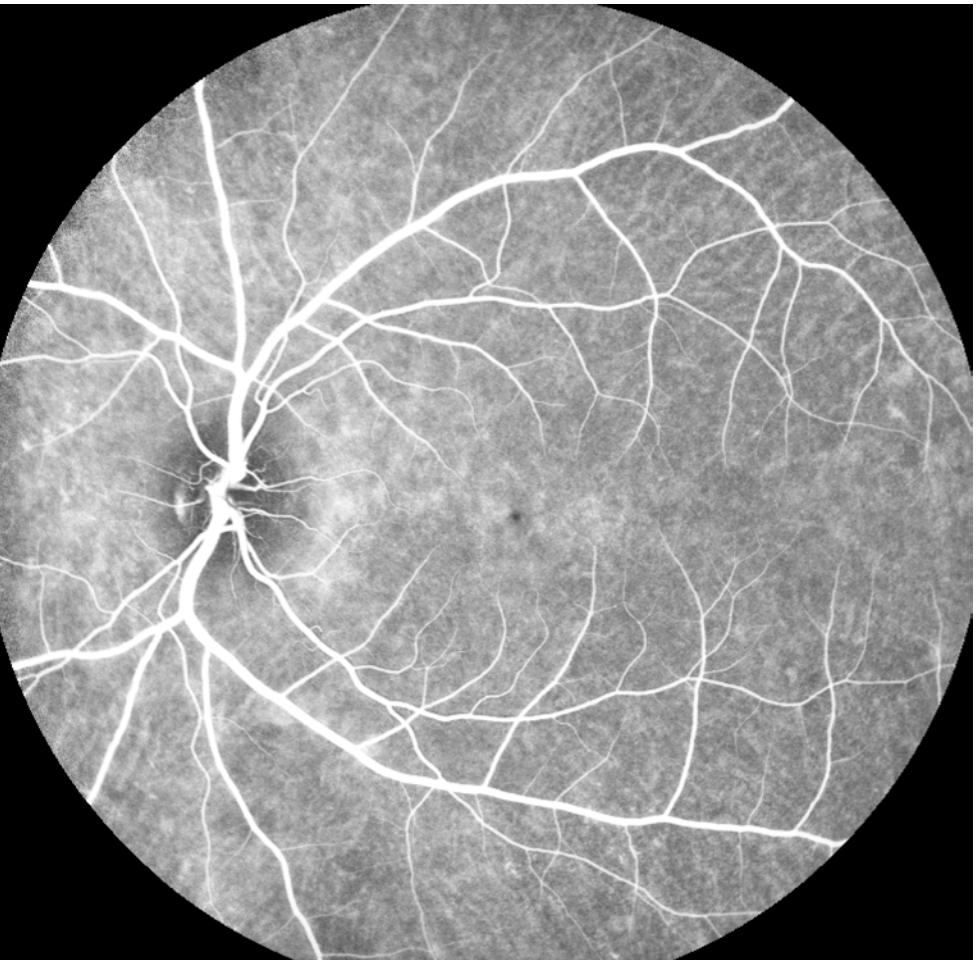
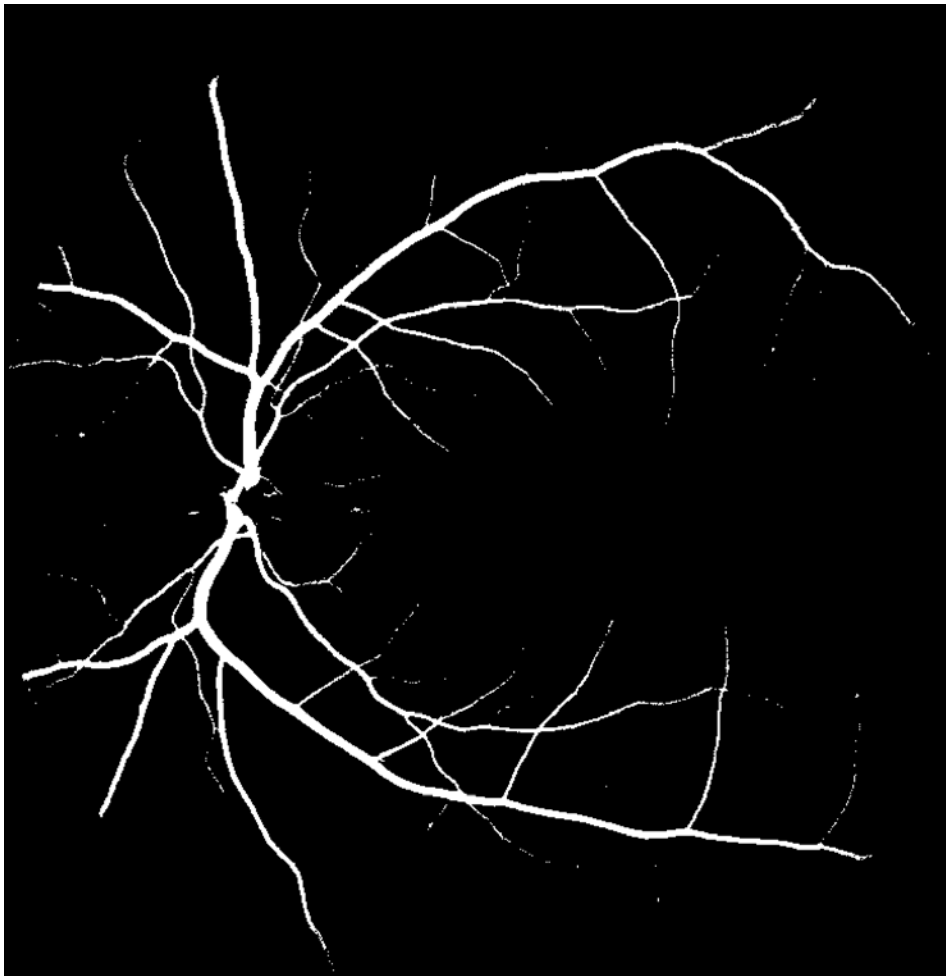
Cyno200188 V1/2minPost

Imaging with 8-bit camera, i.e., the pixel intensity range is 0-255 [AU]

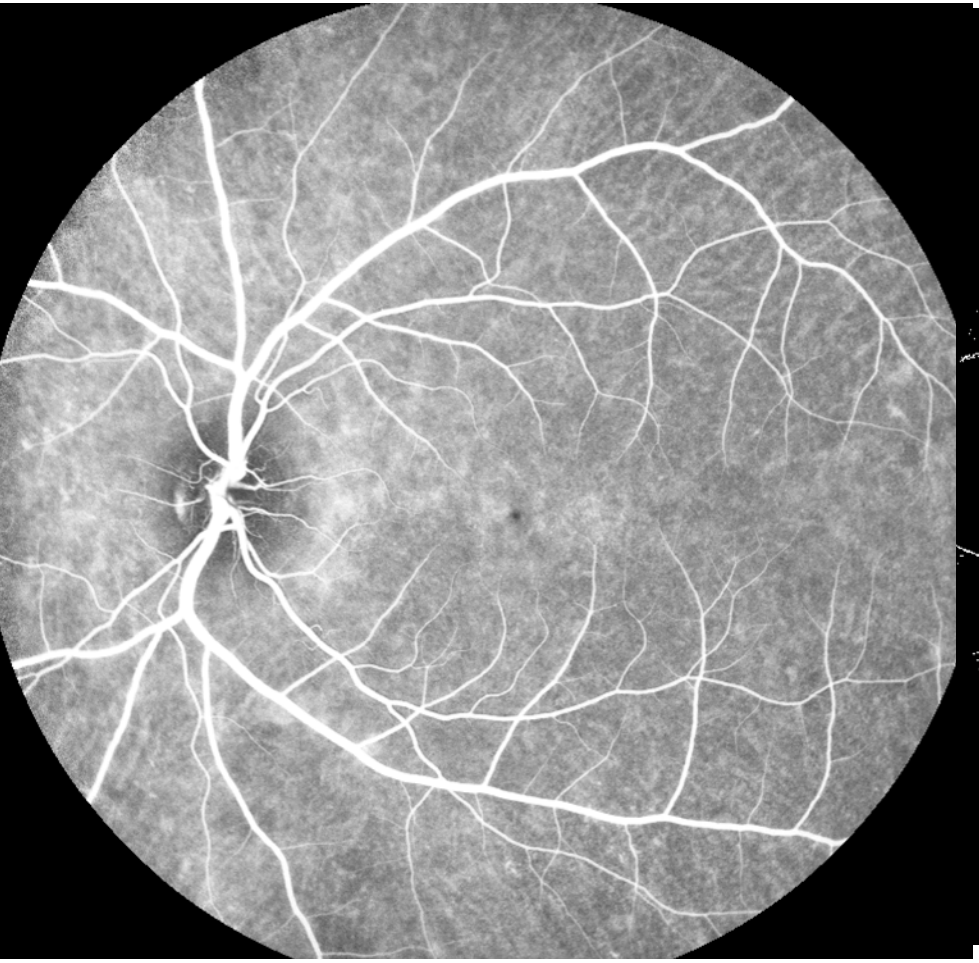


Pixels with intensity above 240 [AU]

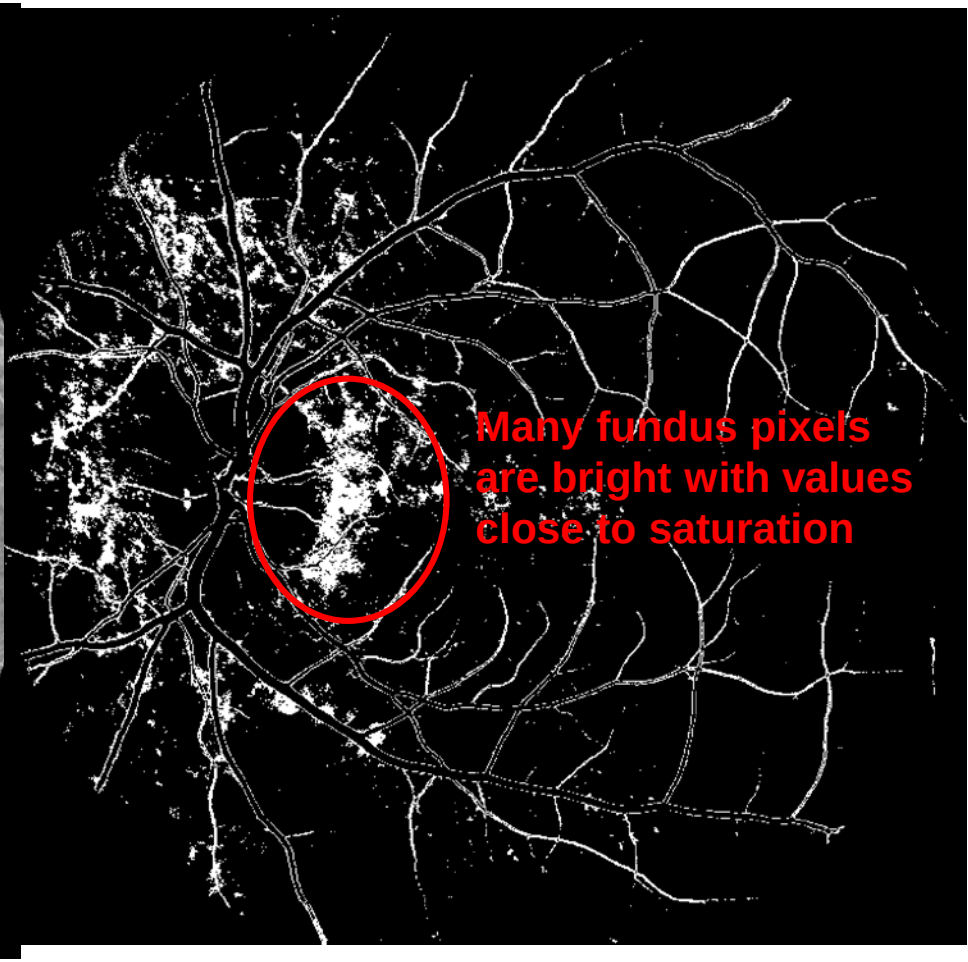


Cyno200188 V1/2minPost

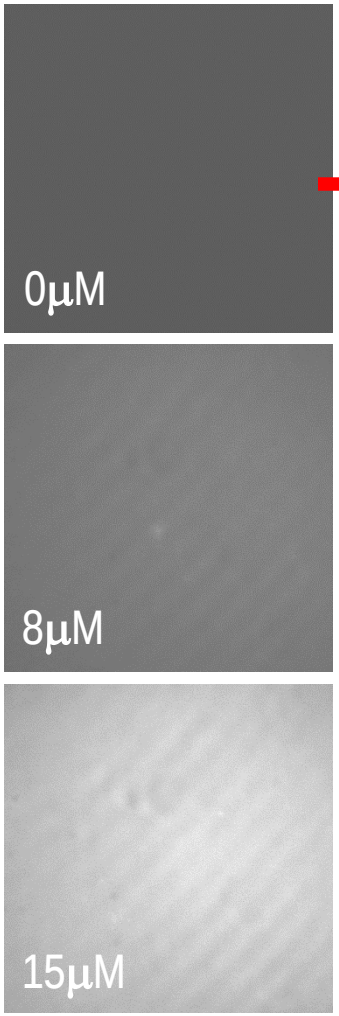
Imaging with 8-bit camera, i.e., the pixel intensity range is 0-255 [AU]



Pixels with intensity in range 200-240 [AU]



Noise model based on a camera calibration



$$\sigma^2 = \sigma^2_{dark} + \sigma^2_{shot}$$

$$\sigma_{shot} = \gamma\sqrt{I}$$

$$\beta = \gamma^2$$

$$\sigma_{dark}$$

$$\sigma^2_{Model} = \sigma^2 - \sigma^2_{dark} = \sigma^2_{shot} = \beta(I - I_0)$$

$$\sigma^2 = \sigma^2_{dark} + \beta \cdot (I - I_0)$$

slope = β