

**Supplementary Table S1. Hyperparameters used for training**

Architecture	Learning Rate	Batch Size*	Weight Decay**	Momentum	Learning Rate Schedule	Epochs	Initializer	Computation time for 10 Epochs [hours]	Trainable Parameters
AlexNet	0,01	70	0,0005	0,9	0.9 every 4 Epochs	20	Xavier	1 1/2	226.106.790
GoogLeNet	0,01	70	0,0001	0,9	0.9 every 4 Epochs	20	Xavier	1 1/2	7.051.862
VGG (11 Layers)	0,001	25	0,0001	0,9	0.9 every 4 Epochs	30	Xavier	9 2/3	562.958.765
Inception-v3	0,05	70	0,0001	0,9	0.9 every 4 Epochs	50	Xavier	2 1/2	23.124.939
ResNet (101 Layers)	0,01	25	0,0001	0,9	0.9 every 4 Epochs	20	Xavier	4 1/3	42.631.917
Inception-ResNet-v2	0,05	25	0,0001	0,9	0.9 every 4 Epochs	20	Xavier	6 2/3	54.644.911

\* Maximum Batch Size due to limited RAM

\*\* Weight Decay factor that penalizes trained weights in order to reduce overfitting