



Supplementary Figure S1. Growth curves of *C. merolae* cells. OD was acquired at $\lambda = 680$ nm and 30 min intervals. The initial OD was 0.01 and that culture was carried for 7 days, out of which 140 hours were presented. Grey area represents standard deviation of the mean value (black line), calculated from at least three sets of acquired curves. Four light intensities were applied (25 , 50 , 100 and $250 \mu\text{mol photon m}^{-2} \text{s}^{-1}$) in combination with three monochromatic LED sources (blue, yellow and red) and white control.