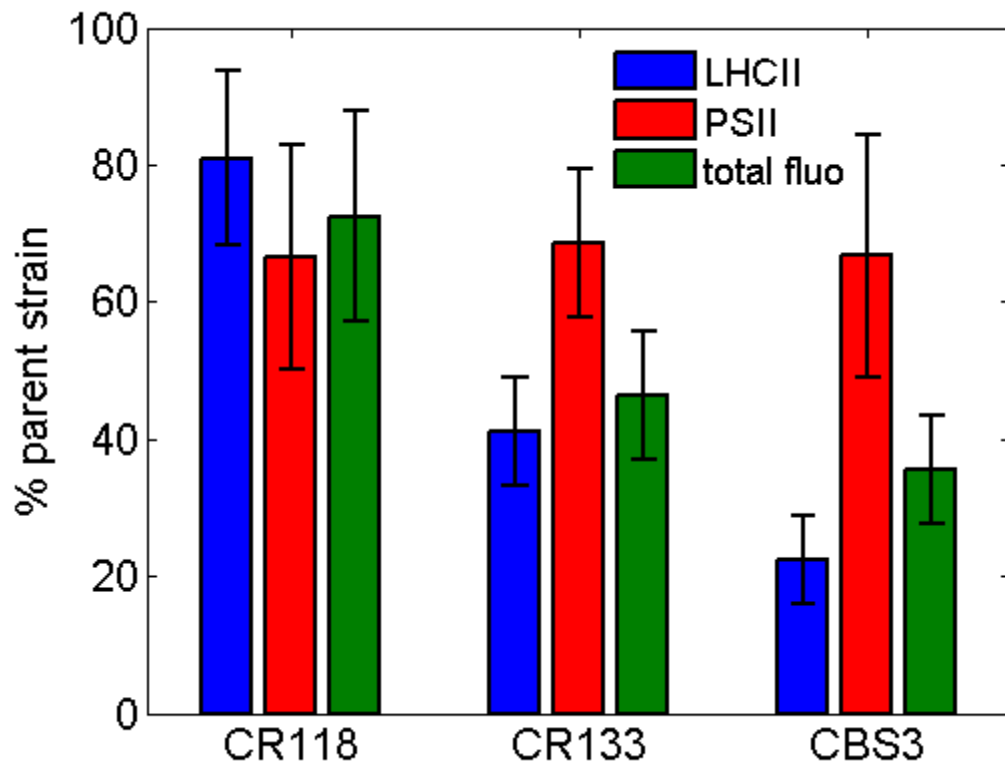


Analysis of *Chlamydomonas* mutants

Aaron Collins

11/01/2012



Similar to our efforts last year, CC2677 and CBS3 cells were cultured from plates to liquid TAP media supplemented with 100 ug/ml arginine. The cells were incubated in continuous light at ~24C for 3 days before being washed (3x) in HS media and finally cultured in HS media for 4 days before imaging.

A total of 176 cells were analyzed. Analysis by MCR gave two components that we ascribe to LHCII and predominantly PSII (can't rule out some PSI emission that we can't separate). That data are normalized by dividing the component value for the mutant by the parent strain (CC424 for CR118 and CR133 and CC2677 for CBS3). This allows us to compare the CBS3 and the transgenic lines directly even though the data were acquired on separate days and even if the microscope alignment was not identical.

I have also include the total fluorescence as a % of parent strain on the plot. To illustrate that the mutants are less bright overall.