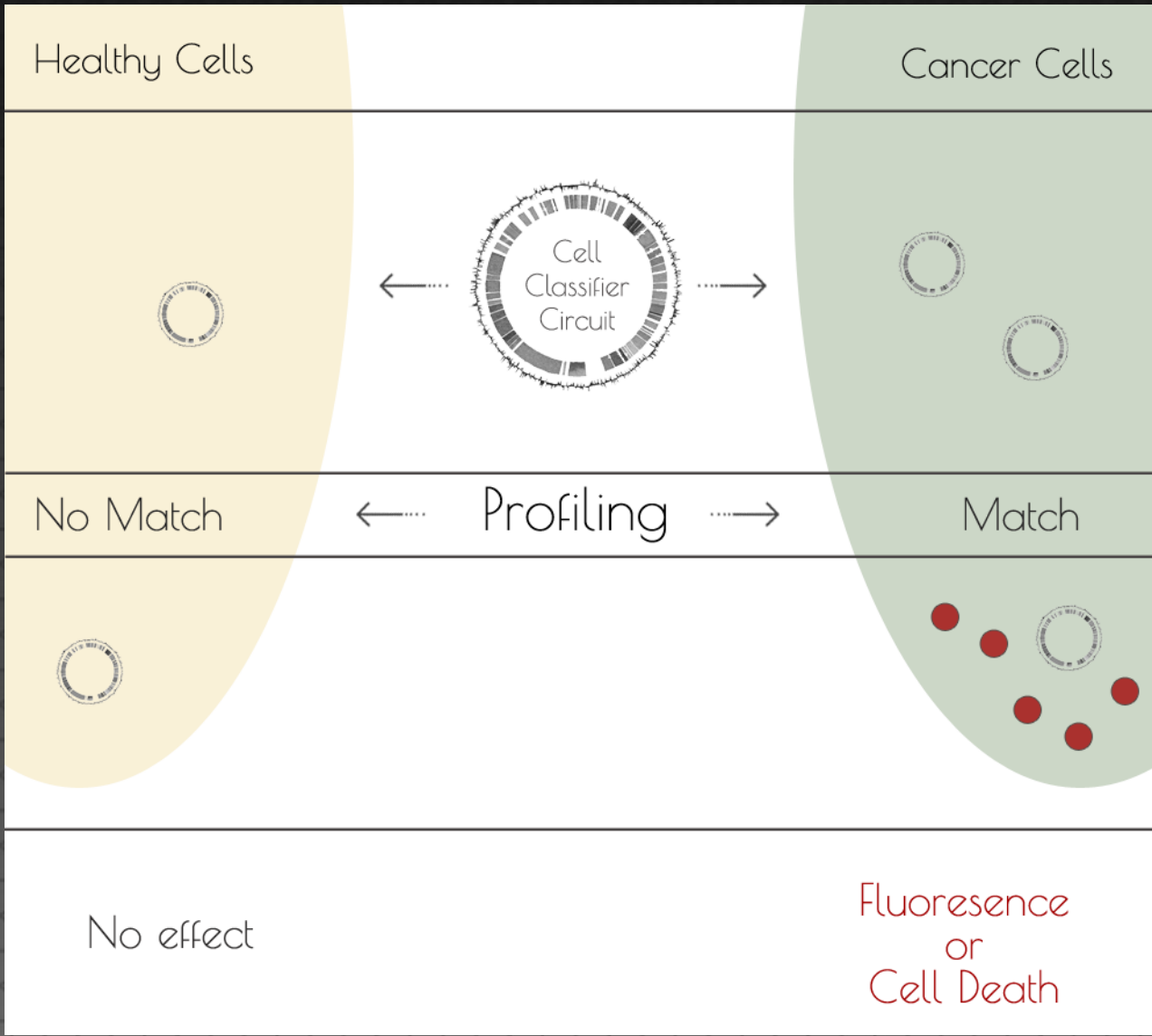


A molecular computer to classify cells

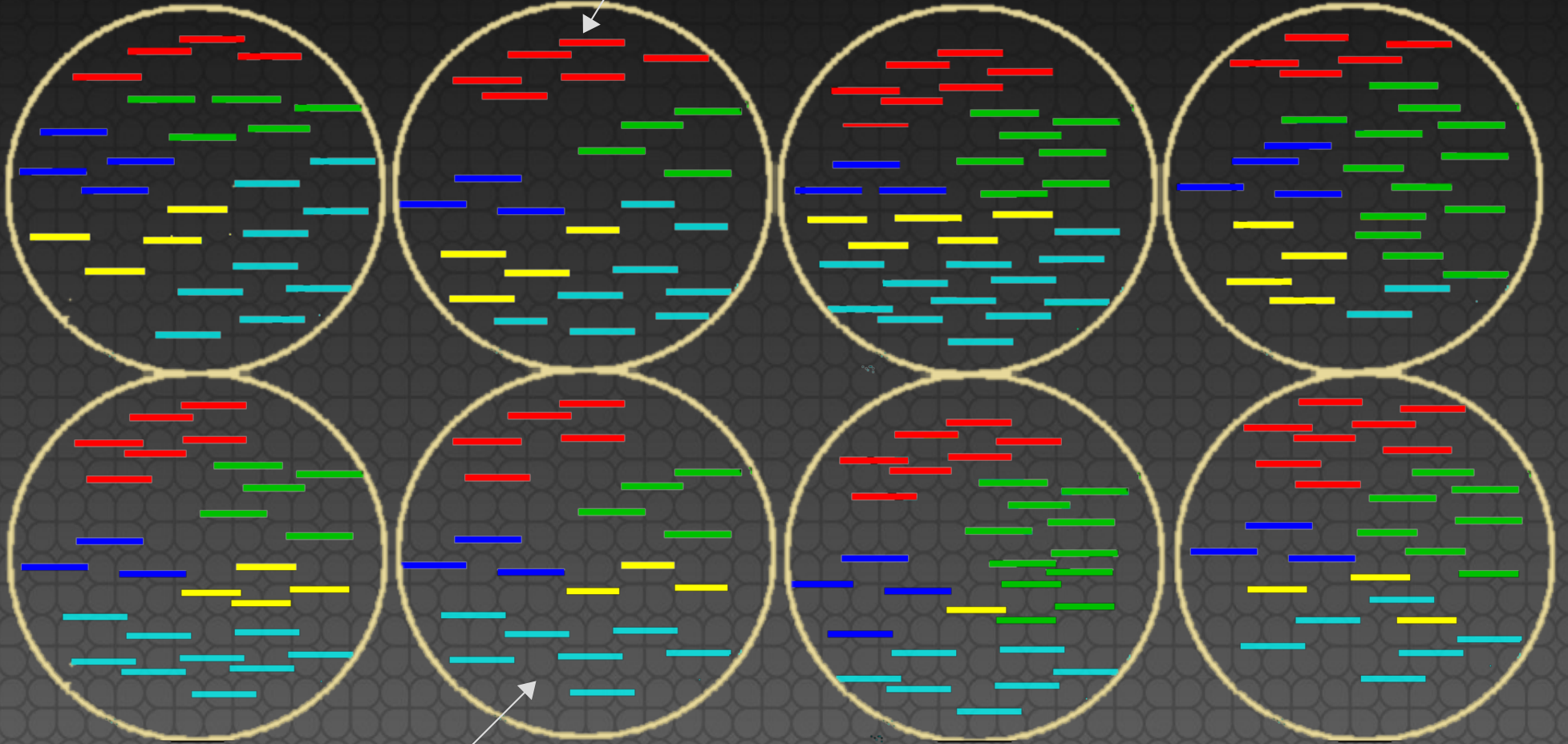
Konstantinos Samaras-Tsakiris

iGEM Greece 2017



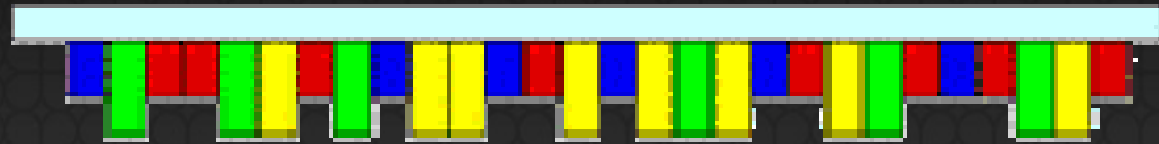
miR 1

cancer?

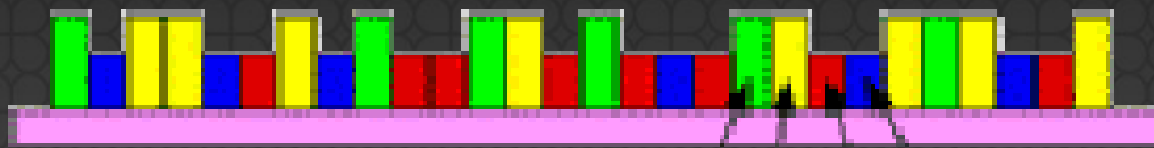


miR 2

DNA

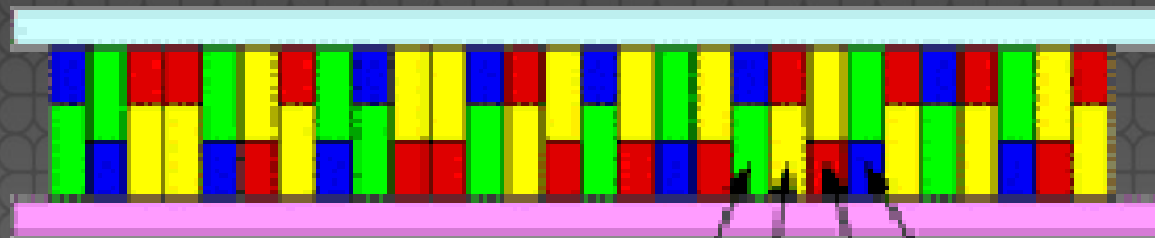


RNA

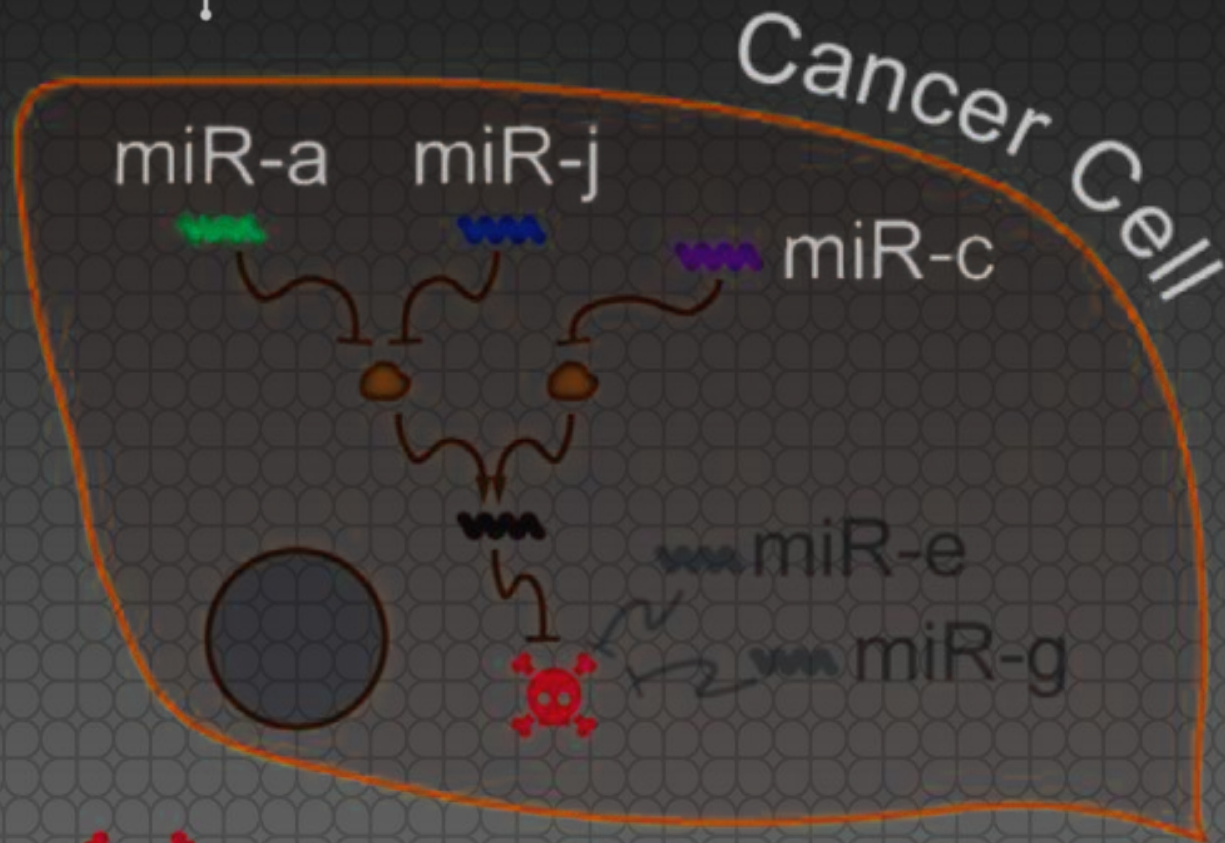
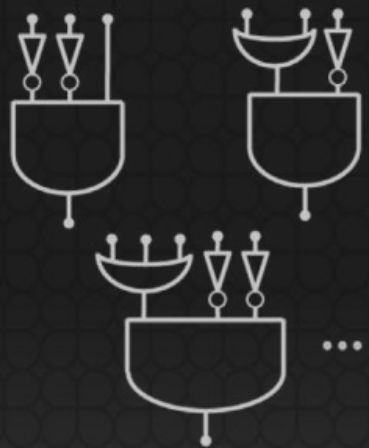


G A U C

DNA-RNA Hybrid

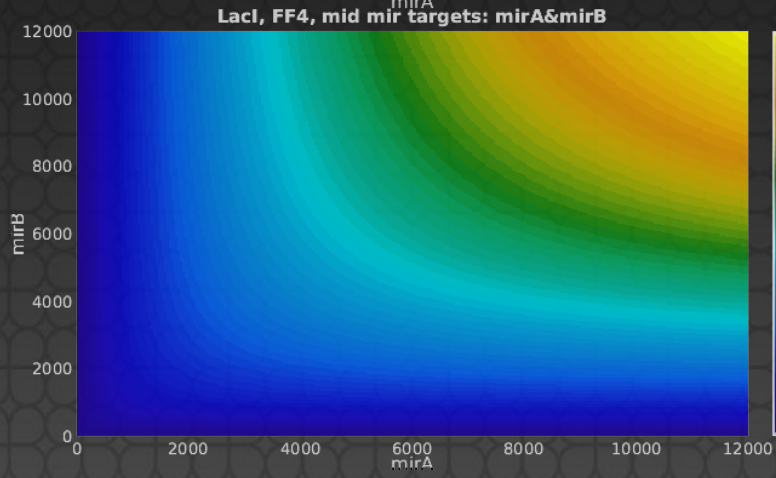
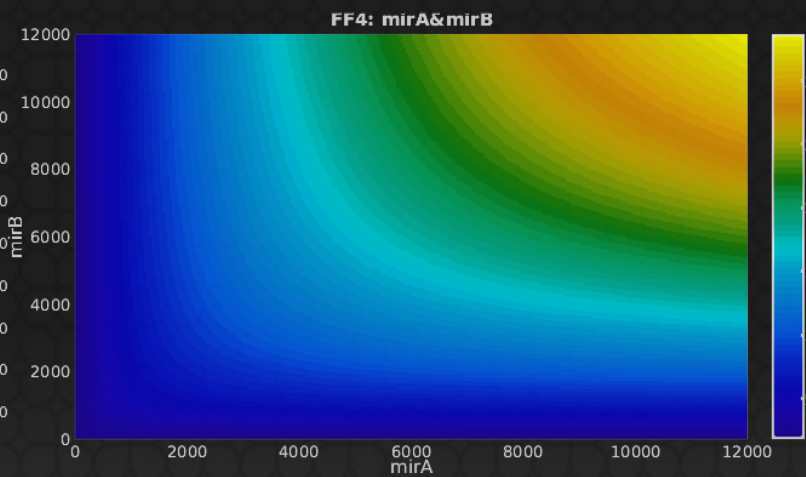
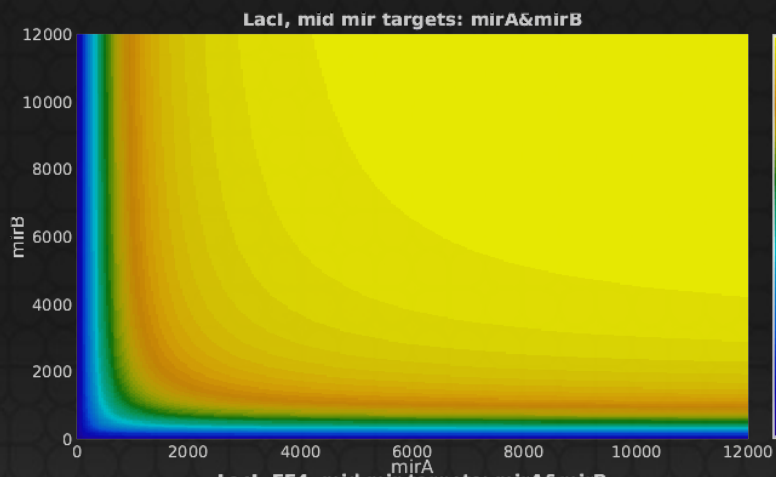


G A U C

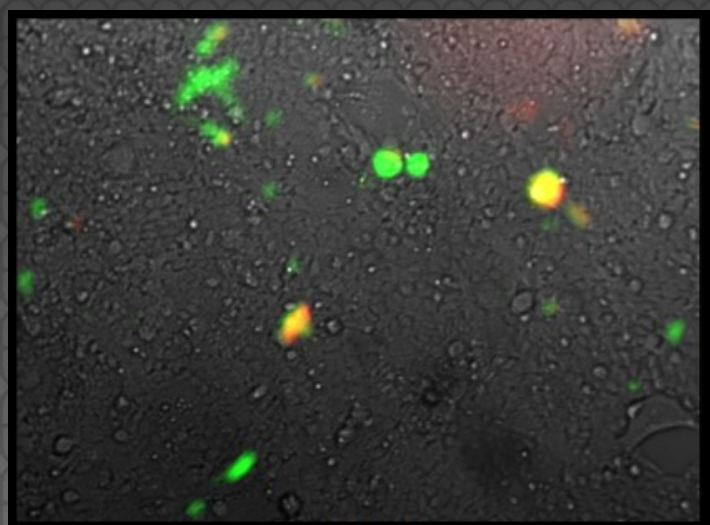
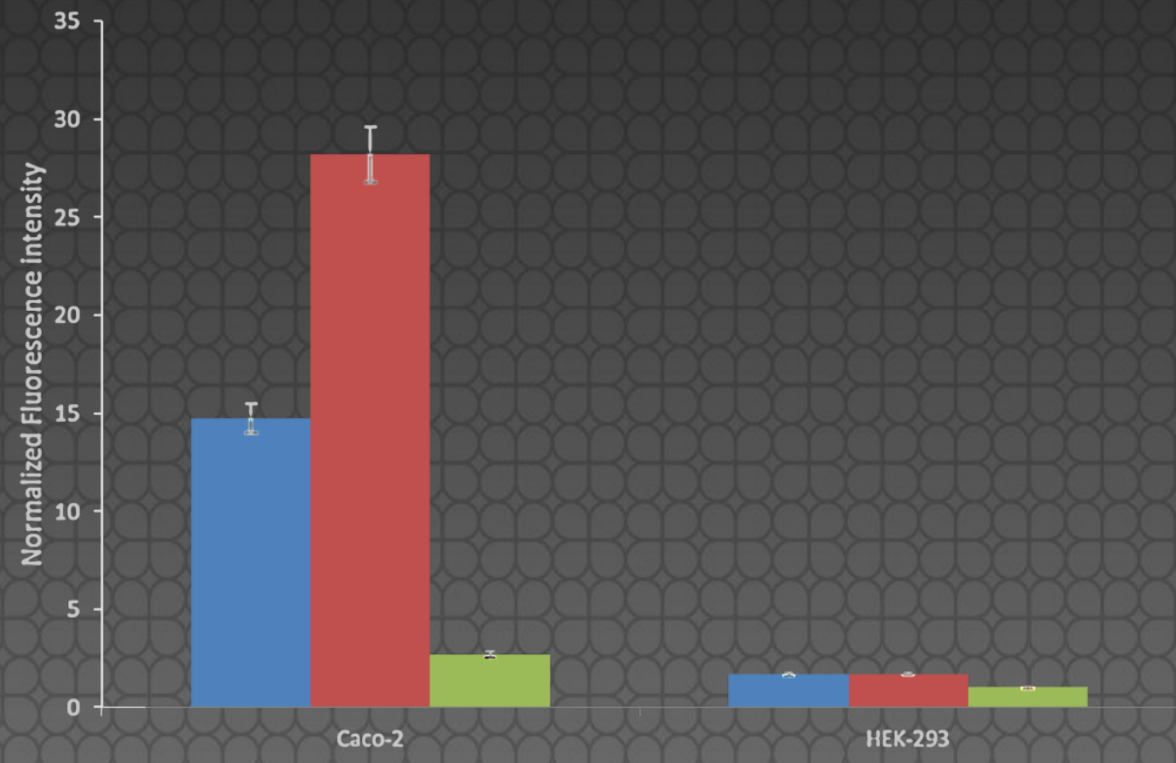




$$= (\text{miR-a} \mid \text{miR-j}) \ \& \ \text{miR-c} \ \& \ \text{not}(\text{miR-e}) \ \& \ \text{not}(\text{miR-g})$$



■ miR-21 & miR-372 | miR-373 & lmiR-145 & lmiR-143 ■ miR-21 & lmiR-145 & lmiR-143
■ miR-372 | miR-373 & lmiR-145 & lmiR-143



**pCMV-DsRed-T145-143-TFF4-SV40
GFP marker**

Questions?

Contact

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[Project page](https://2017.igem.org/Team:Greece)

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