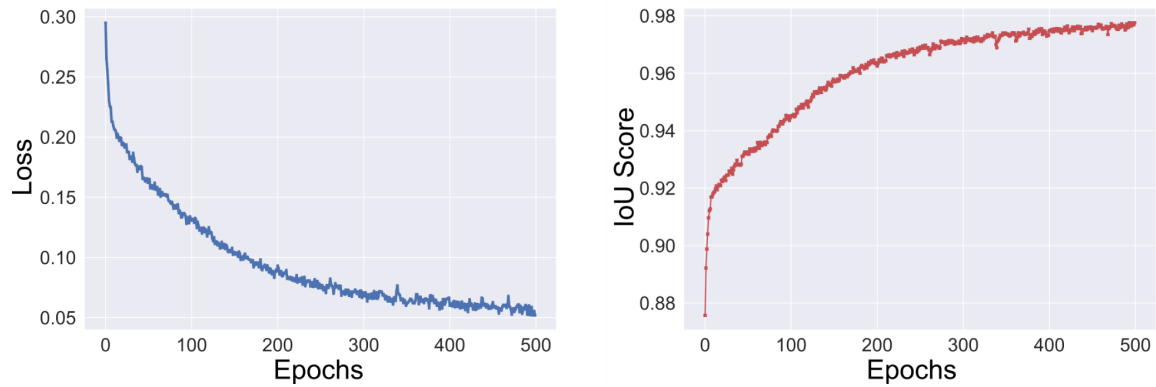


### Supplementary Figure 1

We composed the model with Adam optimizer and the learning rate as 0.0001. The loss consists of linear combinations of focal loss, dice loss, and binary cross entropy. The metric is the IoU score. After training with 500 epochs and a batch size of 16, the model converges to a stable status (loss to 0.05 and IoU score to 0.98).



### Supplementary Fig. 1. The training run process of the deep neural network model.

Loss function changes over epochs are shown on the left-hand side. Intersection over union (IoU) metric changes over epochs are shown on the right-hand side.