

## **Gene Circuit**

**Participants: Caius Gibeily, Laurence Seeley**

Looked at ApE and illegal sites within gene circuit components up to this point. Carried out *in silico* site-directed mutagenesis to remove these sites. Optimisation also carried out for some parts using IDT codon optimisation tool. Went over the theoretical wet lab procedure and dual plasmid design for shinorine expression and kill switch mechanism.

## **Video**

**Participants: Isobel Guthrie, Bradley McCallion, Anneleen de Rooter, Caius Gibeily, Laurence Seeley**

Made minor changes to the script for the promotional video. Recorded the first draft version for addition to the video.

## **Team Collaboration**

**Participants: Laurence Seeley**

Met up with Paris Bettencourt to discuss the collaboration, sampling process for their skin microbiome project and receiving useful information from the survey they collect.

## **Reef conservation case study**

**Participants: Poli Foteva, Yaxuan Kong, Soo Bynn Lee**

Case study nearly finished, few tweaks and edits based on comments received.

## **Environmental Modelling**

**Participants: Poli Foteva, Yaxuan Kong, Isobel Guthrie**

Discussed environmental modelling, researching into the degradation of oxybenzone in water and how we could collaborate with Manchester on this research. Made up basic equations for the 'washing off of sunscreen' into the water per person.