

# iGEM 2018: NUS Singapore-A

## WetLab Group 2\_June 2018 Logbook

2018.06.01

- Transformation into BL21 (DE3) & Plating
  - Brep-RFP-LVA
  - J23100-RFP-Spinach
- RFP level measurement (8hr characterisation; hourly reading)
  - Bind-RFP-LVA

2018.06.07

- Plasmid construction
- Gel electrophoresis & extraction
- Assembly
- Transformation into Beta10
  - Bind-RFP-YbaQ
  - Brep-RFP-YbaQ

2018.06.08

- Plasmid construction & Gel electrophoresis
  - Bind-RFP-AAV
  - Bind-RFP-DAS
  - Brep-RFP-AAV
  - Brep-RFP-DAS
  - J23100-RFP-Spinach
- Pick colonies & inoculation in 5 ml LB+K (50 ng/ul, standardised) broth
  - Bind-RFP-YbaQ (Beta10)
  - Brep-RFP-YbaQ (Beta10)
  - Bind-RFP (TOP10)

2018.06.11

- Pick colonies & inoculation
  - Bind-RFP-AAV
  - Bind-RFP-DAS
  - Brep-RFP-AAV
  - Brep-RFP-DAS

2018.06.12

- Plasmid extraction
  - Bind-RFP-AAV (IA)
  - Bind-RFP-DAS (ID)
  - Brep-RFP-AAV (RA)
  - Brep-RFP-DAS (RD)

- Bind-RFP-YbaQ (TOP10) (IYT)
- Bind-RFP-YbaQ (Beta10) (IYB)
- Brep-RFP-YbaQ (Beta10) (RYB)

**2018.06.18**

- **Preparation of M9 broth**
- **Inoculation**
  - ID2
  - IA1
  - IYT1
- **Transformation into TOP10**
  - RYB2

**2018.06.19**

- **Pick colonies & inoculation**
  - RYBT2
- **Making glycerol stock:** 500 ul culture + 500 ul glycerol
  - IY
- **Inoculation for 8-hr Blue light characterisation: 5 ml LB+K broth**
  - \*Overnight growth in 37°C shaking incubator, 220 rpm
  - Brep-RFP (Control)
  - RA
  - RD
  - RY

**2018.06.21**

- **8-hr Blue light characterisation (hourly reading taking)**
  - Brep-RFP (Control)
  - RA
  - RD
  - RY

**2018.06.22**

- **Re-pick colonies (2 for each) & Inoculation**
  - RA
  - RD
  - ID
- **Arrival of Naringenin**

**2018.06.26**

- **Plasmid extraction**
  - RA
  - RD
  - ID
- **Plasmid construction & Assembly of 3 PCR fragments**
  - Brep-F3'H-pTet-FNS Backbone (BB)

2018.06.28

- **Inoculation for 8-hr Blue light characterisation**
  - Brep-control
  - RDT1
  - Bind-control
  - IDT2
  - IYT1

2018.06.29

- **8-hr Blue light characterisation**
- **Always On/ Off**
- **hourly reading taking**
  - Brep-control
  - RDT1
  - Bind-control
  - IDT2
  - IYT1
  - \*Refreshing: 50 ul overnight culture into 5 ml LB+K
- **Repeat PCR & Gel electrophoresis**
  - Brep-F3'H-pTet-FNS Backbone (BB)
- **Purified plasmid Transformation**
  - RYB2 into TOP10
- **Preparation of 70% Ethanol**
  - 95% stock

2018.06.30

- **8-hr Blue light characterisation**
- **Always On/ Off**
- **hourly reading taking**
  - Brep-control
  - RY
  - Bind-control
  - IA1
  - ID2
- **Pick colonies & Inoculation**
  - Brep-F3'H-pTet-FNS Backbone (BB)
- **Making of glycerol stock**
  - Bind-control
  - IY1
  - ID1
  - IA1
  - RD1
  - RY2
- **Transformation & Plating**
  - Brep-RFP-AAV (TOP10)

