

12/07/2017 – General team meeting minutes

In attendance: Jess, Lais, Jack, Zoe, Declan, Marcia, Angel, Tom, Wendy, Neil, Michel

Latecomers: Sophie, Bradley-From Transforming

Points Discussed;

- Apologies given for absence
- Help in labs for sub teams from Mike and Wendy in CBCB
- Already have organised help in Devonshire
- Look at the logo and name
- **Judging Form**
- Funding
 - O2 Think Big Funding
 - Questions about Zoe's funding
 - Marcia PDP sent off
 - Neil talking to computer science
 - Travel is more important
 - T-shirts difficult to claim back
- Talks and events to organise who's presenting at Boston-Have backbones of presentation
 - CBCB Practice talk September
 - Present to first years
 - ICOS talk
- Medal requirements
- Wiki
 - **Create a mock up version**
 - Judge others Wiki's
 - Click on bits of interest-skip to point
 - Onenote is standard for lab notes with paper copy in labs
 - Biotech are on Benchling and paper lab books
 - **Make clear why in separate cells-DEVELOPMENT PLATFORM**
- 4 Different teams for everyone
 - Declan and Jess
 - IPTG
 - Arsenic
 - Tuner
 - Amplification device
 - Marcia and Lais
 - Synthetic Promoters
 - Transposes
 - Sophie and Bradley
 - Glyphosate
 - Cell free
 - Design the amplification
 - Design transposes-FimE
- **Review of adaptor name-Needs better phrase to sum it up**
- **Other outputs- for colour change problem 7000bp construct- look at chromo proteins**
- Florescent proteins to synthesise-novel

- Look at previous biosensor inputs to design but not build-HSL expression
- Ansh- build on work going on in Devonshire
- Jeclan
 - IPTG ordered should come on Monday
 - AHL to test, how to test detector-use RBS GFP, process of elimination if processor and output work then detector the problem. **Debug without the processing unit. Just design this unless problem occurs.**
 - **Make a design with connector 1 in the processing unit and connector 2 in the output**
 - Logic gate has been reviewed and gates with a second set of connectors-more connectors would be needed, articulate
 - Arsenic- Lacz? Need a front end sensor, base pairs are they an issue? COSHH form done and Alice has checked, **need to send and amend.**
 - Sensitivity-2 constructs everyone Okayed to design it
 - Amplification T7 Polymerase-**swap over connector T7 and polymerase** so it fits with toolkit
 - Fine for Harold Fellerman to bring up at Cambridge
- Wildcats
 - Adaptor Sarc Oxidase
 - Putting this into backbone
 - **Need to calibrate test strips**
 - Overnight cult Thursday
 - Mini p on Friday -If successful send off for sequencing on Friday
 - First brick for silver by next meeting-Bradley
 - Not on registry so new part already
 - Formaldehyde- protein extraction and gels to test if it works
 - Cell free stuff- Extracts are not working as well, make again, protein conc. Checked, **need to check for cells**
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 - Transposes-Test FimE, cloned and transformed- colonies on the plate, **send off for sequencing, miniprep.**
 - FimE- stop getting fluorescence, FimE can only swap one way Library
 - Different coloured colonies red, pink and white which is good
 - Sort fluorescent and non-fluorescent
 - Sent off 4 of each promoter to sequencing-results by Friday

Delft

- Want to send us their systems-lots of people want to collaborate.-we give them different variants of their biosensor, i.e. change outputs, different population.
- Keen on the design, processing/output end saying they are generic
- Different cells feel like not practical for field use due to communication between cells-development platform so could be put into one cell after development
- **Need rational on separation and specialisation-so it doesn't come up as a question. Eukaryotic cells, humans and bacillus.**
- How to envisage field use
- Middle ground on project rather than one of the top
- Other teams large
- Born from iGEM based problem

HP

- Talked to Dr Chris French over skype-main hindrance legislation
- Found out why arsenic biosensor has lost funding
- Cell-free arsenic one has been done outside iGEM with problems with the activity
- Talked to Dr Martin Peacock about hardware- he has issues with biological side, i.e. fluorescence hard to detect in cells
- Upcoming things looked at
 - **Send poster to Delft**

Potential errors in registry, 3 were found

Medal Requirements

Important dates

- Big Bang on Friday-Review of plan, boards sorted, set up tomorrow evening 10am Friday. Zoe, Declan and Sophie. Transfer skills from Engineers at the event. Concept of what they are doing.

Niel-"We have 'extra' for sequencing"