

## 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 14

### September 3, 2018

#### Cyanobacteria Transformation Group (Nat)

- Made solution of BG-11 for liquid inoculations
  - 46 mL of BG-11 media
  - 9.2  $\mu$ L of spectinomycin and 9.2  $\mu$ L of streptomycin
  - 460  $\mu$ L of hepes and 460  $\mu$ L of sterilized sodium bicarbonate solution
- Liquid inoculation of idiA colonies from plate

#### Plasmid Group (Nat)

- Replenished *E. coli* with 2 mL of culture

#### Experimental Verification (Elon)

- Sucrose assay

### September 6, 2018

#### Biobrick Group (Karthik/Matt/Nat)

- PCR products from August 30th nanodrop
  - All good except psbA2 which had bad curve
- pSB1C3 shipping vector digested in EcoRI+PstI+DpnI
- Ligation of pSB1C3 and cpc560
  - For ligation, used 0.5 mL biobrick and 2 mL vector for 2.5 biobrick-vector molar ratio

### September 7, 2018

#### Biobrick Group (Matt/Nat)

- Ligation products from yesterday transformed into *E. Coli* and plated on LB+CAM

### September 8, 2018

#### Biobrick Group (Karthik)

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- Cpc560 plates from yesterday all grew!
- Cpc560 colonies re-streaked on LAB+CAM plates
- Made 300 mL LB+CAM media