6.23.10
Meeting minutes

We're short on Ladder and PstI

How to quantify amount of metal in solution or on cell---email metal people on campus!

What we've cloned out:
ArsR
PAL
GolB
GolS
Omp
Hfq
MicA
MicF

What we've requested from the registry:
Gas vesicles with ars promoter
ars sensitive promoter
stationary phase promoter
AIDA, LamB

What we took out of registry:
Gas vesicles?—cut with Xba and Spe, run down gel.
Promoter—J23119
Omp
mCherry

Making a protocol page on the wiki, update with any protocol you know well and any tips/tricks.

Taking out camera help@igb.uiuc.edu say you're with iGEM.

Bioethics: movie?

Meagan/Erin—ordered parts from registry, cloned out ArsR, PAL, working on ArsB. Waiting on plasmid backbone, competent cells. Meagan restreaked dh5a, gonna do another overnight tonight. Put in LB tomorrow.
Tom/Amanda—cloned out parts from the registry, OmpA, mCherry, PCR out gold proteins from salmonella.
Francis/Bob—cloning out small RNA stuff. Colloroid project—if we get it to work, make plate for games camp. Also trying to get colors working. If we're putting fluorescent proteins under constitutive promoter, let Francis know. Also working on plasmid backbone PCR.
last semester—5'UTR of binding sites and codons put upstream of GFP, tried to knock it out with small RNAs. The 5' UTR wasn't in biobrick format because it was difficult to make the fusion we needed. Small

RNA not in biobrick format either yet. We will be putting it into RFC10. Cloned out hfq, want to overexpress it to make small RNA more effective. Overexpression could also have some detrimental effects on cell growth but it's not really documented soooo we'll see.
Steve/Matt—haven't really gotten started. Tying up a few ends with plasmid backbones. Start doing stuff today: lock and key, another type of decoder, riboregulator, to have something to compare to. Put it under different promoter, fluorescent proteins, to reference it to the small RNA project.

Make schematics for the small RNA stuff, lock and key.

Make sure the fluorescence proteins work and that we can get a good reading on them. Steve did GFP from the registry already. Matt and Steve will take care of it.

Stuff to do during Lab downtime:
meetings every day, 4:00
make sure we have lab supplies
Sign up for, take Psych Surveys
Update wiki—survey, bioethics
How we're going to collect data—which assays, protocols for those assays, what we need
Games Camp
Modeling—read "an introduction to systems biology" :will the cells float,
essays for grants
ask for funding from people.
take out video camera, film people doing stuff

Stuff to order:
1Kb ladder
PstI
primers—Ars promoter, membrane metallothionein fusions, ArsB, mutagenesis primers, sacI
Ligase
SacI
chemicals from sigma Aldrich (hopefully we'll get donated)
stuff for protein gels (Tom)

Make page of primers to give to Dr. Rao to check

Epoch kit gives really bad DNA concentrations, invitrogen is not reliable, but we can use the spin columns.
Concentrate as much as we can.