iGem_김태현

#iGem2020

##Team information

```
Name <- c("Team:Cornell", "Team:Harvard", "Team:Ionis Paris", "Team UPF Barcelona")
Organization <- c("Cornell college", "Harvard university", "IONIS education group", "Universitat Pompeu
Title <- c("A Novel bacteria theraphy and mornitoring for metastatic breast cancer", "A COVID-19 Antibo
Wiki <- c("https://2020.igem.org/Team:Cornell", "https://2020.igem.org/Team:Harvard", "https://2020.igem
Problem <- c("         ", "COVID-19   ", "Multi-resistance bacteria", "Hypothyroidism     ")
Design <- c("                    ", "       COVID-19     origami nanostructure  ", "Multi-antibiotic res
Team <- data.frame(Name, Organization, Title, Wiki, Problem, Design)
Team
```

```
##                 Name             Organization
## 1       Team:Cornell          Cornell college
## 2       Team:Harvard       Harvard university
## 3   Team:Ionis Paris    IONIS education group
## 4 Team UPF Barcelona Universitat Pompeu Fabra
##                                                                                 Title
## 1                       A Novel bacteria theraphy and mornitoring for metastatic breast cancer
## 2 A COVID-19 Antibody Therapeutic Based on Machine Learning and DNA Origami Sequence Delivery
## 3                                An innovative Way to Fignt Against Antimicrobial Resistance
## 4                               An Artificial close-loop for hormonal homeostatic regulation
##                                     Wiki                        Problem
## 1       https://2020.igem.org/Team:Cornell
## 2       https://2020.igem.org/Team:Harvard              COVID-19
## 3   https://2020.igem.org/Team:Ionis_Paris    Multi-resistance bacteria
## 4 https://2020.igem.org/Team:UPF_Barcelona Hypothyroidism
##                                                                    Design
## 1
## 2              COVID-19     origami nanostructure
## 3 Multi-antibiotic resistance bacteria      bateriophage
## 4                       Hypothyroidism
```

##Part

###Team:Cornell

```
Partname_Cornell <-c("BBa_K3419000", "BBa_K3419001", "BBa_K3419002", "BBa_K3419003", "BBa_K3419004", "BB
Description_Cornell <-c("ASD", "Trichosanthin", "ASD with strong promoter", "Trichosanthin with strong p
Part_Cornell <- data.frame(Partname_Cornell, Description_Cornell)
Part_Cornell
```

```
##   Partname_Cornell                                        Description_Cornell
## 1     BBa_K3419000                                                        ASD
## 2     BBa_K3419001                                                Trichosanthin
## 3     BBa_K3419002                                  ASD with strong promoter
## 4     BBa_K3419003                       Trichosanthin with strong promoter
## 5     BBa_K3419004                            mCardinal with strong promtor
## 6     BBa_K3419005 Holin/Anti-Holin Kill Switch with lactate inducible promoter
```

###Team:Harvard

Wetlab이 없어 결과 사진 첨부

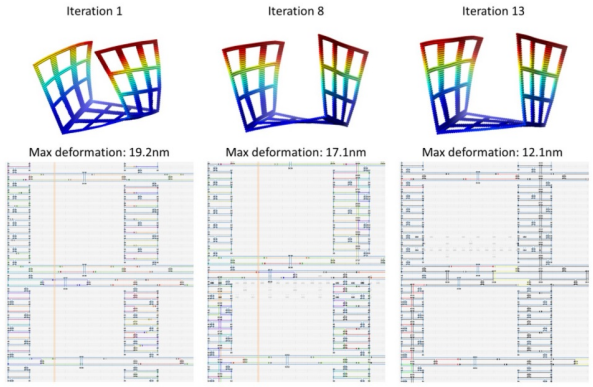

Figure 1: Nanostructure

###Team:Ionis_Paris

```
Partname_Ionisparis <- c("BBa_J61127", "BBa_J61130", "BBa_J61118", "BBa_J61118", "BBa_J1109")
Description_Ionisparis <- c("mcpM", "mcpI", "mcpA", "mcpD", "mcpB")
Part_Ionisparis <- data.frame(Partname_Ionisparis, Description_Ionisparis)
Part_Ionisparis
```

```
##   Partname_Ionisparis Description_Ionisparis
## 1          BBa_J61127                   mcpM
## 2          BBa_J61130                   mcpI
## 3          BBa_J61118                   mcpA
## 4          BBa_J61118                   mcpD
## 5           BBa_J1109                   mcpB
```

###Team:UPF Barcelona

```
Partname_UPF <- c("BBa_K3484000", "BBa_K3484002", "BBa_K3484006", "BBa_K3484001", "BBa_K3484003", "BBa_
Description_UPF <- c("Intein mediated T3 biosensor with sfGFP", "Intein mediated T3 biosensor with eGFP
Part_UPF <- data.frame(Partname_UPF, Description_UPF)
Part_UPF
```

```
##   Partname_UPF
## 1 BBa_K3484000
## 2 BBa_K3484002
## 3 BBa_K3484006
## 4 BBa_K3484001
## 5 BBa_K3484003
## 6 BBa_K3484004
## 7 BBa_K3484005
##                                                  Description_UPF
## 1                              Intein mediated T3 biosensor with sfGFP
## 2                               Intein mediated T3 biosensor with eGFP
## 3                                                 sfGFP with an ASV tag
## 4  Transcriptional unit for the intein mediated T3 biosensor with sfGFP
## 5  Transcriptional unit for the intein mediated T3 biosensor with sfGFP
## 6 Produce sfGFP when a large enough concentration of lactone is present
## 7   Produces lactone in presence of arabinose and in absence of glucose
```