

## COLOR CODING KEY

Spectrophotometry Measurements

Construct Group

Plasmid Group

Interlab

Cell Culture/Plating

Biobrick Group

Cyanobacteria Transformation Group

Experimental Verification

Plasmid & Construct Design Group

### Week 13

**August 27, 2018**

Experimental Verification (Elon)

- Induced Cyanobacteria with IPTG and added 75  $\mu$ L of HEPES for buffer
- Measured OD at 1.141, 1.167

**August 28, 2018**

Cyanobacteria Transformation Group (Stephanie)

- Transformed cyanobacteria with 8/4 from 8/1 (UTEX Collier 7/23 Culture 1) with psbA2 again
  - Used 3  $\mu$ L of DNA

**August 29, 2018**

Experimental Verification (Elon)

- Sucrose assay for cscB

Cyanobacteria Transformation Group (Dominika)

- Plated transformed cyanobacteria

**August 30, 2018**

Biobrick Group (Karthik/Matt/Nat)

- PCR and PCR purify: cpc, cpc560, idiA, and psbA2
- Digested PCR products in EcoRI+PstI

**August 31, 2018**

Experimental Verification

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Spec reading at 510 nm

Water blank	0	0	0
Glucose	1.048	1.074	1.052
Starch Acetate		0.049	0.066
Starch Fructosidase		0.14	0.145
Cyano Acetate		0.000	0
Cyano Sucrose		0.005	0

Analyte	Analyte (g/L)
Starch glucose	0.027
Starch Sucrose	0.084
Cyano glucose	0.000
Cyano sucrose	0.002