

Quality Control report for Cellpose 2D model (171121)
Date: 2021-11-18

Development of Training Losses

If you would like to see the evolution of the loss function during training please play the first cell of the QC section in the notebook.

Example Quality Control Visualisation



Quality Control Metrics

image	Prediction v. GT Intersection over Union	false positive	true positive	false negative	precision	recall
010050.tif	0.945	0.0	6.0	0.0	1.0	1.0
010060.tif	0.957	0.0	7.0	0.0	1.0	1.0
010040.tif	0.955	0.0	6.0	0.0	1.0	1.0
010070.tif	0.956	0.0	7.0	0.0	1.0	1.0
010020.tif	0.952	0.0	7.0	0.0	1.0	1.0
010030.tif	0.94	0.0	6.0	0.0	1.0	1.0
010000.tif	0.957	0.0	6.0	0.0	1.0	1.0
010010.tif	0.952	0.0	7.0	0.0	1.0	1.0
020070.tif	0.93	0.0	7.0	0.0	1.0	1.0
020050.tif	0.884	0.0	6.0	1.0	1.0	0.857
020020.tif	0.938	0.0	6.0	0.0	1.0	1.0
020040.tif	0.931	0.0	7.0	0.0	1.0	1.0
020010.tif	0.945	0.0	5.0	0.0	1.0	1.0
020030.tif	0.726	0.0	5.0	2.0	1.0	0.714
020000.tif	0.89	0.0	5.0	1.0	1.0	0.833
020060.tif	0.925	0.0	5.0	1.0	1.0	0.833

References:

- ZeroCostDL4Mic: von Chamier, Lucas & Laine, Romain, et al. "ZeroCostDL4Mic: an open platform to simplify access and use of Deep-Learning in Microscopy." BioRxiv (2020).
- CARE: Weigert, Martin, et al. "Content-aware image restoration: pushing the limits of fluorescence microscopy." Nature methods 15.12 (2018): 1090-1097.

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.