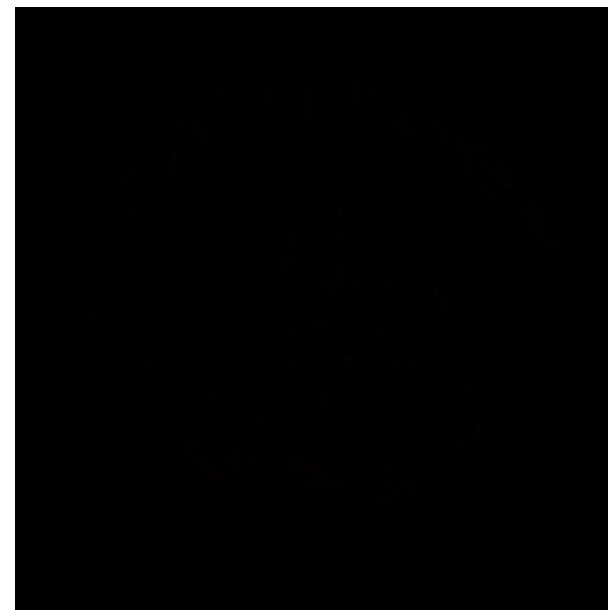
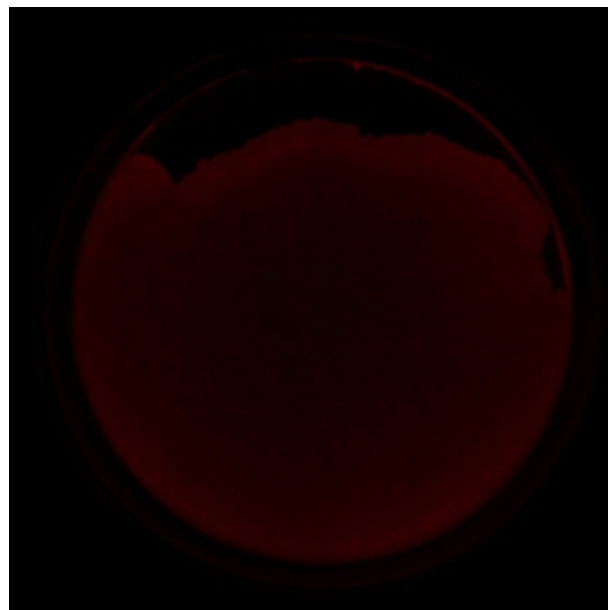


RFP plate

GFP plate

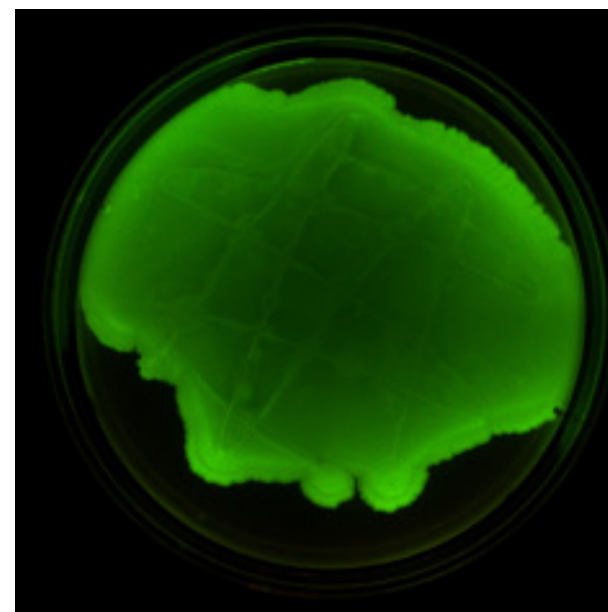
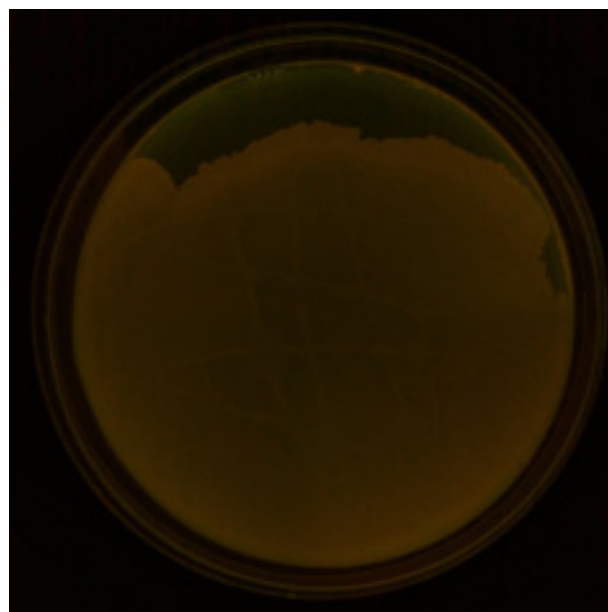
### RFP toplight preset

Emission filter: 630 nm  
Excitation wavelength: 525 nm  
Rel. exposure length: 150 units  
Illumination from top of sample  
with black background



### GFP toplight preset

Emission filter: 530 nm  
Excitation wavelength: 465 nm  
Rel. exposure length: 15 units  
Illumination from top of sample  
with black background

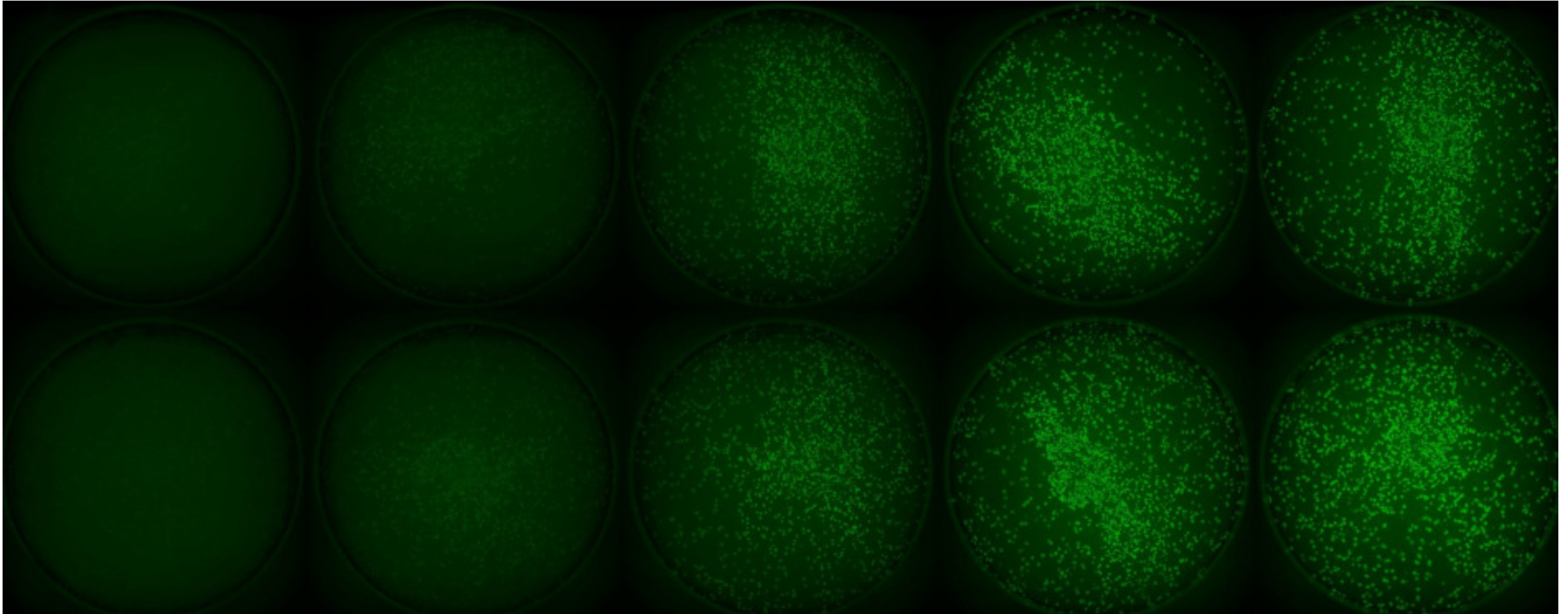


Up to 3 filters can be installed in each robot – standard configuration shown to the left (setup for red and green fluorescent proteins leaving one filter slot empty).

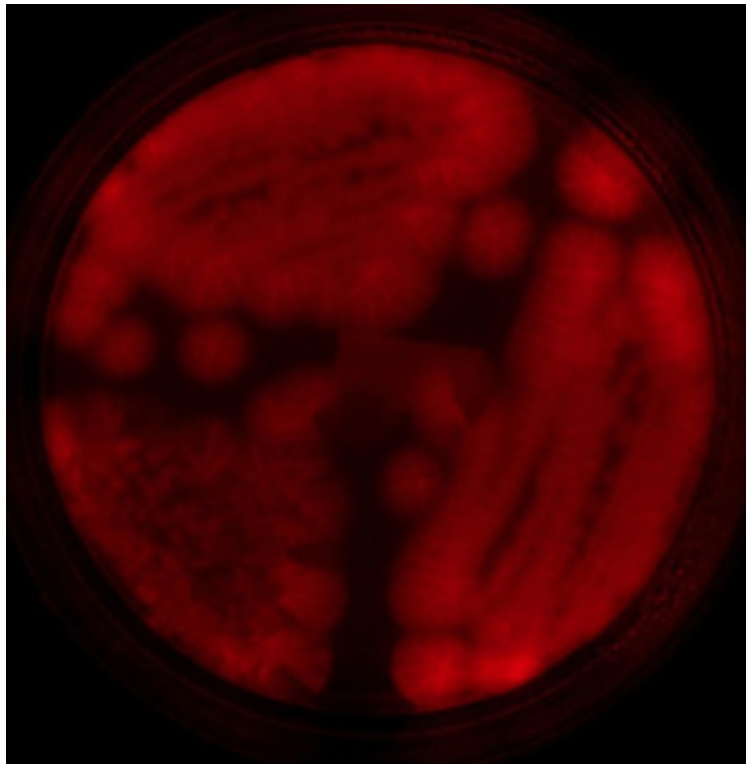
Measurements are relative unless a known reference ladder is also imaged and used to normalize intensity.

The signal to noise ratio and overall sensitivity is dependent on a multitude of factors including colony density and specific protein excitation/emission.

Reference ladder with transformants expressing increasing levels of GFP from left to right captured with the same exposure time



3 different fungal transformant strains expressing RFP streaked on a plate



Exposure can be increased after image capture to bring out the signal for visual assessment even if it is not immediately visible in the raw image

