

September 2, 2014

**Photobleaching:**

- Spin KillerRed, Codon Optimized KillerRed and Codon Optimized Supernova down
- Re-suspend in 3 ml PBS
- Plate triplicates of triplicates
- 1 hour photobleaching
- Control in 37 °C incubator for 1 hour
  - no decrease in fluorescence after 1 hour of photobleaching
  - repeated for 30 minutes more
- Didn't plate, put cultures in fridge to be photobleached tomorrow

September 3, 2014

- Repeated photobleaching experiment (see 08/26/2014)

**Estrogen Biosensor Testing**

- Testing red fluorescence from sensor, controls (DEAD), FAP intein

September 4, 2014

**Photobleaching Results:**

<b>Sample</b>	<b>Colonies</b>
KillerRed 1	~2208
KillerRed 1 Control	~2456
KillerRed 2	~2080
KillerRed 2 Control	~712
KillerRed 3	~1152
KillerRed 3 Control	~1440
Codon Optimized KillerRed 1	~1128
Codon Optimized KillerRed 1 Control	~732
Codon Optimized KillerRed 2	~1068
Codon Optimized KillerRed 2 Control	~1600
Codon Optimized KillerRed 3	~996
Codon Optimized KillerRed 3 Control	~338
Codon Optimized Supernova 1	~554
Codon Optimized Supernova 1 Control	~1600
Codon Optimized Supernova 2	~952
Codon Optimized Supernova 2 Control	~1048
Codon Optimized Supernova 3	~324
Codon Optimized Supernova 3 Control	~2024