Tissue
Stroma
Necrosis
Select all Delete
Set class Auto set
Key Value
Image 489_2_22_Troplex@20230704_173...
Name Image
(Live) Tumor area µm^2 NaN
Measurements Description
Create thresholder
Resolution High (1.30 µm/px)
Channel "CK"
Prefilter Morphological closing
Smoothing sigma 0 0
Threshold 4000 4000
Above threshold Tumor
Below threshold
Region Everywhere
Classifier name CK 4000 Save
Measure Create objects Classify
Pixel classifier
Choose parent objects TMA cores
OK Cancel
Create objects
New object type Annotation
Minimum object size 5 µm^2
Minimum hole size 0 µm^2
Split objects
Delete existing objects
Create objects for ignored classes
Set new objects to selected
OK Cancel
Create objects
100 µm
Core: 10-8
7727.87, 8144.42 µm
6154, 2177


QuPath - 489_2_22_Troplex@20230704_173009_033531_jp2k_Hflip.ome.tiff (1)
File Edit Tools View Objects TMA Measure Automate Analyze Classify Extensions Help
5.78x
Project Image Annotations Hierarchy Workflow
Check objects
None
Tumor (186)
Other
DCIS
InvBC
Ignore* (103)
Nuclear
ROI
Tissue
Stroma
Necrosis
Filter classifications in list
Select all Delete
Set class Auto set
Key Value
Image 489_2_22_Troplex@20230704_173...
Name Image
Measurements Description
100 µm
Core: 10-8
7768.55, 8261.64 µm
6996, 1633

QuPath - 489_2_22_Troplex@20230704_173009_033531_jp2k_Hflip.ome.tiff (1)

File Edit Tools View Objects TMA Measure Automate Analyze Classify Extensions Help

4.43x

Project Image Annotations Hierarchy Workflow

Annotation (Ignore*)

None
Tumor (193)
Other
DCIS
InvBC
Ignore* (103)
Nuclear
ROI
Tissue
Stroma
Necrosis

Filter classifications in list

Select all Delete Set class Auto set

Key	Value
Image	489_2_22_Troplex@20230704_173...
Name	Image
(Live) Tissue area µm^2	62893588

Measurements Description

Create thresholder

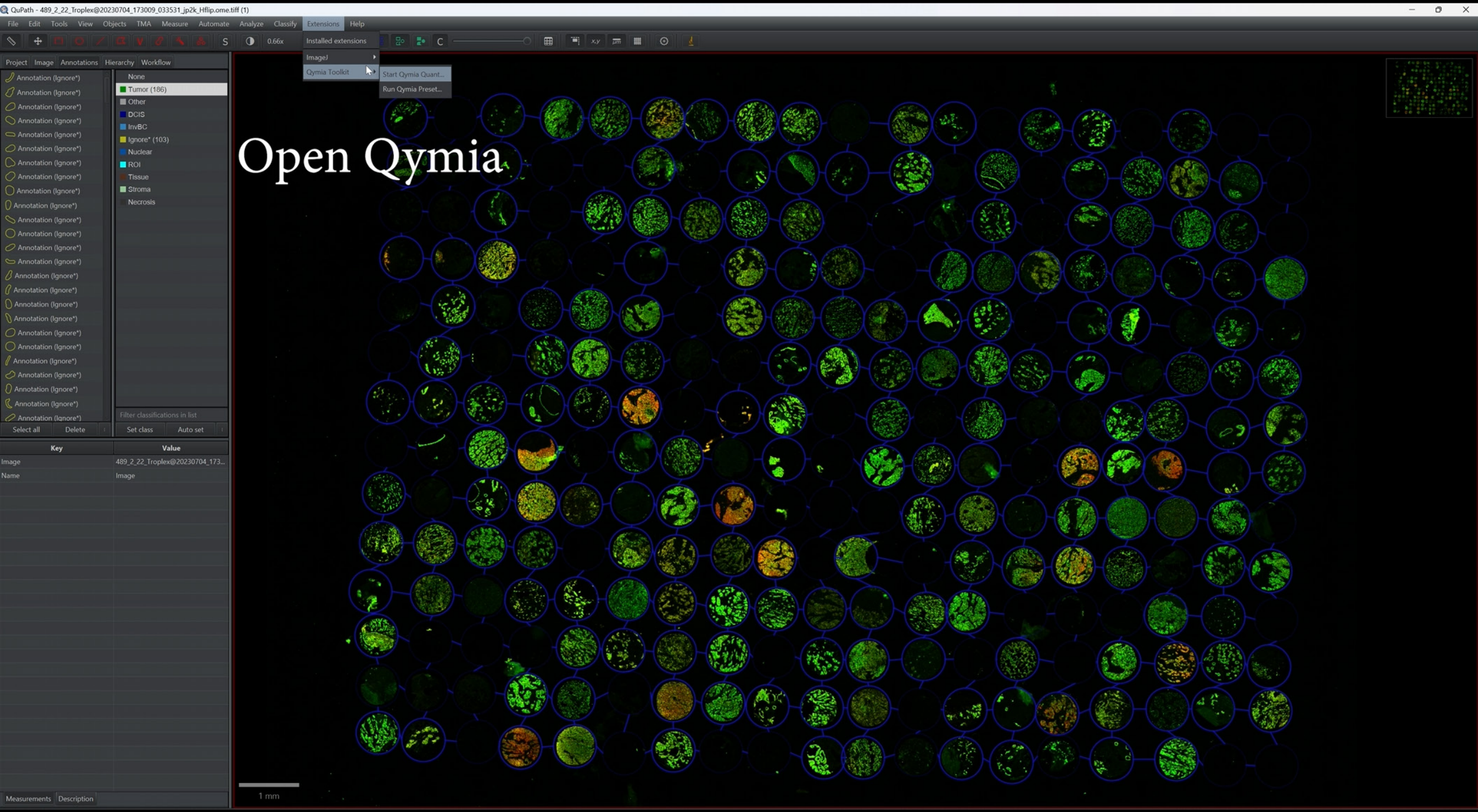
Resolution	Moderate (2.60 µm/px)
Channel	Average channels
Prefilter	Morphological closing
Smoothing sigma	1
Threshold	500
Above threshold	Tissue
Below threshold	
Region	Everywhere
Classifier name	*Tissue 500*

Save

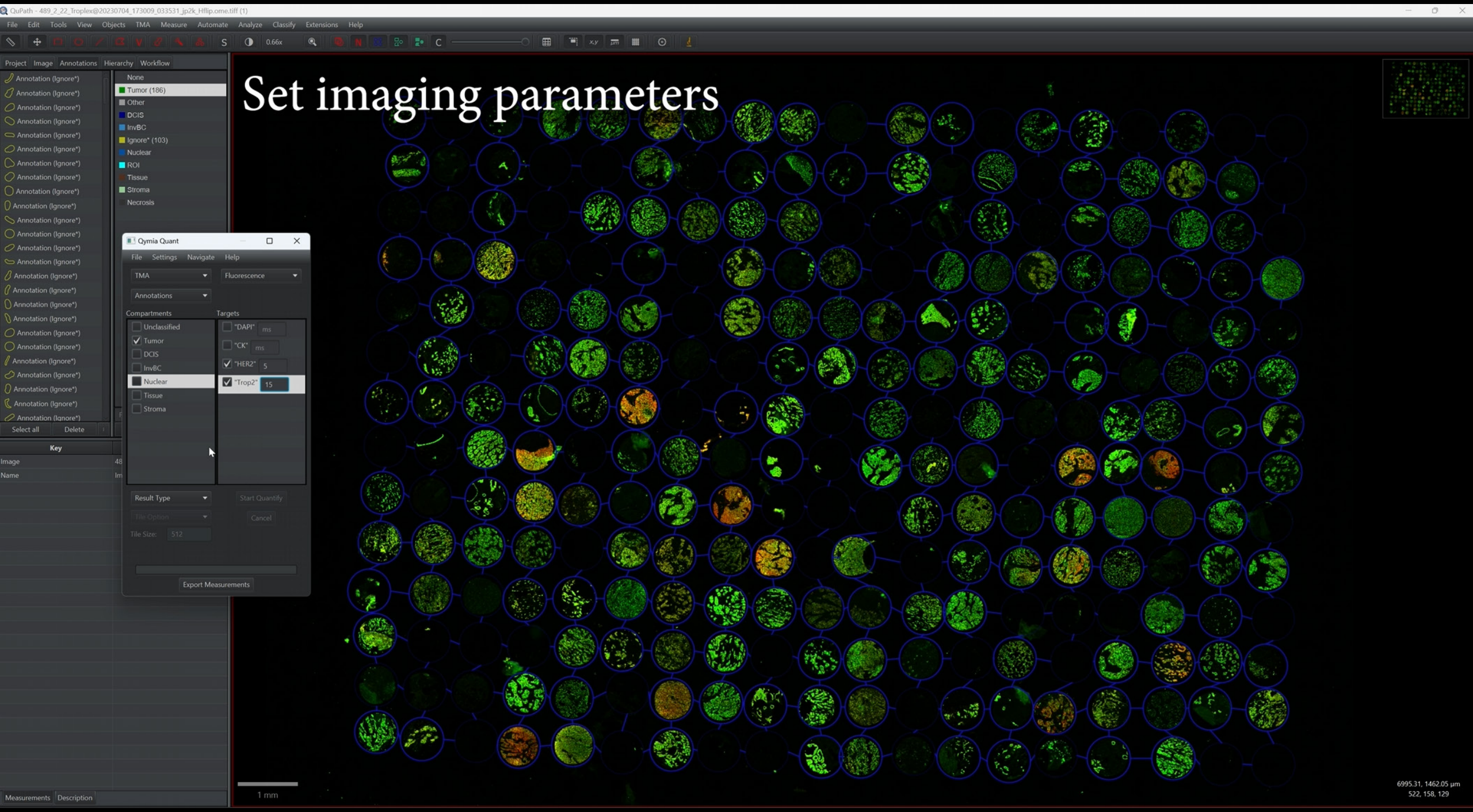
Measure Create objects Classify

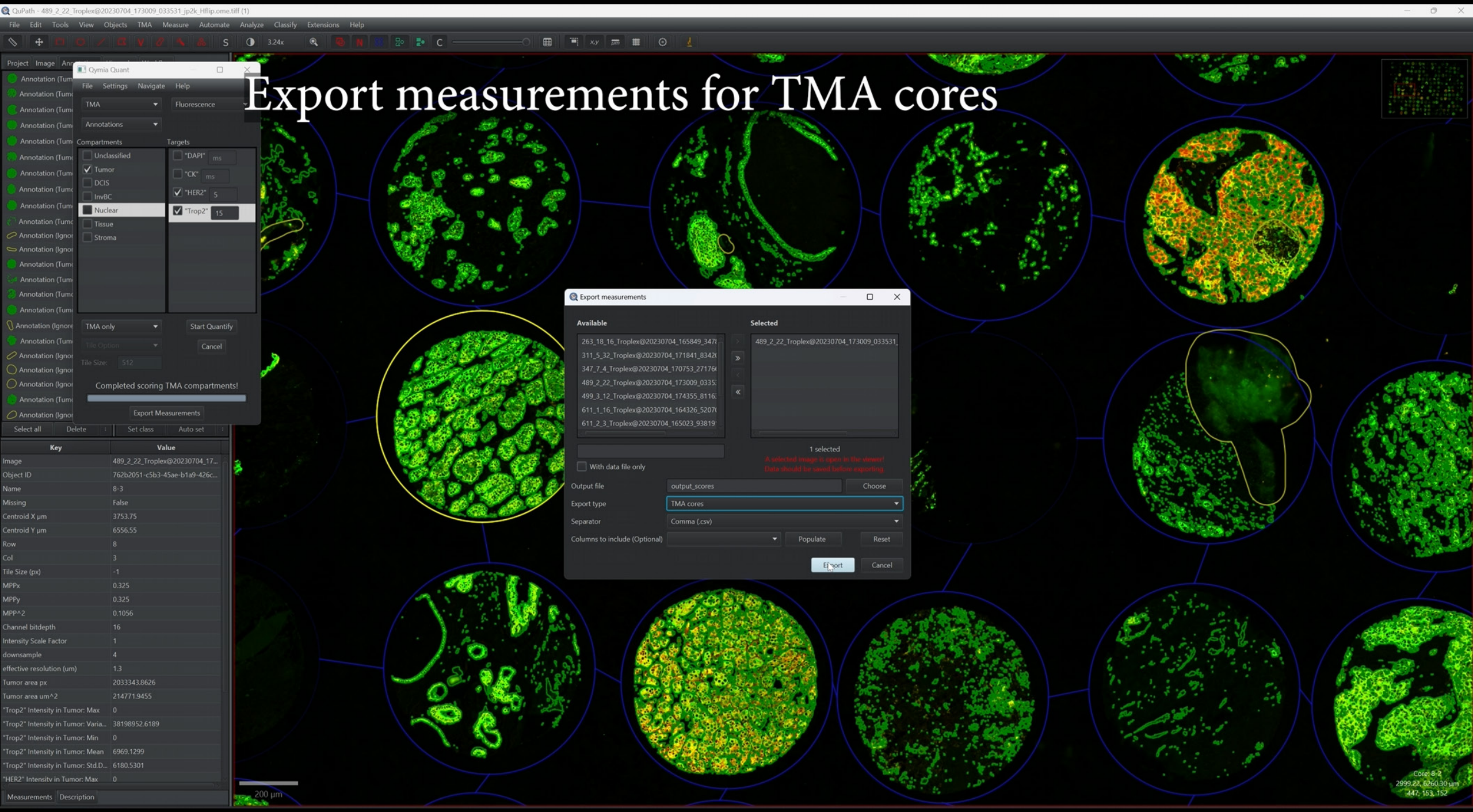
100 µm

Core: 9-3
3758.92, 7326.88 µm
339, 299, 154


Open Qymia
QuPath - 489_2_22_Troplex@20230704_173009_033531_jp2k_Hflip.ome.tiff (1)
File
Edit
Tools
View
Objects
TMA
Measure
Automate
Analyze
Classify
Extensions
Help
Installed extensions
ImageJ
Qymia Toolkit
Start Qymia Quant...
Run Qymia Preset...
Project
Image
Annotations
Hierarchy
Workflow
None
Tumor (186)
Other
DCIS
InvBC
Ignore* (103)
Nuclear
ROI
Tissue
Stroma
Necrosis
Filter classifications in list
Select all
Delete
Set class
Auto set
Key
Value
Image
489_2_22_Troplex@20230704_173...
Name
Image
Measurements
Description
1 mm

Set imaging parameters



Start Quantify
QuPath - 489_2_22_Troplex@20230704_173009_033531_jp2k_Hflip.ome.tiff (1)
File Edit Tools View Objects TMA Measure Automate Analyze Classify Extensions Help
Project Image Annotations Hierarchy Workflow
None
Tumor (186)
Other
DCIS
InvBC
Ignore* (103)
Nuclear
ROI
Tissue
Stroma
Necrosis
Qymia Quant
File Settings Navigate Help
TMA
Fluorescence
Annotations
Compartments
Targets
Unclassified
Tumor
DCIS
InvBC
Nuclear
Tissue
Stroma
"DAPI" ms
"CK" ms
"HER2" 5
"Trop2" 15
TMA only
Start Quantify
Cancel
Tile Size: 512
Completed scoring TMA compartments!
Export Measurements
Select all
Delete
Key
Image
Name
Measurements
Description
1 mm
842.79, 6990.79 µm
358, 139, 122

Export measurements for TMA cores