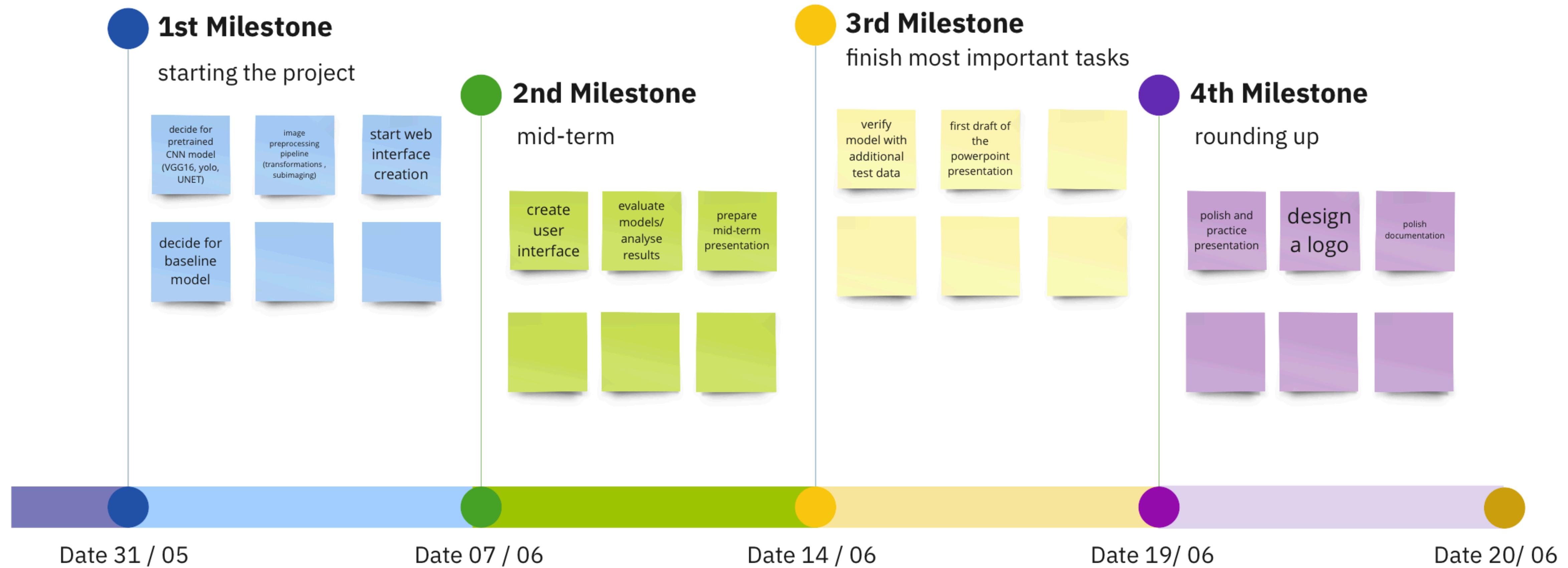


Project Update #1

Responsible Manager: Dominik

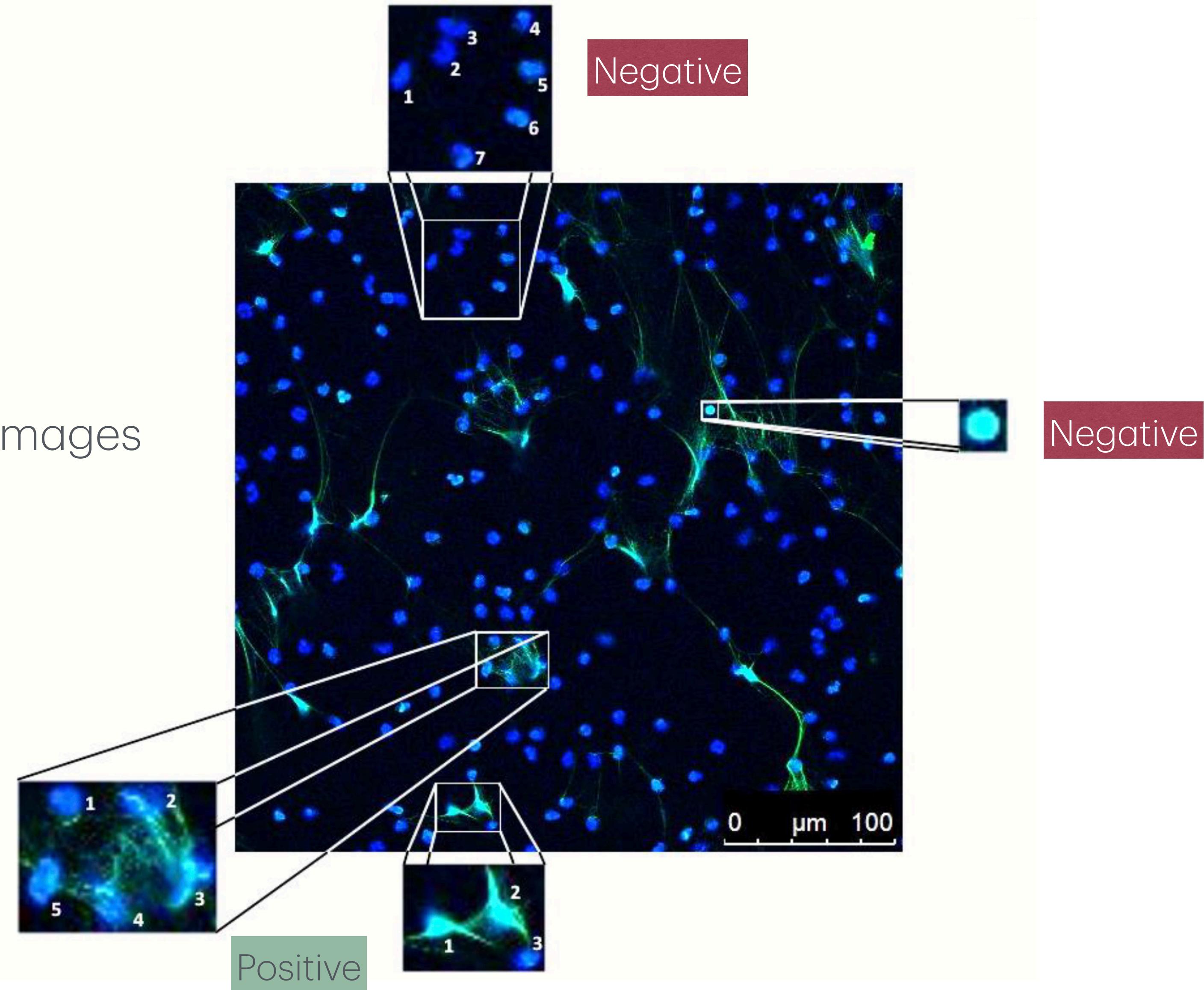
29.05.2024

Timeline



How does our data look like?

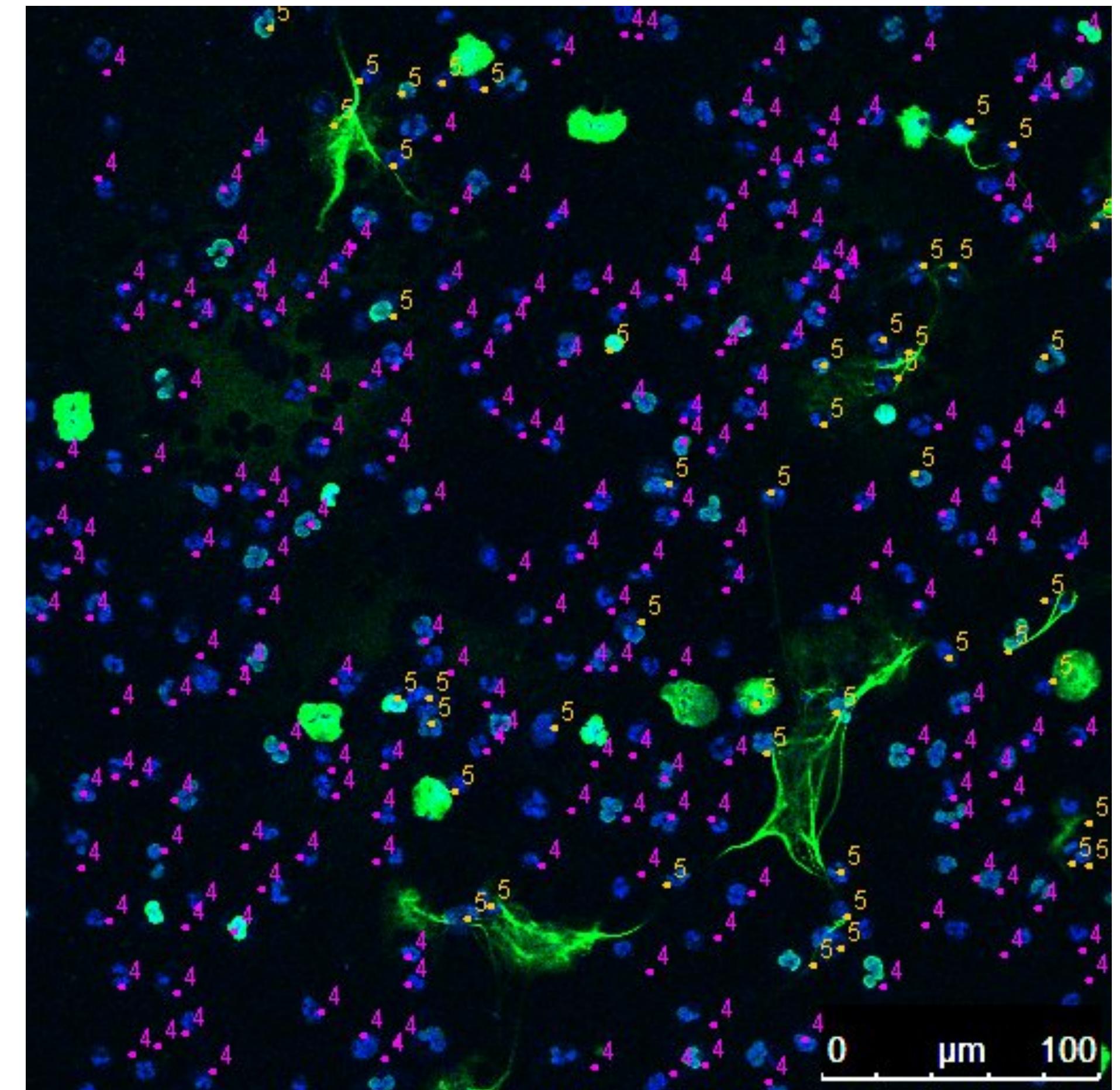
43 manually annotated images



Baseline models

Earlier attempts to automatise the NET counting

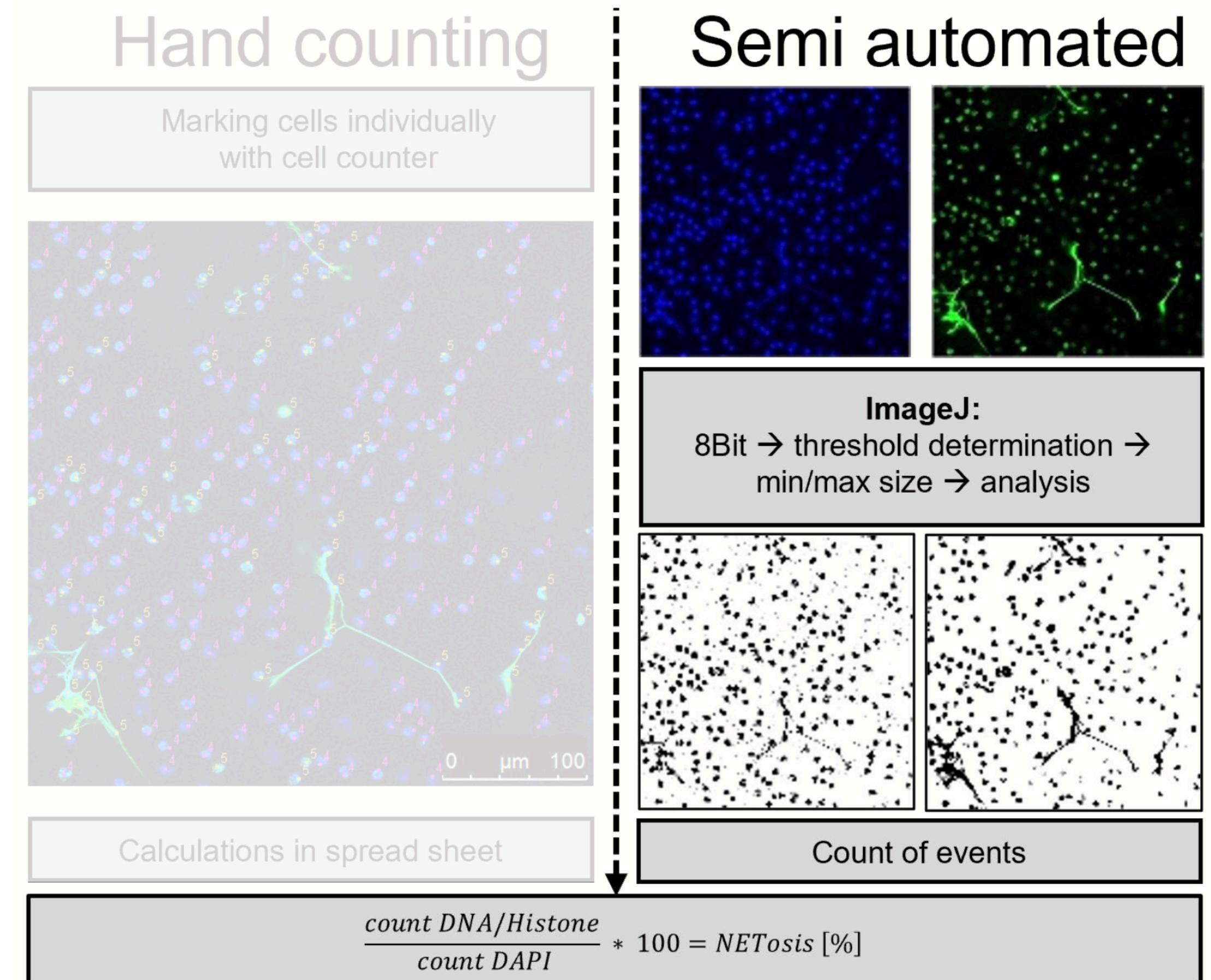
- Goal to reach: precision of hand counting



Baseline models

Earlier attempts to automatise the NET counting

- Goal to reach: precision of hand counting
- Baseline models:
 - Semi automated with ImageJ



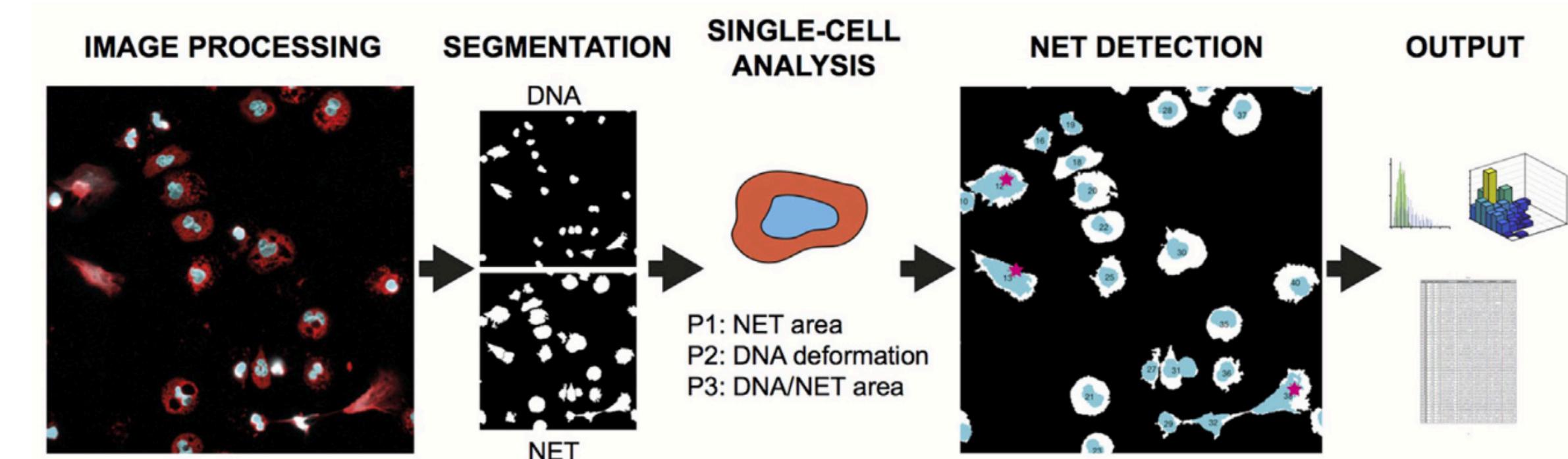
Baseline models

Earlier attempts to automatise the NET counting

- Goal to reach: precision of hand counting

- Baseline models:

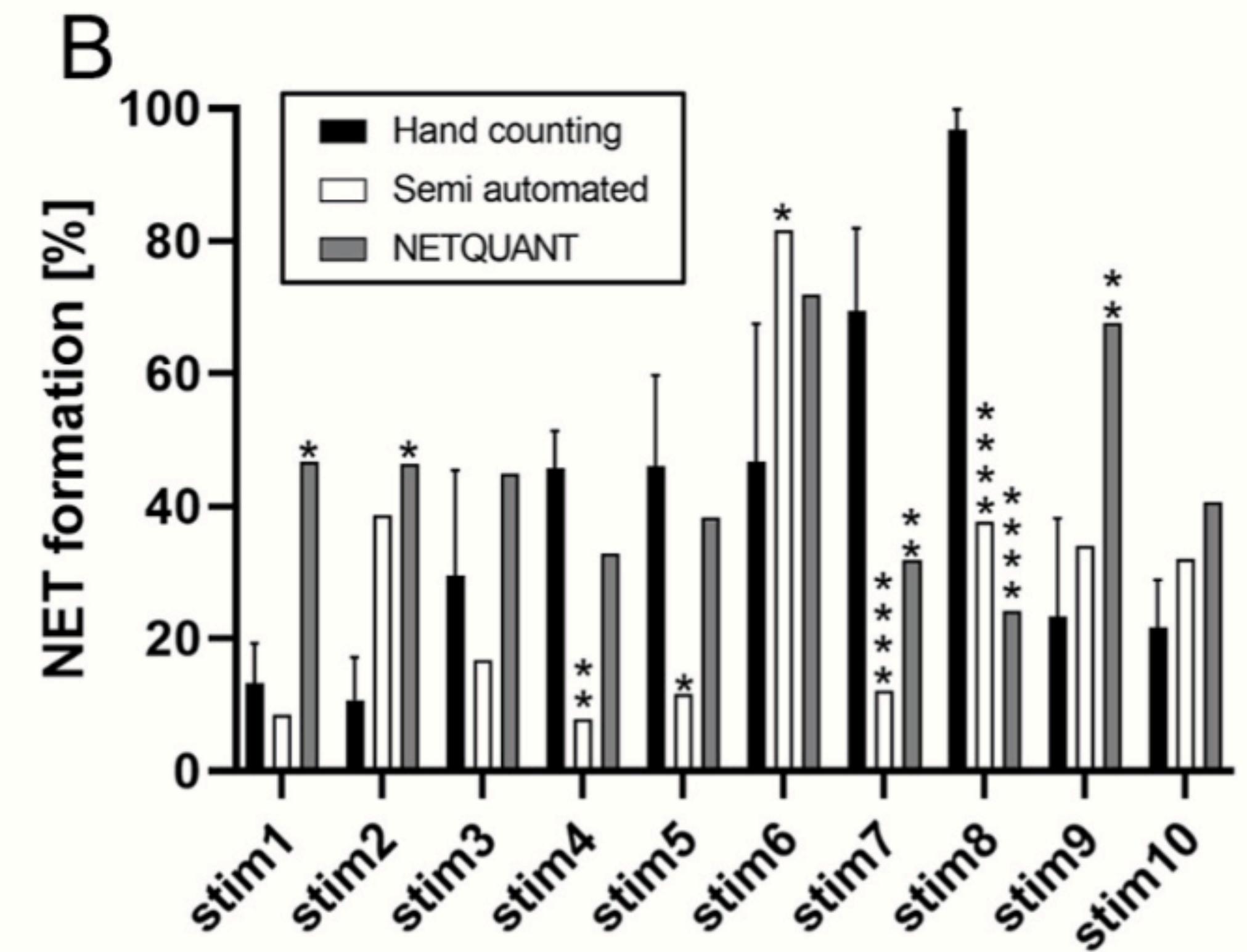
- Semi automated with ImageJ
- Fully automated with NETQUANT (MATLAB)



Baseline models

Earlier attempts to automatise the NET counting

- Goal to reach: precision of hand counting
- Baseline models:
 - Semi automated with ImageJ
 - Fully automated with NETQUANT (MATLAB)
- Overall poor performance of both models



Status modelling

VGG16

- Prediction pipeline works, but predictions are not good, yet
- Very long runtime (web server?)
- How to improve
 - Preprocessing (masking, use only the 488 channel)
 - Include more data
 - In parallel: explore UNET and RCNN