

Business Development

Participants: Laurence Seeley, Stephen McCallion, Bradley McCallion

Discussing business development with Stephen McCallion.

Parts Registry & Contribution with Hainan

Participants: Laurence Seeley

Talk about the experimental work Hainan did. Address parts for the iGEM registry (mf-Lon protease)

Global Meet Up Video

Creating short videos of each team member answering a different question. The videos were then combined with those of the rest UK teams and presented in the iGEM Global Meet Up.

Whole team meeting

Participants: iGEM team 2020, James Hammond and Eleonora Santsilla (part of the 2019 iGEM team)

Receiving feedback on the wiki and Caius' mutation model from Eleonora and James.

Evolutionary Mutation Modelling - I

Participants: Caius Gibeily

Added a generational third dimension to record changes in mutations per generation; added mutation memory and asexual reproduction and death

Evolutionary Mutation Modelling - II

Participants: Caius Gibeily, Isobel Guthrie, Laurence Seeley, Polina Foteva

Discussed model and discovered omissions to be rectified; research into lon-specific ccdA degradation (in relation to mf-Lon and eco-Lon). Determined rough estimate of number of mutations per population per generation. Uploaded EFM calculation of plasmid stability.

Evolutionary Mutation Modelling

Participants: Caius Guilbeily, Isobel Guthrie, Laurence Seeley, Polina Foteva

Caius created the first prototype of the genetic algorithm - converted system of ODEs into a pliable function, prepared B array, mutational cycle, Poisson distributions.

Gene Circuit

Participants: Laurence Seeley

Discussed aspects of the gene circuit that needed reworked - made the appropriate changes (mfLon). Created the rest of the gene circuit on snapgene and researched R.CviJI as RE for circuit. Made synthetic constructs up alongside in silico gel electrophoresis lanes using various RFC standards and R.CviJI. Found information on skin flora HGT and phage-microbe interactions for HGT model.

Future Development

Participants: Isobel Guthrie, Laurence Seeley, Polina Foteva

Meeting with Will Wright in relation to the possibilities of future development of the project.

App Development

Participants: Isobel Guthrie

Filled in the information about microplastics contained in cosmetics.

Glucose sensor part

Participants: Laurence Seeley

Glucose sensor part was uploaded to the wiki