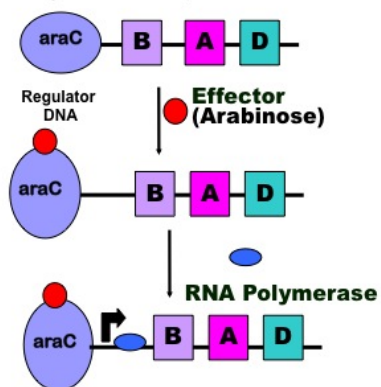


makes protein that breaks down ampicillin (provides ampicillin resistance)

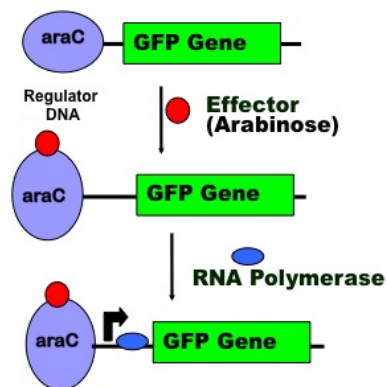
GFP Gene Regulation in pGLO

Genes normally regulated by the araC operon (“B” “A” and “D”) have been replaced with the gene for GFP. Now, addition of arabinose turns the araC operon on, turning on expression of the GFP gene.

original ara Operon



modified ara Operon

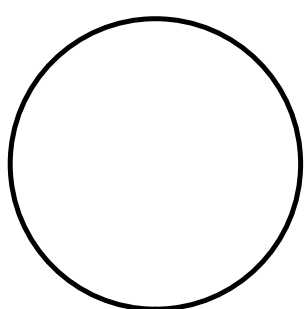


Pink = +pGLO (receiving the plasmid)

Green = -pGLO (not receiving the plasmid)

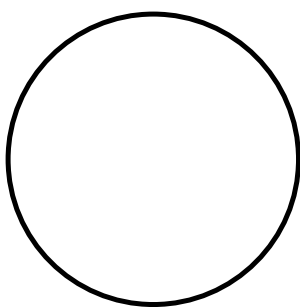
Draw this an make your predictions:

Conditions- Day 1



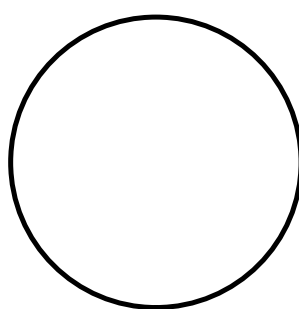
-pGLO

LB



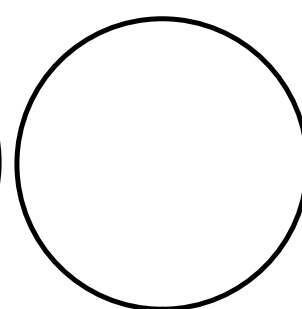
-pGLO

LB/AMP



+pGLO

LB/AMP



+pGLO

LB/AMP/ARA