

## Diary of ZHOU Wenyan

### Week I [06.25-07.02]

1. A visit to Synthetic Biology and Biotechnology Laboratory at East China University of Science and Technology for coordination with Prof. Yi Yang.
2. Acquisition of LexA-VVD prototype plasmid, VVD wildtype plasmid and  $\Delta$ lexA E. coli strain.

### Week II [07.02-07.09]

1. VVD- riboflavin docking assimilation
2. Transformation of VVD wildtype plasmid (pET28a) in to BL21DE3
3. Lecture for Sowing Tomorrow iGEMers

### Week III [07.09-07.16]

1. Overexpression of VVD wt

	Temperature/ $^{\circ}$ C	Time/h	IPTG conc./M
1	30	5	1
2	30	5	0.5
3	30	Overnight	1
4	30	Overnight	0.5
5	22	5	0.5
6	22	Overnight	0.5
7	16	5	0.5
8	16	5	1
9	16	Overnight	0.5
10	16	Overnight	1

Expression protocol:

- a. Cultivation for 12h in 5ml LB(Kana<sup>+</sup>)
- b. Secondary cultivation for overexpression @set time/temp./IPTG (1:200 dilution)
- c. Centrifuged @6,000rpm(4 $^{\circ}$ C) for 10min
- d. Ultrasonic lysis, then centrifuge @12,000 rpm(4 $^{\circ}$ C) for 30min
- e. SDS PAGE for both precipitation and supernatant.

Result:

All in incubation body>\_<~

2. Design of poster for PKU-UCSF System Biology Challenge Program dinner

Week IV [07.16-07.23]

1. VVD sequence alignment and literature researches
2. Determination of mutation sites for VVD-LexA

Week V [07.23-07.30]

1. A visit to Zhejiang University iGEM team of 2012.

Week VI [07.30-08.06]

1. A five day off

Week VII [08.06-08.13]

1. Transforming LexA-VVD into BL21DE3(in pET28a, constructed by Zhou Yu)
2. Overexpression of LexA-VVD following a similar procedure as described above.  
All in incubation body.

Week VIII [08.13-08.20]

1. Collecting raw data of Historic iGEM Projects Review

Week IX [08.20-08.27]

1. Writing wiki for Outreach and Historic iGEM Projects Review

Week X [08.27-09.03]

1. Video for Historic iGEM Projects Review