Instruction for ROTATION STUDENTS

1. READ CAREFULLY.

Go to the link below and read from the lab website. ; Basic, guideline, safety;

http://kimlab.website2.me/lab-safety ; these files and information are important for your work. If any trouble with reading these files, we also have a file folder in the lab. Ask any people in the lab. Please read all of them carefully.

Watch guideline in the lab at the link : http://kimlab.website2.me/lab-guidelines

2. WORK. Come to the lab by 9 AM from Monday-Friday. Saturday : 10AM. Sunday: 4 hours

Monday: lab cleaning

You will need to come to the lab even weekends for several hours.

Ask people to how to perform each experiment first. Remember, you need ALWAYS to ask someone to teach you. Always ask first before you do. Write down a lab notebook for each day.

Talk to me everyday during lab rotation. Briefly tell me what you have done each day.

a. picking worms, set up mating, do worm PCR ;

b. make media : lb+amp, NGM, mating plate

c. at the end of Lab rotation, you will a presentation.; see the page 2.

3. Once students join my lab, you will be assigned two types of work. 1. Work for lab, 2. Work for yourself.

Professor tries to minimize work for the lab, but you are required to do work to maintain the lab.

For your graduation these, the professor will assign your works for graduation. Your progress will be checked frequently. You need to understand that following daily guidance is VERY important for a successful lab life.

One-week lab rotation schedule:

1. Lab notebook: write every experiments. Always keep the notebook in the lab.
2. Lab hours : Come to lab 9AM every day. Sunday : 4 hours or more.
3. Report to me every day. ; 5 minutes is OK.
4. Label all your samples . All samples must be labelled.
5. Read information from the lab website http://Kimlab.website2.me

Day1.: assistant: _____

Read lab basics and safety from the lab website,

Lab work: lab cleaning, organizing freezer or incubator: +4C, -20C, -80C, incubator, boxes, unlabeled samples (all samples must be labelled)

Make 3 media: LB liquid(100ml), LB+Ampicillin Agar(100ml), and NGM agar(200ml) per each person.

Practice worm picking

Before you go home, inoculate *E.coli* OP50 to LB liquid media. Learn how to use autoclave.

Ask lab people to prepare 'males' worms for mating on day3.

Day2. : assistant: _____

Practice worm picking

Seed NGM for regular and mating plates,

Practice picking worms, Streak out OP50 on to LB agar.

Day3.: assistant: _____

Practice worm picking

Set up worm mating.

WORM PCR >> Do a Gel electrophoresis >> Run a Gel and Take a picture ; it may takes 2-3 days.

Day4. : assistant: _____

Practice worm picking

Release worm mating: single Hermaphrodite to each plate (for example, for 5 hermaphrodites, you need 5 plates.)

Day5. : assistant: _____

Day6. : meeting room or office,

Lab presentation: your research (10 min)+ paper (10min) (Find *C.elegans* DNA repair paper written in Chinese).

Clean your lab bench

Check the mating plate.

Day7 :

Check the mating plate.