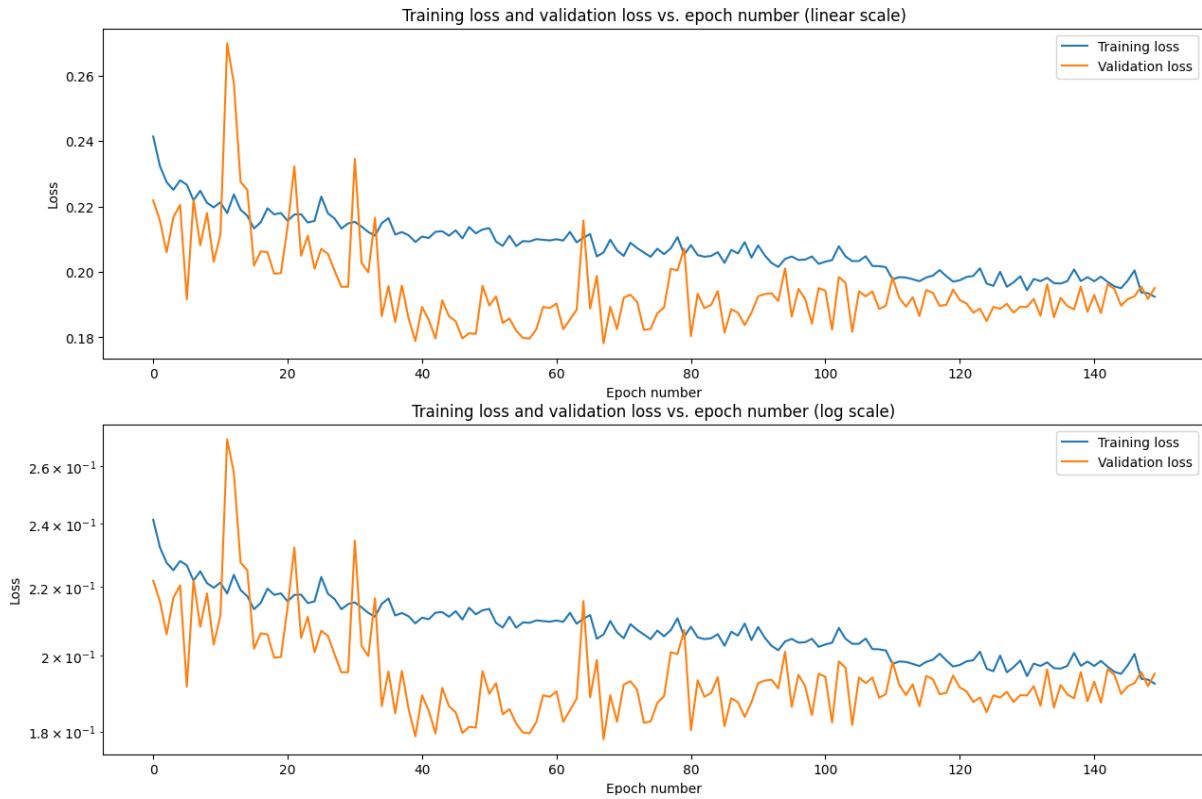


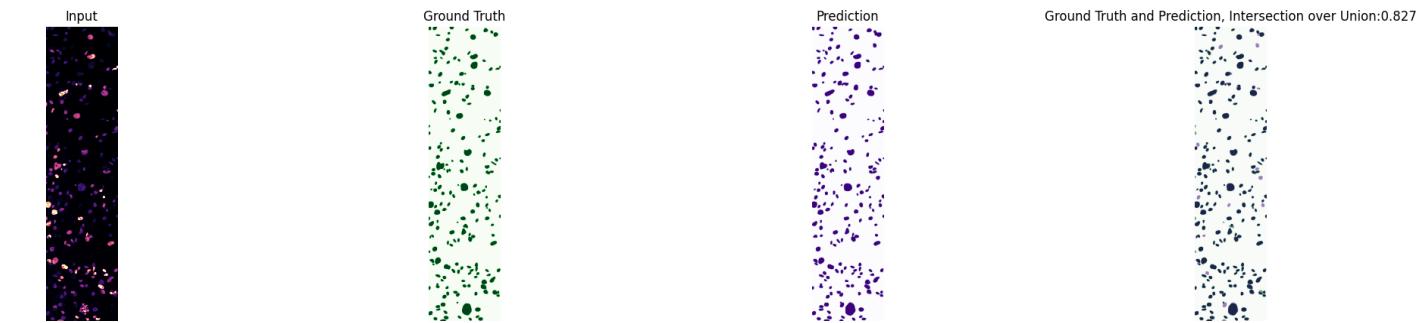
**Quality Control report for Stardist 2D model  
(StarDist\_Cont\_Grey\_4\_200\_128\_2\_0.0003\_Aug4\_150epoch)**

Date: 2024-11-11

### Development of Training Losses



### Example Quality Control Visualisation



### Quality Control Metrics

image #	Prediction GT IoU	false pos.	true pos.	false neg.	precision	recall	accuracy	f1 score	n_true	n_pred	mean_true_score	mean_matc_hed_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	0.961	0.934	0.964	224	226	0.876	0.904	0.872
4	0.886	8	159	12	0.952	0.938	0.881	0.941	171	167	0.839	0.903	0.849
5	0.871	15	198	8	0.931	0.966	0.895	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.**