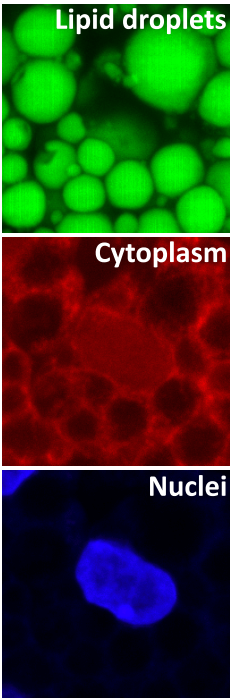
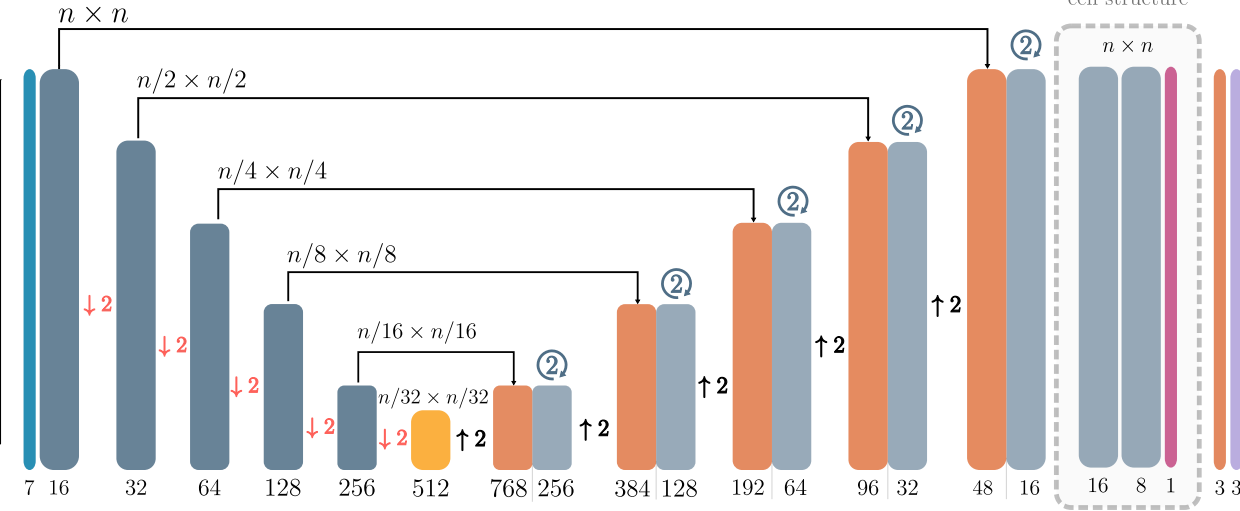
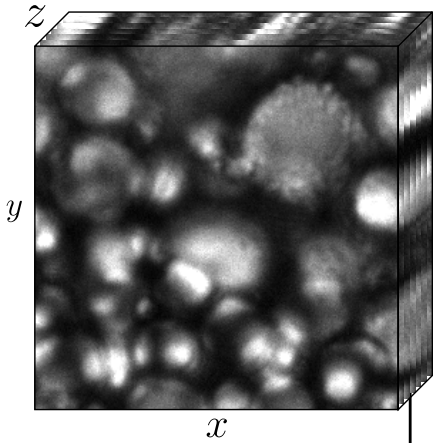


Virtually stained



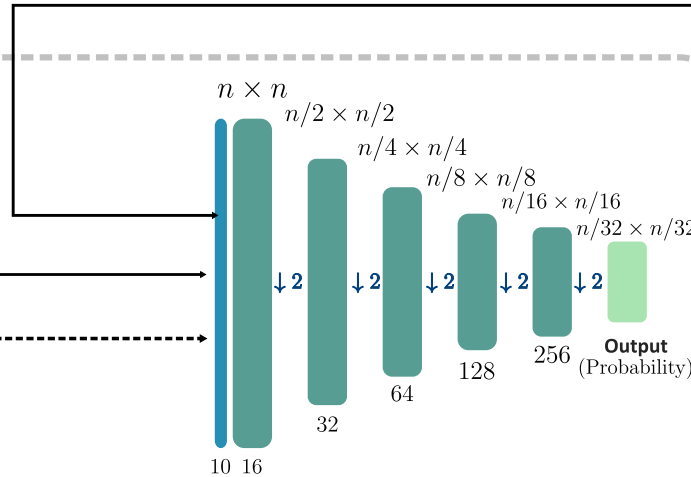
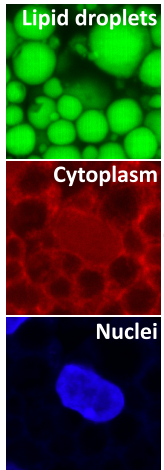
Generator

Input: Brightfield images



Discriminator

Fluorescence targets



Convolutional block: Conv 4×4 + LRelu + InstNorm*
 $\downarrow 2$ Conv 4×4 (stride of 2) + LRelu + InstNorm*
 *(with no learnable parameters)

- Normalization layer
- Encoder convolutional block:
- ResNet block (with Conv 3×3 + LRelu + InstNorm)
- Concatenation layer
- $\downarrow 2$ Maxpooling 2×2
- Conv 3×3 + LRelu + InstNorm
- $\uparrow 2$ Bilinear interpolation
- Conv 1×1 (with no activation function)
- Denormalization layer