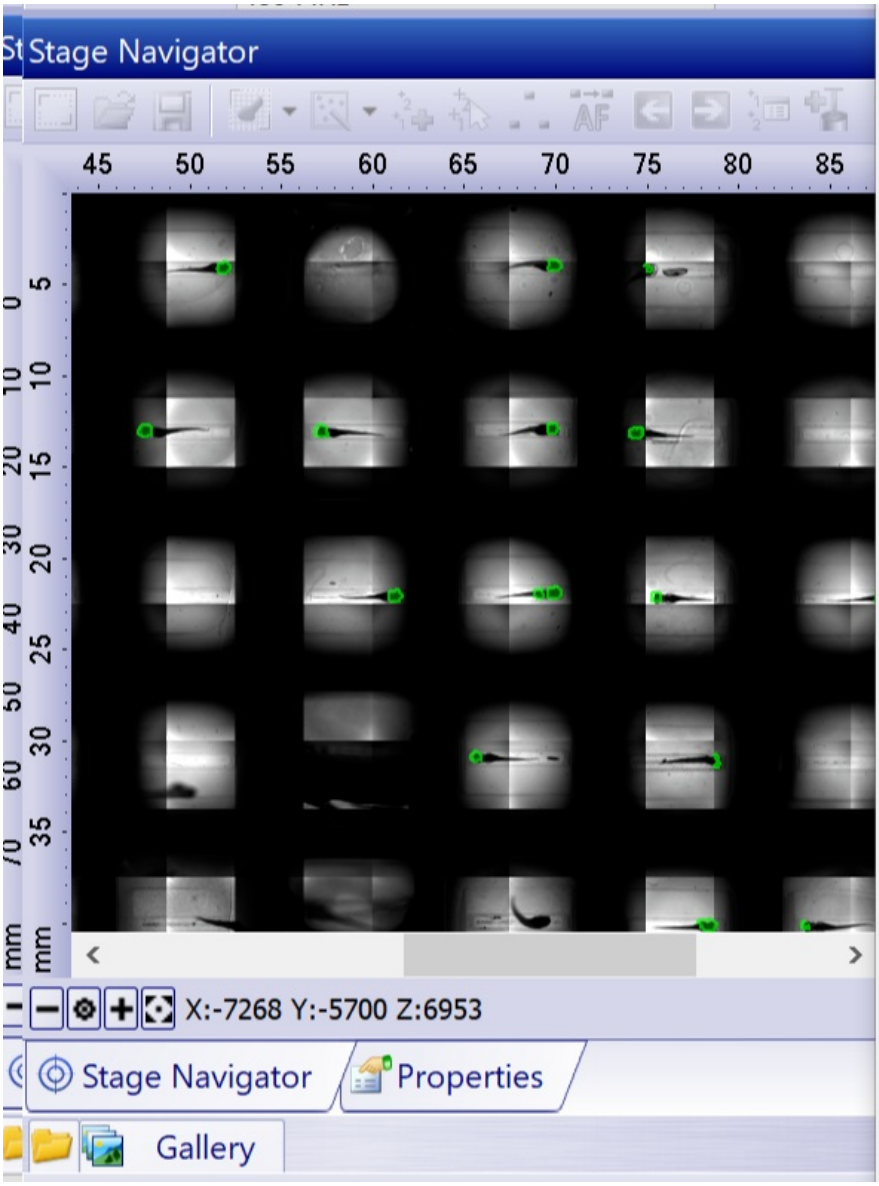
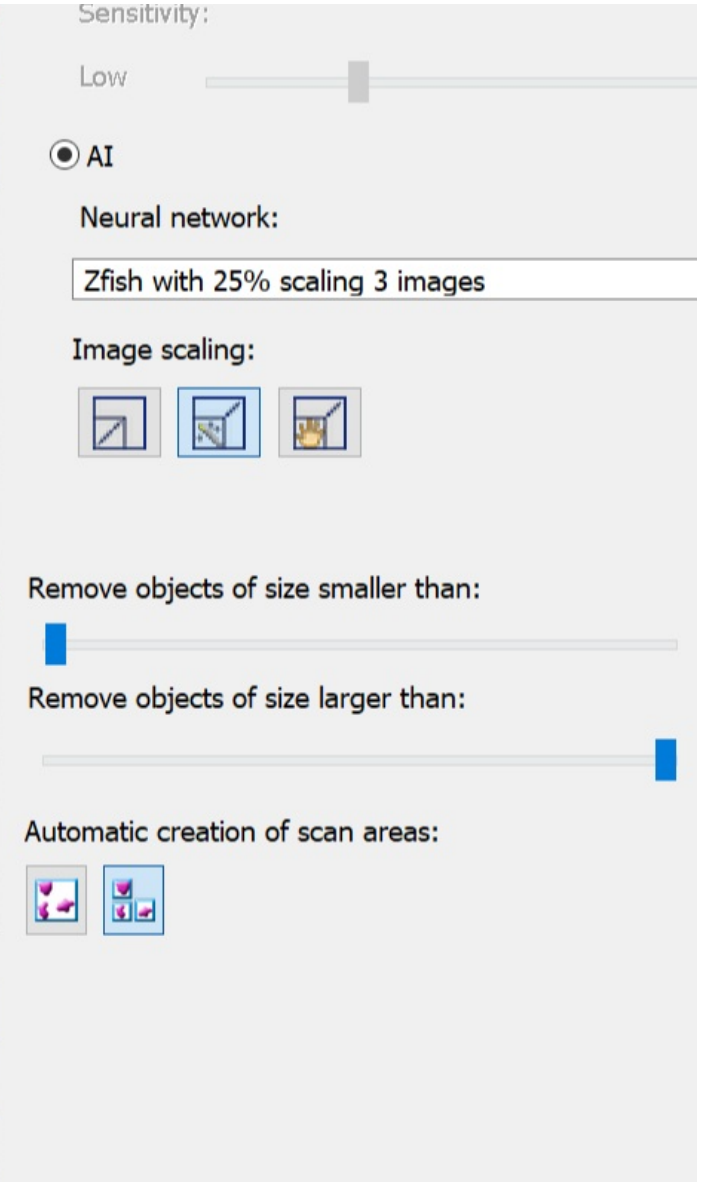
Olympus Spinning Disk - Automatic sample detection using pretrained NN

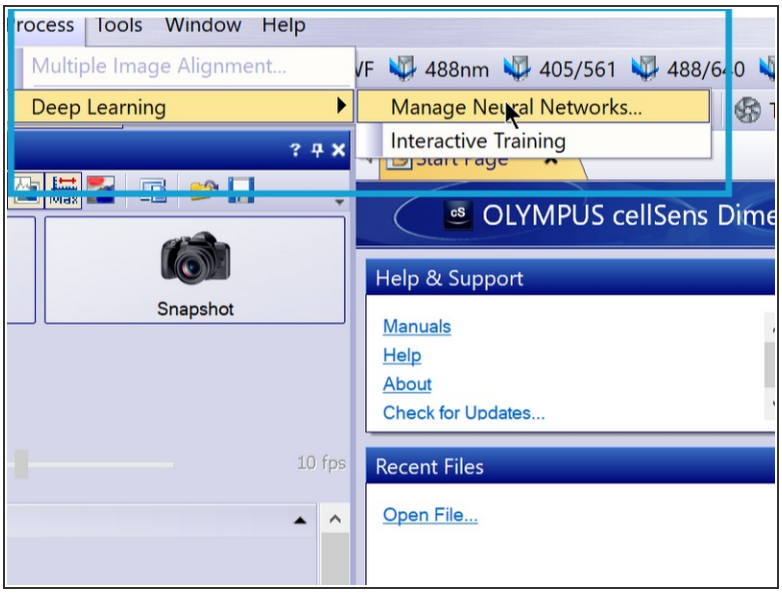
Olympus Spinning Disk - Automatic sample detection using pre-trained NN

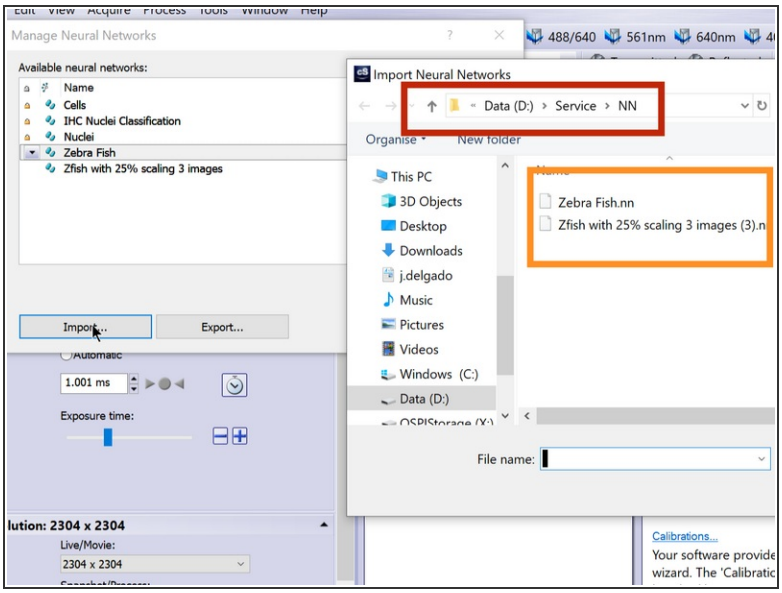
Written By: Joana Raquel Delgado Martins





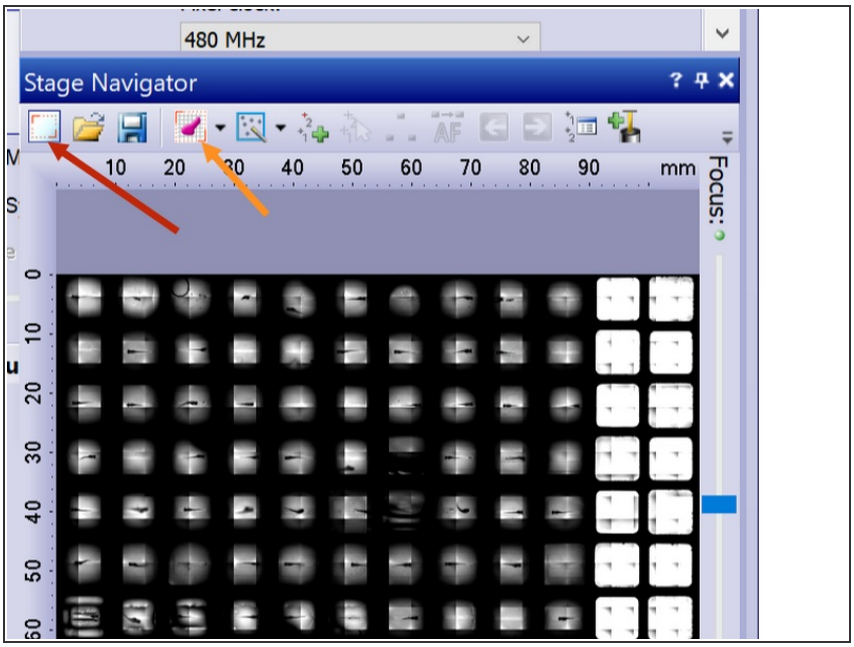
Step 1 — Load the NN





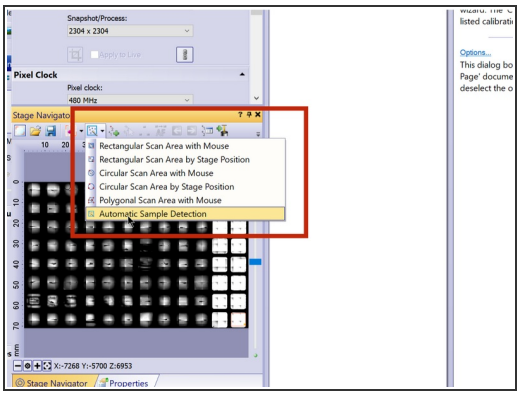
- Select menu Process>Manage Neural Networks.
- Load your NN from D:\Service\NN
  - eg Zebrafish - detects the whole fish
  - Zebrafish 25% scaling 3 images - detects only the head.

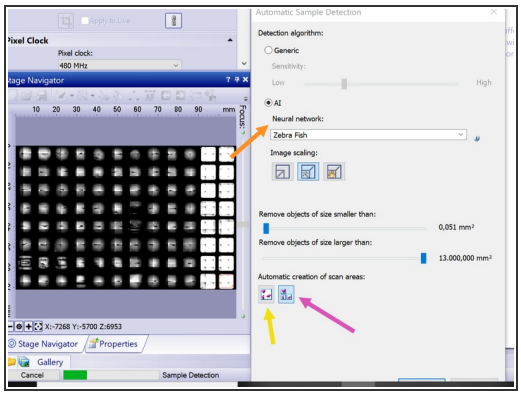
Step 2 — Acquire an Overview

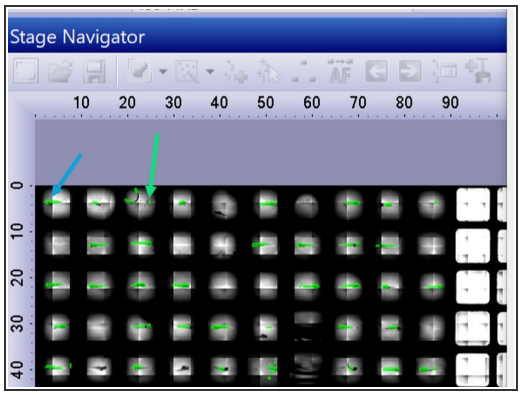


- Define your overview area here.
- Acquire your overview area (in brightfield mode) here.

Step 3 — Automated Sample detection





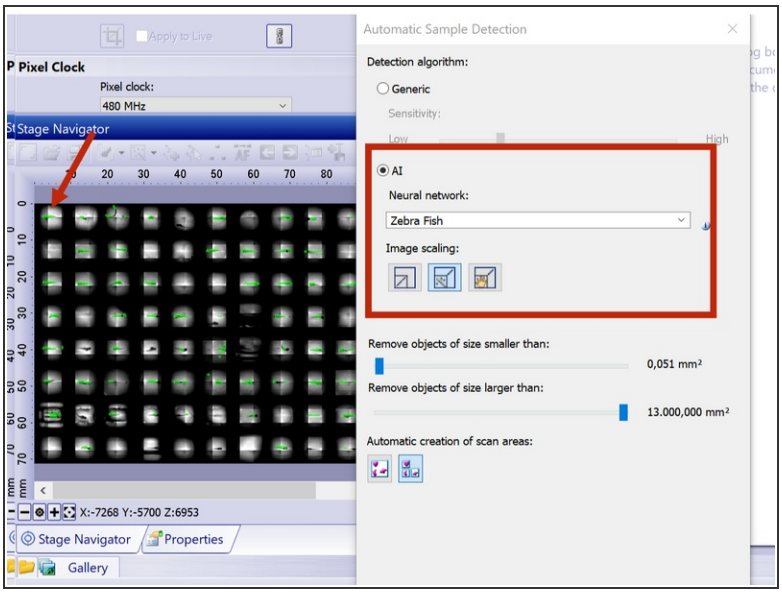


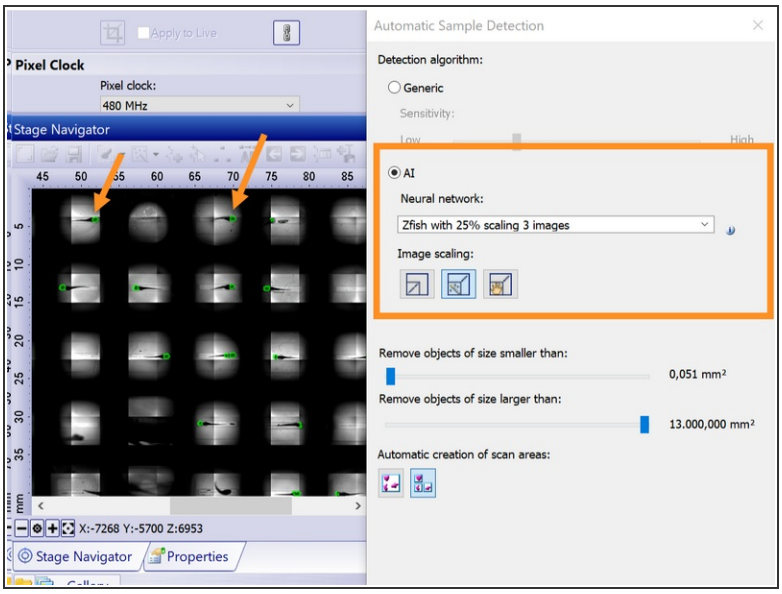
- Choose the correct objective to acquire your images.
- Select "Automated Sample detection" here.
- Select "AI" and the respective NN from the drop down menu. eg Zebrafish - detects the whole fish.
  - Select if you want to create 1 region / detected object.
  - Select if you want to create a single region including all detected objects.

ⓘ Wait for detection, this might take some minutes. Be patient.

- Your detections will be shown in green.
- You can filter detections by size in case too small (or too big structures are detected).

Step 4 — Available models



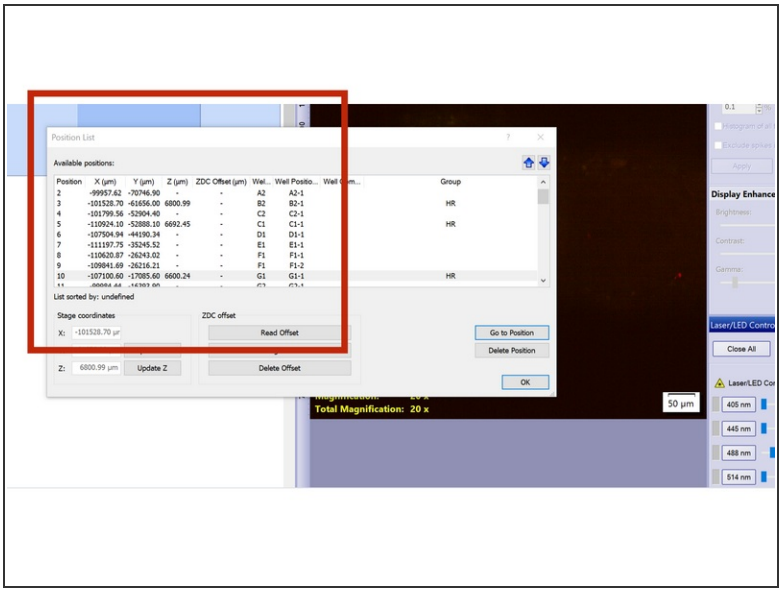


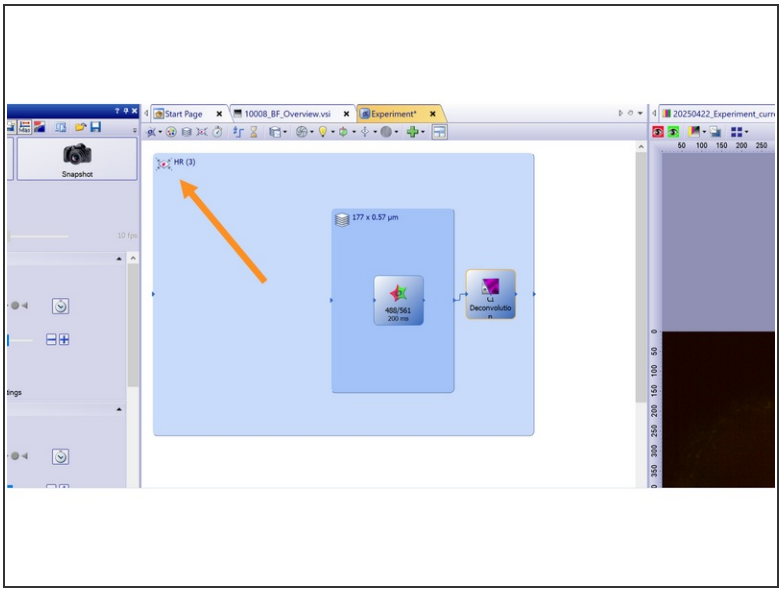
ⓘ Detect the whole fish - Choose the model "zebrafish".

ⓘ Detect only the zebrafish head - choose the model "zebrafish with 25% scaling 3 images".

- Press OK.

Step 5 — Position list





- A new position list will be created with your sample detections.
- Create your Experiment including a stage loop.
- Start you imaging!