August--

05/08

1. Discussion on genome editing with CRISPR Cas 9 systems
   - Understanding NHEJ (Non-Homologous End Joining) and HDR (Homology directed repair) methods of double stranded break repairs, with special focus on NHEJ
   - Realizing elements involved like target gene, guide RNA, PAM Sequence etc.
1. Examples discussed on identifying target sites
2. Making of gRNA segment for desired modifications in bacterial strains
3. Emphasis on improve target efficiency
4. Two inoculations of pTD103luxI_sfGFP from glycerol stock

12/08

1. Preliminary test for Interlab

Plate Reader(SpectraMax M2e)
96 well black plate with black bottom, well capacity 500 ul.
We used 200 ul in each well.
1:100 dilution(test : LB broth)(2ul:198ul)
Chloramphenicol Resistance. (1:1000)
Excitation 501nm Emission 511nm
Excitation 395nm Emission 511nm
Plate: Standard Opaque(as set in the plate reader)

A	+ve test diluted	-ve test diluted	Test 1 diluted	Test 2 diluted
B	+ve test diluted	-ve test diluted	Test 1 diluted	Test 2 diluted
C	+ve test diluted	-ve test diluted	Test 1 diluted	Test 2 diluted
D	+ve test diluted	-ve test diluted	Test 1 diluted	Test 2 diluted
E	LB with antibiotic	LB with antibiotic	LB with antibiotic	LB with antibiotic
F	+ve control fully grown	-ve control fully grown	Test 1 fully grown	Test 2 fully grown
G	E.coli.	E.coli.	E.coli.	E.coli.

H	Blank	Blank	Blank	Blank

2.) Discussion on flow cytometry to separate out the cells that glow and those which don't.
3.) Good result for OD600 obtained from transparent well plates but improper results for fluorosence without black well plates

14/08

- Design of Square wave generator completed
- Part ordered from GenScript

---------- MINOR 1 BREAK ----------