

Tissue Detection App

Outline tissue, TMA de-arranging, divide slides into scan areas.



Tissue Detection

Tissue Analysis Apps (find ROIs)

Analyze tissue and create masks that can serve as ROIs for further analysis.



Mask by Color



AI Author



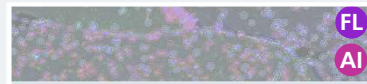
H&E Colon Tissue AI

Cell / Spot / Object Detection Apps (per ROI)

Detect cells or other objects and assign them to a ROI.



IHC Cell Detection



FL Cell Analysis



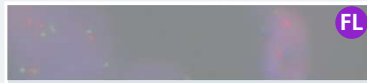
H&E Cell AI



H&E Cell AI (Detection only)



H&E Crypt AI



HER2/neu FISH

Detected Objects Analysis Apps

Analyze already detected objects (spatial, color, or morphometric analysis).



Cell-Cell Connections



Spatial Clustering



Cellular Neighborhood



Annotation Metrics

Data Export

Export slide level results, markup and images

Quantitative results

Each app exports to CSV (Excel)

Markup

GeoJson (for QuPath), Aperio XML, CSV, MIKAI A ANO

Image Export Apps



Annotation Image Export



Tile Export

Further tools

- batch processing
- search hotspots
- density heatmap
- create concentric margins
- annotation set operations (fuse, subtract, intersect, clip)
- import/export annotations
- crop / export WSI
- live stain unmixing
- stain estimation
- undo / redo annotations
- edit annotations
- auto-save
- ...

```
with tensorflow model and define model name
# you can use your own AI model instead.
model = tf.keras.models.load_model("model_name")
labels = ["Tumor Cells", "inflammation", "connective tissue"]
patchwidth_px = 224
patchsize = 32
```

Plug-in your own AI

