System Engineering M2D3

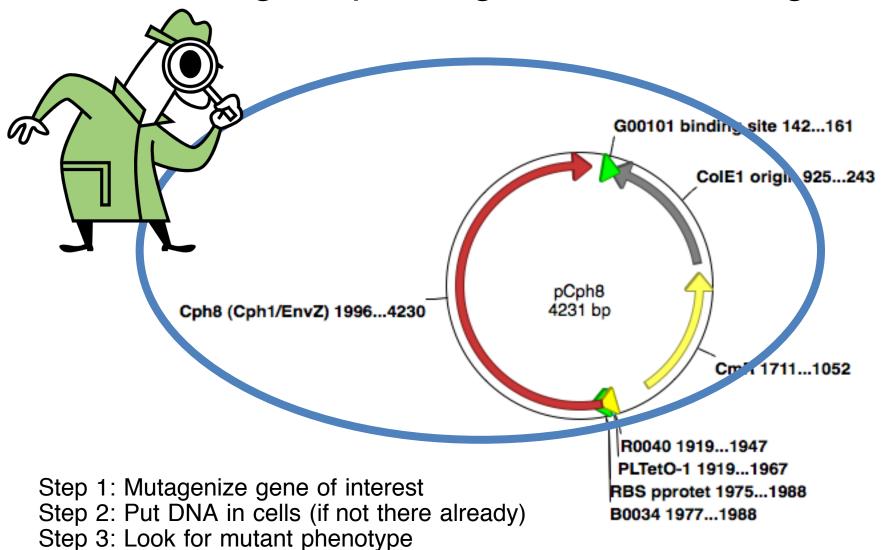
10.20.11

Measuring LacZ

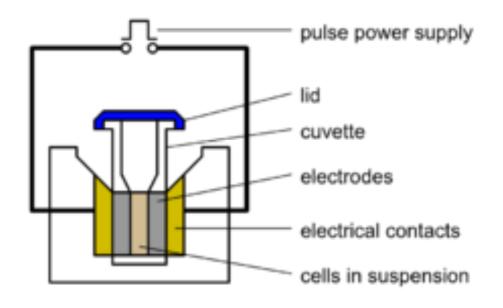
1 Miller Unit =
$$1000*\frac{(Abs420-(1.75*Abs550))}{(t*v*Abs600)}$$

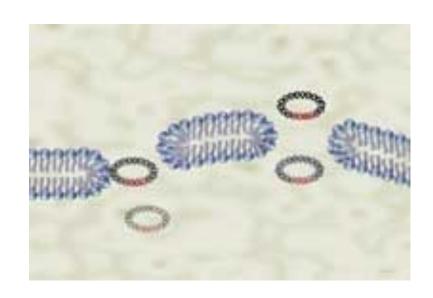
Team Color	B-gal units (dark)	B-gal units (light)
Red	1044	137
Orange	1297	360
Yellow	1236	228
Green	1274	420
Blue	1177	ンスン
Pink	1292.5	457.5
Purple	6 1	- 299

Looking for parts: genetic screening

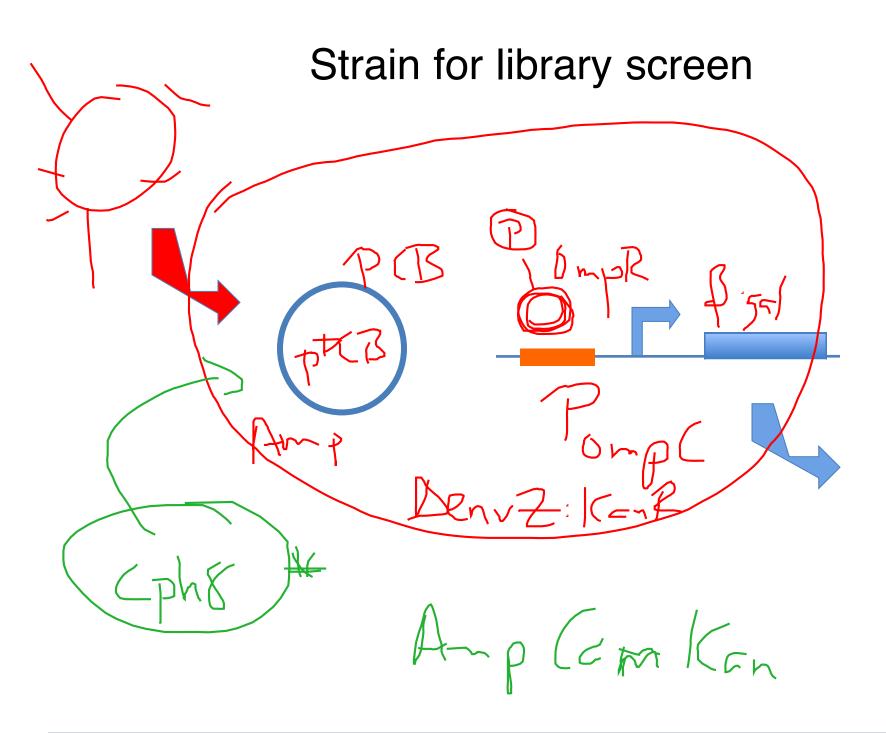


Electroporation





An artistic representation davidson.edu



TTC Media: variations in color from variations in b-gal activity

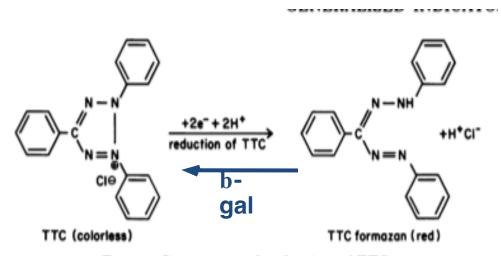
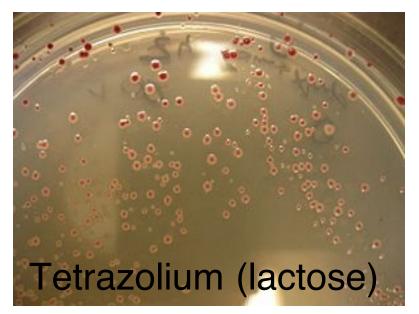


Fig. 1. Structure and reduction of TTC.



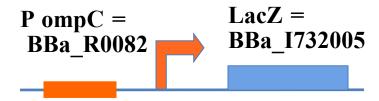
APPLIED AND ENVIRONMENTAL MICROBIOLOGY, Feb. 1977, p. 434-444 Copyright © 1977 American Society for Microbiology Vol. 33, No. 2 Printed in U.S.A.

Generalized Indicator Plate for Genetic, Metabolic, and Taxonomic Studies with Microorganisms

BARRY R. BOCHNER^{1*} AND MICHAEL A. SAVAGEAU

Part 2: Registry of Std Biological Parts

Design a protein generator

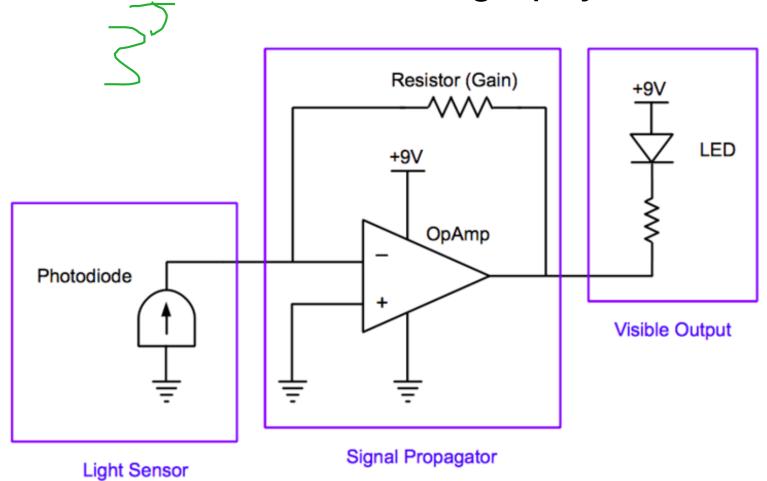


What about using BBa_E0040 (= GFP) instead? What about using BBa_I760005 (= Cu⁺ promoter)?

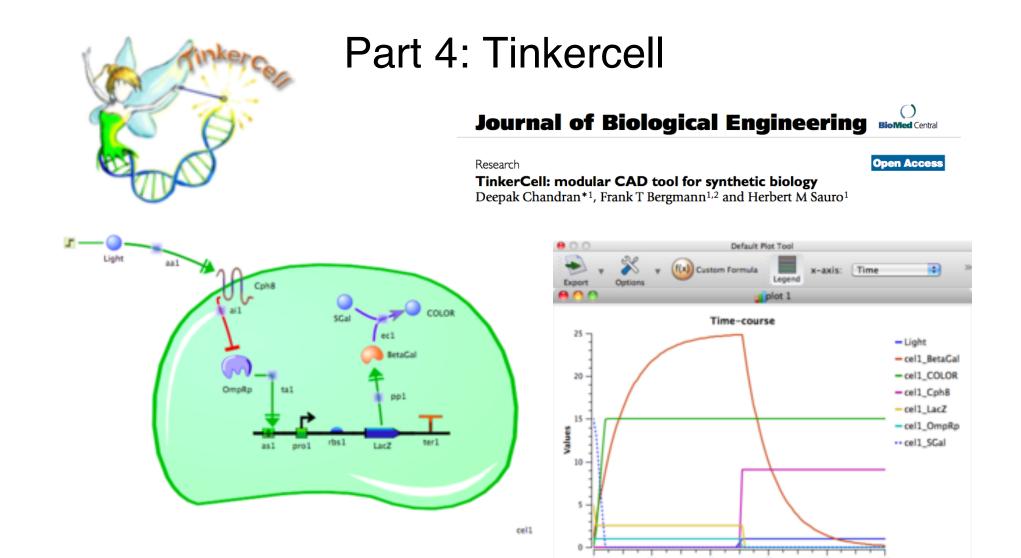
Don't forget the RBS!

...AUAAAGGAGGUAAAUAAUG RBS start codon

Part 4: Bacterial Photography Circuit



Voltage difference across devices causes them to turn on



x: -2.6253 y: -4.57516

Today/next week in lab....

R) Electropocate
Registry/Ekatronics Tinker meet in 165