

**Supplementary Table 3: Hyperparameter settings for our convolutional neural network classifier training experiments. Depending on the size of the training dataset, the model training duration ranged from 2 hours to 16 hours.**

<b>Hyperparameter</b>	<b>Description</b>	<b>Value</b>
Epochs	Number of training iterations	100
Learning rate	The size of the steps taken by the model to optimize its parameters during training.	0.0001 for generator and discriminator
Batch-size	Number of images passed in a batch to the model during each training iteration.	128
Optimizer parameters	The optimization algorithm for updating neural network weights during training.	Adam( $\beta_1=0.9$ , $\beta_2=0.999$ )