iGEM daily meetings
Week of 5/29-6/1

5/29

- No work today because of MMG accident.
- PHAT project: switching to a tyrosine pathway that is cheaper and more suitable for e. coli. Mark (Octochem) is buying us some resveratrol. If pursuing a bottom up building model, biobrick resveratrol separately because there is a distinct demand for it.
    - Timeline: End of June, have 2 biobricks of the stuff from Koffas' lab (4CL. STS, 4 kumarate ligase) (PUCO is the vector where they are both already ligated together.) going pkumarate -> resveratrol -> picetannol
    - In vivo assays to confirm Korea's results and then move on. But are currently needing to cut down from 9 constructs.
- Melissa has contacted Richard Powers on behalf of iGEM
    - He's at Beckman we should go talk to him
- $ 95 pass to get film stuff from art department for the whole semester. Art 250 and we need a separate mike.
- 2010 uiuc igem team has a good synbio video. Take a look at it.
- Entrepreneurship: still don't know if one or 2 projects. Come up with a marketing pitch, a team description, and then an elevator pitch.
- Publicity: Divya will make a brochure by the end of the week
- Journal Club: We will have one! It will probably be 30 minutes a week on a biweekly basis. It is strictly optional, but there are definite benefits for attending. The first one will be hosted by Angela.

5/30

- Lab Manager: Our inventory is now on a google doc. Whenever you completely use something, make a note of it!
- Brochure is in progress.
- Entrepreneurship: Adi is going to start contacting companies about sponsorships. Is going ahead to go and make 2 projects. Adi will also start the business plan and elevator pitch with advisor Joe Bradley. He will also skype with Alex about the website at some point.
- Webmaster: Bob talked to Bhalerao. The server is off and in his office. He will make accounts for access.
- Publicity: Courtney has sent out a template from last year's brochure. Divya will update it for us by the end of the week.
- Angela: Will send us abstracts for editing and critique. This will go in the brochure.
- PHAT: need to get the actual MTA from Koffas. Rao also wants to talk to Koffas about that. Prof. Ho will be shipping the constructs on Friday, and we can anticipate their arrival on Monday. Brad suggests doing TCL (thin layer chromatography). Quantitatively, it will show a big or littler amount, but not

much else. It takes around 45 minutes. We can look into collaborating with another lab to purify picetannol if necessary. We can also do LCMS or GCMS.
- Angela: Design the forward and reverse primers for the PUF constructs with Lac I, YFP, and Lac Z.
- Asha: made LB, made electrocompetent cells, did inoculations for PUF
- Divya: made LB, made electrocompetent cells, started brochure
- Uros: transformed PSB1C3
- Adi: met with Courtney, met with Joe Bradley, inoculated for PUF
- We will work in DCL on the weekends. We need to do PCR so we will email advisor Ting Lu about getting space in his lab.

5/31

- Divya: working on brochure and blog. iGEM teams are following us and we are following them on twitter! Redesigning a logo
- Can start thinking about a t-shirt design
- Bob: put a drop down menu on the wiki, changed the project page, can put the twitter feed on the website under outreach
- Cara: emailed out new primers and would appreciate everyone's feedback
- PHAT project: got sequences of P10 and wild type
- Angela: can use other cloning methods, 3A assembly is outdated and primer extension has been recommended, for the testing of PUF binding can use the native plasmid backbone and not just PSB…, it is recommended that we send things in for DNA synethesis – iGEM is about the design and not the labor of cloning again and again (Dr. Jin says that if we can prove it works and cloning is under $500 then we should send it in for synthesis), all of these backup plans are very beneficial, new PUF primers are coming in soon (estimated Monday), we need an application for our project!
    - Possible application: PUF can be used for identifying and pinpointing a gene, we could try to combine the PHAT and PUF projects by using an mRNA sequence with multiple PUF binding sites. The different PUFs would be linked to different enzymes creating a biological conveyor belt for faster picetannol production. And then you can control when this mRNA is being made.