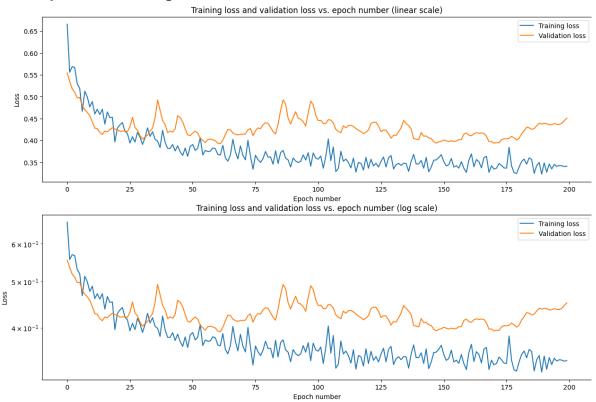
Quality Control report for Stardist 2D model

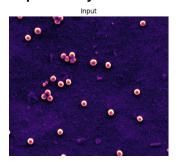
(My_Stardist_Model_Fine_Tuned_pretrained_fluo_v3)

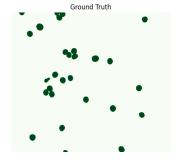
Date: 2023-11-27

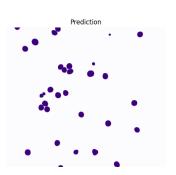
Development of Training Losses

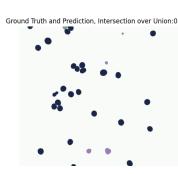


Example Quality Control Visualisation









Quality Control Metrics

imag e #	Prediction v. GT loU	false pos.	true pos.	false neg.	prec ision		accu racy	f1 scor e	n_tr ue	n_pr ed	mean_true _score	mean_matc hed_score	panoptic_q uality
1	0.851	5	27	1	0.84 4	0.96 4	0.81 8	0.9	28	32	0.892	0.925	0.832
2	0.861	7	23	0	0.76 7	1.0	0.76 7	0.86 8	23	30	0.935	0.935	0.811
3	0.872	3	14	1	0.82 4	0.93 3	0.77 8	0.87 5	15	17	0.881	0.944	0.826
4	0.876	1	10	1	0.90 9	0.90 9	0.83 3	0.90 9	11	11	0.874	0.962	0.874
5	0.942	0	7	0	1.0	1.0	1.0	1.0	7	7	0.937	0.937	0.937
6	0.811	2	5	0	0.71 4	1.0	0.71 4	0.83 3	5	7	0.943	0.943	0.786
7	0.665	6	13	2	0.68 4	0.86 7	0.61 9	0.76 5	15	19	0.797	0.92	0.704

imag e #	Prediction v. GT loU	false pos.	true pos.	false neg.	prec ision	recal I	accu racy	f1 scor e	n_tr ue	n_pr ed	mean_true _score	mean_matc hed_score	panoptic_q uality
8	0.587	4	17	7	0.81	0.70 8	0.60 7	0.75 6	24	21	0.639	0.902	0.682
9	0.641	7	22	5	0.75 9	0.81 5	0.64 7	0.78 6	27	29	0.762	0.935	0.735
10	0.687	6	21	5	0.77 8	0.80 8	0.65 6	0.79 2	26	27	0.725	0.898	0.711
11	0.481	29	31	6	0.51 7	0.83 8	0.47	0.63 9	37	60	0.753	0.899	0.575
12	0.541	25	39	10	0.60 9	0.79 6	0.52 7	0.69	49	64	0.708	0.889	0.614
13	0.675	8	34	10	0.81	0.77 3	0.65 4	0.79 1	44	42	0.702	0.909	0.719
14	0.862	3	34	3	0.91 9	0.91 9	0.85	0.91 9	37	37	0.83	0.903	0.83
15	0.605	18	46	13	0.71 9	0.78	0.59 7	0.74 8	59	64	0.695	0.892	0.667

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.