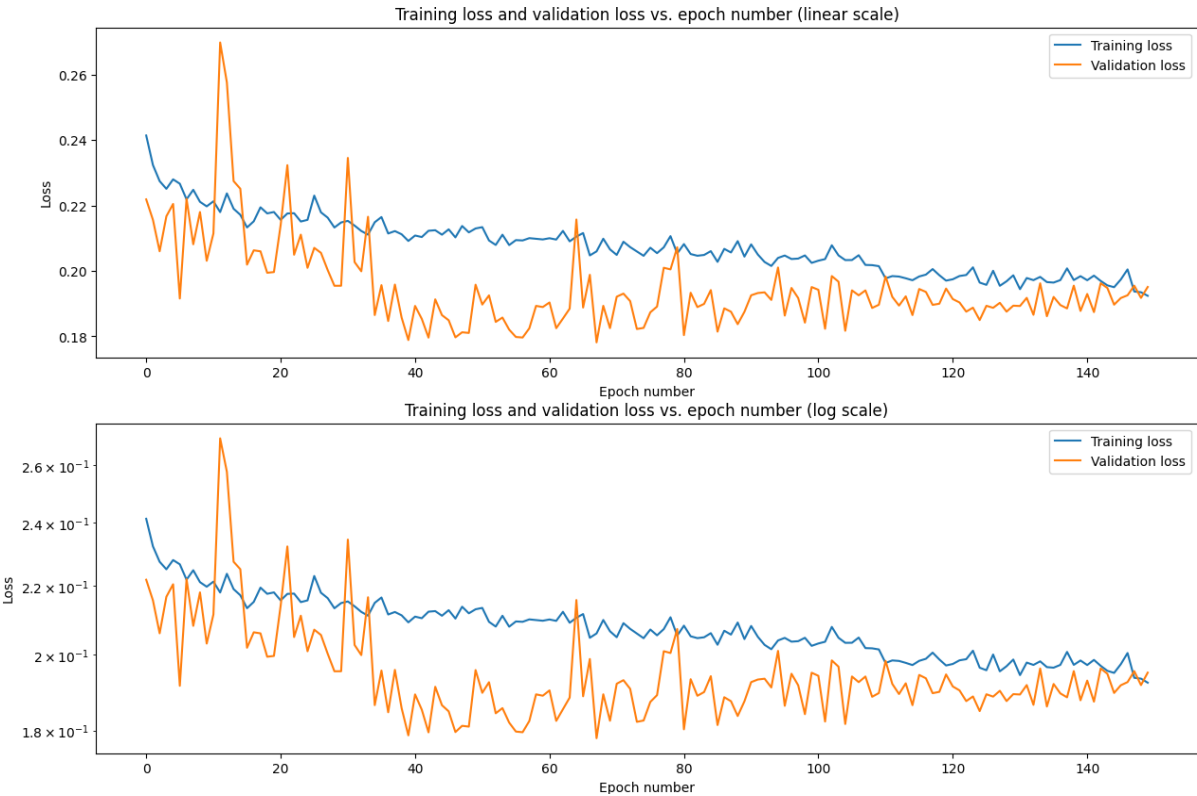
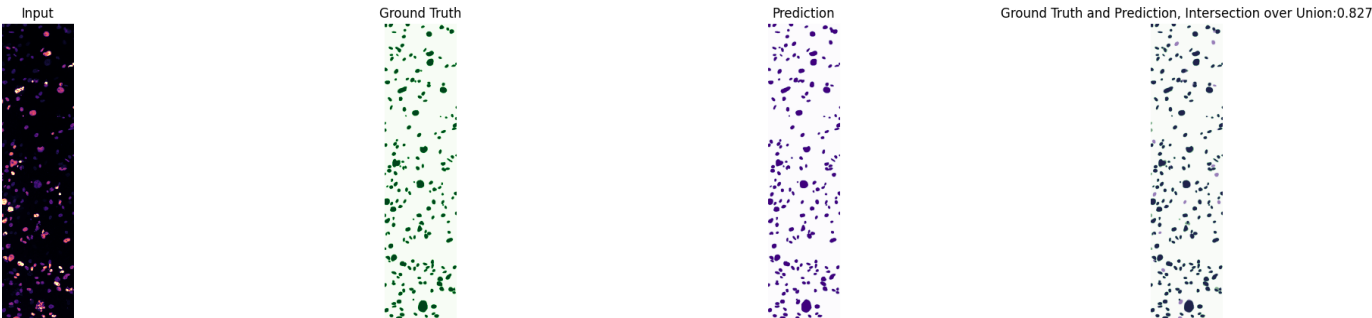


Quality Control report for Stardist 2D model
(StarDist_Cont_Grey_4_200_128_2_0.0003_Aug4_150epoch)
Date: 2024-11-11

Development of Training Losses



Example Quality Control Visualisation



Quality Control Metrics

| image # | Prediction v. GT IoU | false pos. | true pos. | false neg. | precision | recall | accuracy | f1 score | n_true | n_pred | mean_true_score | mean_matched_score | panoptic_quality |
|---------|----------------------|------------|-----------|------------|-----------|--------|----------|----------|--------|--------|-----------------|--------------------|------------------|
| 1 | 0.827 | 19 | 188 | 14 | 0.908 | 0.931 | 0.851 | 0.919 | 202 | 207 | 0.824 | 0.885 | 0.813 |
| 2 | 0.794 | 25 | 166 | 17 | 0.869 | 0.907 | 0.798 | 0.888 | 183 | 191 | 0.754 | 0.831 | 0.738 |
| 3 | 0.873 | 9 | 217 | 7 | 0.969 | 0.969 | 0.931 | 0.964 | 224 | 226 | 0.876 | 0.904 | 0.872 |
| 4 | 0.886 | 8 | 159 | 12 | 0.952 | 0.93 | 0.888 | 0.941 | 171 | 167 | 0.839 | 0.903 | 0.849 |
| 5 | 0.871 | 15 | 198 | 8 | 0.93 | 0.961 | 0.896 | 0.945 | 206 | 213 | 0.877 | 0.913 | 0.863 |

References:
- ZeroCostDL4Mic: von Chamier, Lucas & Laine, Romain, et al. "Democratising deep learning for microscopy with

ZeroCostDL4Mic." Nature Communications (2021).

- StarDist 2D: Schmidt, Uwe, et al. "Cell detection with star-convex polygons." International Conference on Medical Image Computing and Computer-Assisted Intervention. Springer, Cham, 2018.

To find the parameters and other information about how this model was trained, go to the training_report.pdf of this model which should be in the folder of the same name.