Diary of LI Hanxi

July 1st-July 14th

Confecting M9 solid and semi-solid culture. Testing the physical property of M9 solid and semi-solid culture.

Looking for appropriate light source for later printing tests.

Laboratory set up and darkroom construction.

A series of mending tasks.

July 15th

Prepare plasmid DNA of: LexA408-VVD, LexA-VVD74, LexA-VVD135

Clony PCR of E.coli transformed with LexA408-VVD, LexA-VVD74 and LexA-VVD135

July 16th-July 23rd

Prepare double mutation clone with Mr. Yu Zhou.

July 24th-July 31th

BL21(LexA-VVD+colE mcherry) is grown in M9 culture.

Holes and slits were tried for plate printing, but all attempts failed.

We found that mcherry is hard to degrade,and ecoli grows slowly in M9 culture.

August 1st-August 3rd

Testing the growth curve of trans5α, ΔcheZ,l-v-colE-mcherry in M9 culture.

August 4st-August 6rd

Still printing with troublesome mcherry and mixing.

August 7th-August 13th

Cover agaric LB solid medium with E.coli and try to print.

Streak plate and try to plate.

August 14th

LexA-VVD+colE GFP strain obtained. It was grown in LB culture overnight.

August 15th

Add 2ml culture into 200ml LB culture(0.6% agarose and antibiotics added) and make the plates. One half was wrapped and the other half was exposed to blue light. All plates were grown in 30°C.

August 16th

GFP strongly expressed in the wrapped plates and little GFP expressed in the exposed plates.

August 17th

A pinked mask was applied to the plate and a dark area (no GFP) formed. This is the first printing result.

August 18th- August 25th

Four parallel blue light generating devices were made and a series of sharp images were printed,including a letter “M”, ”PEKING iGEM”, a Chinese character, an iGEM icon.

August 26th

An ipad printing device was made.

August 27th- August 30th

Print the wheel geal.

August 31th

An apple icon was printed using the ipad printing device.

September 1-September 9

Trying to make a 3-d printing device.