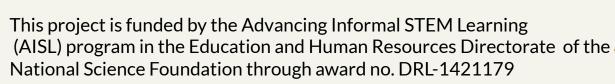


**Activities and Conversations about Synthetic Biology** 

Megan Palmer
David Sittenfeld
NISE Net Network-Wide Meeting







## SYNTHETIC BIOLOGY!

Why syn bio, why now? What is syn bio? How might you engage with syn bio?



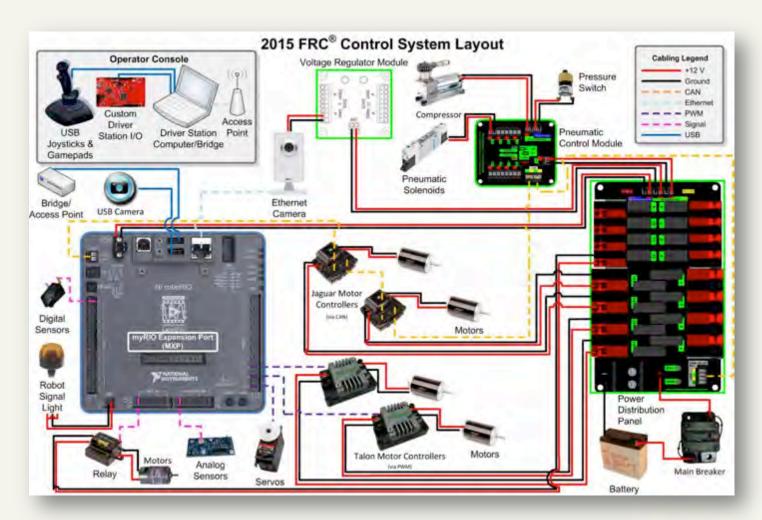


















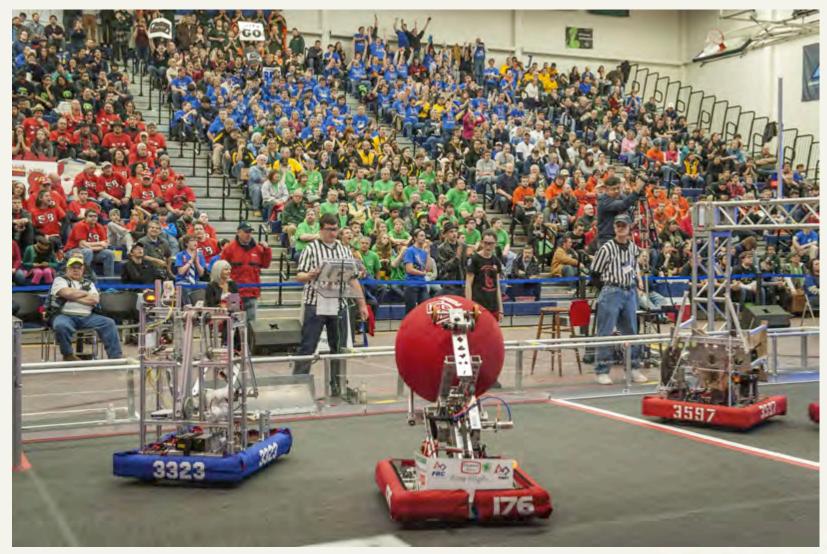




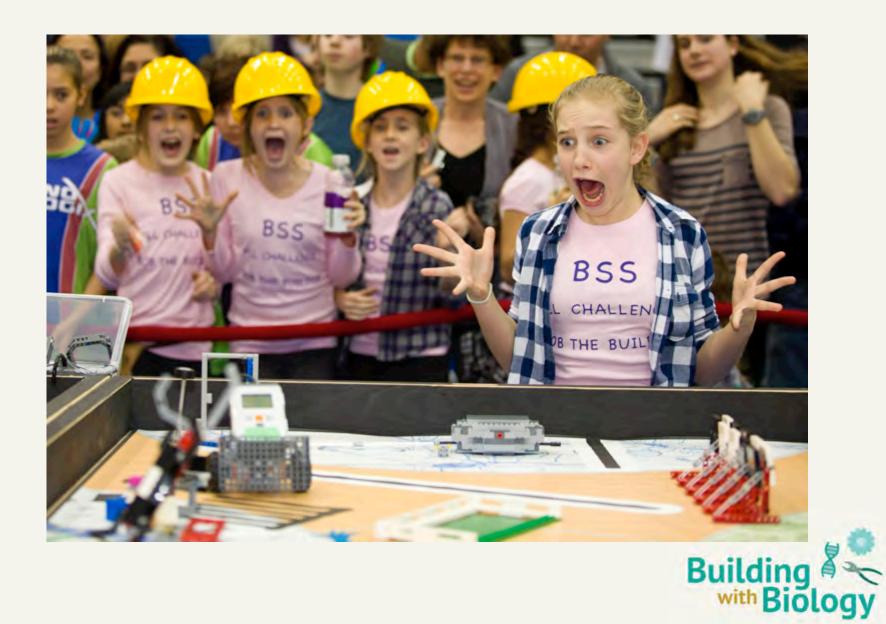


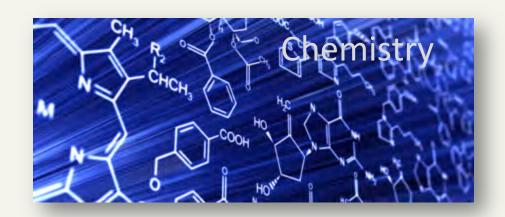




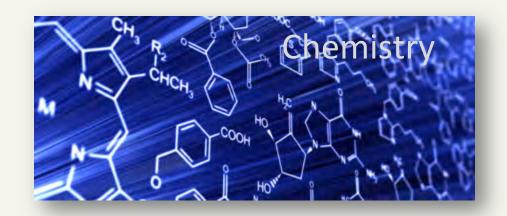


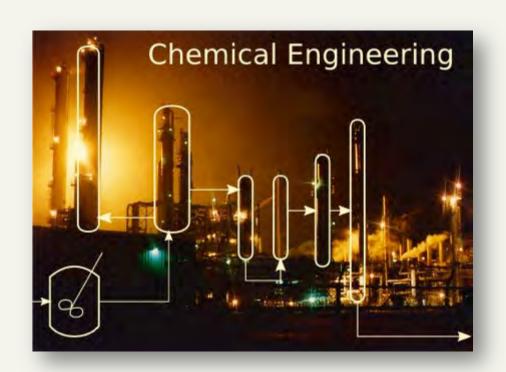




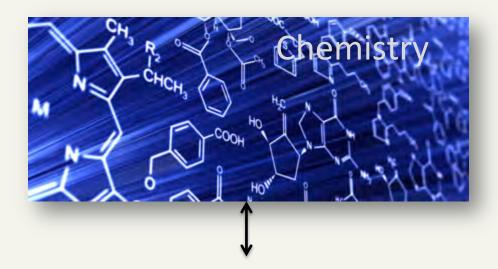




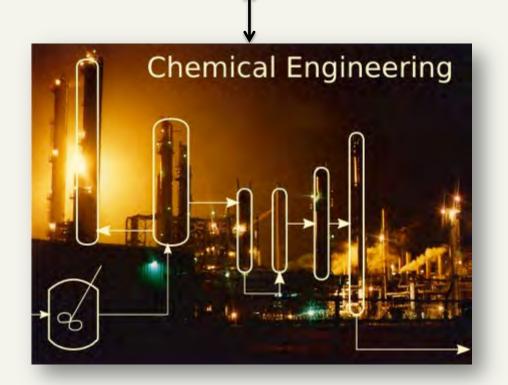




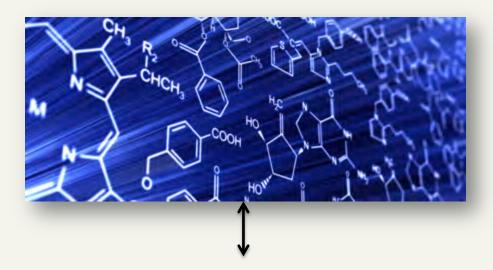




Systems Engineering Principles: e.g. Abstraction, Modularity







Systems Engineering Principles: e.g. Abstraction, Modularity





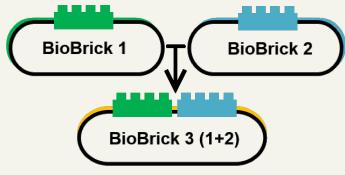






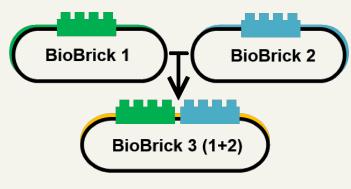


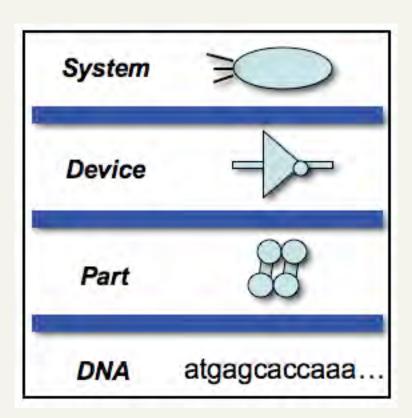








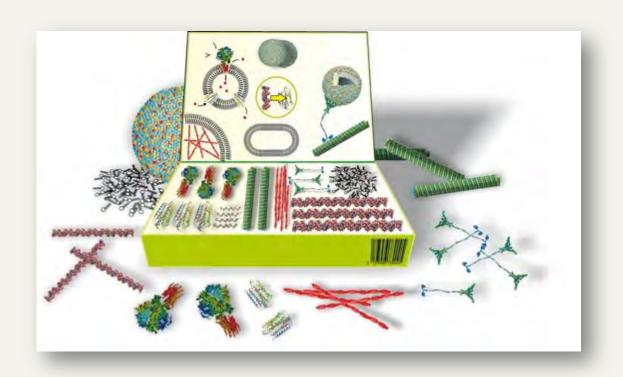


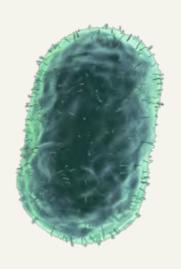












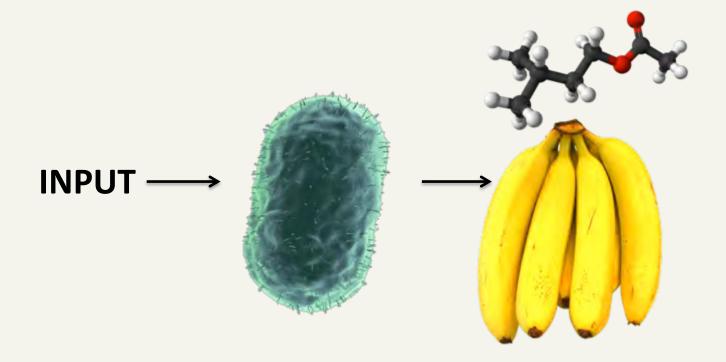




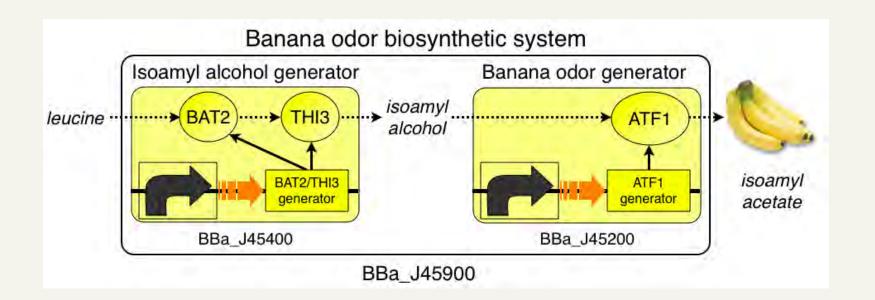




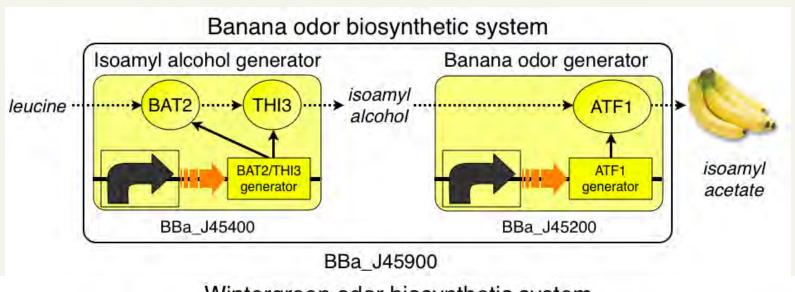


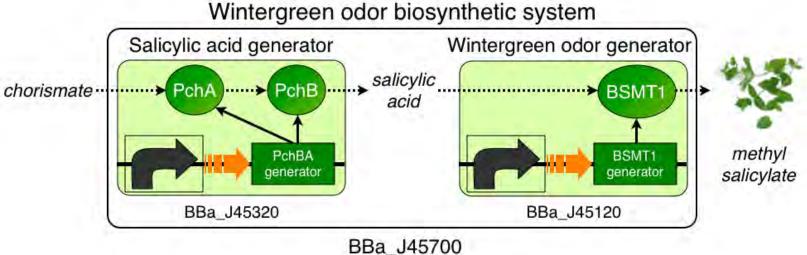




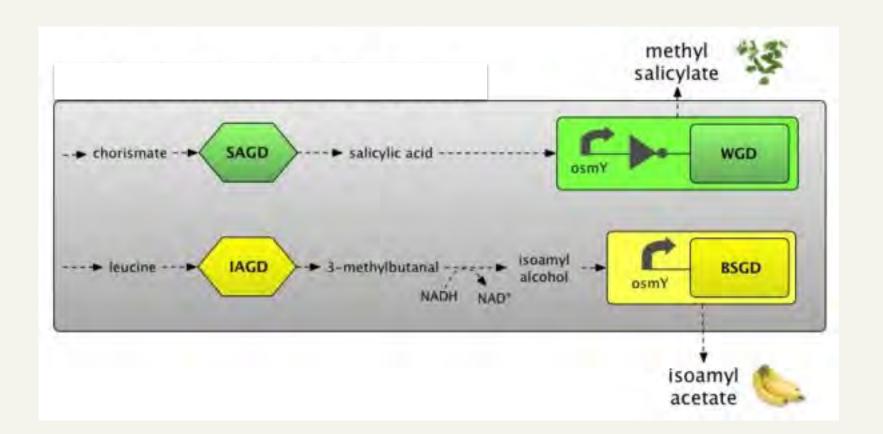




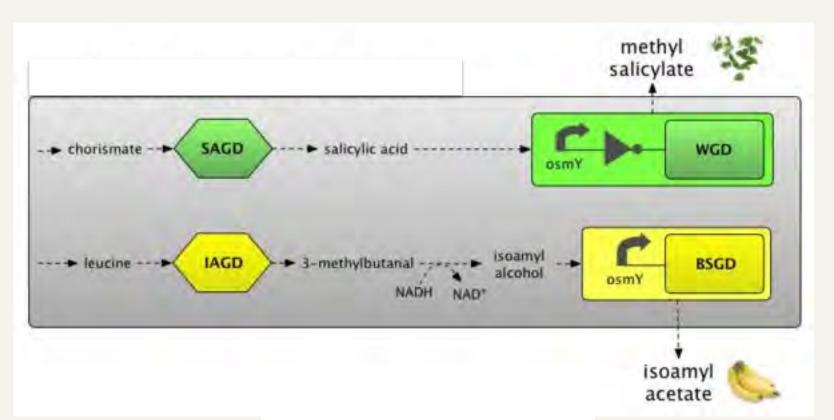


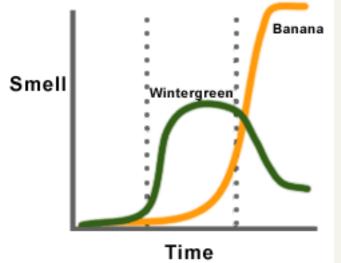




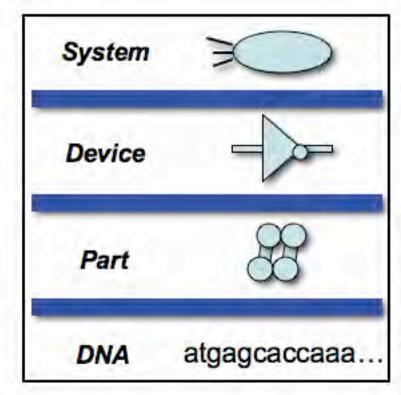


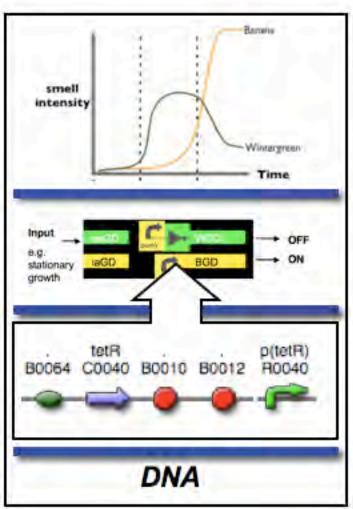




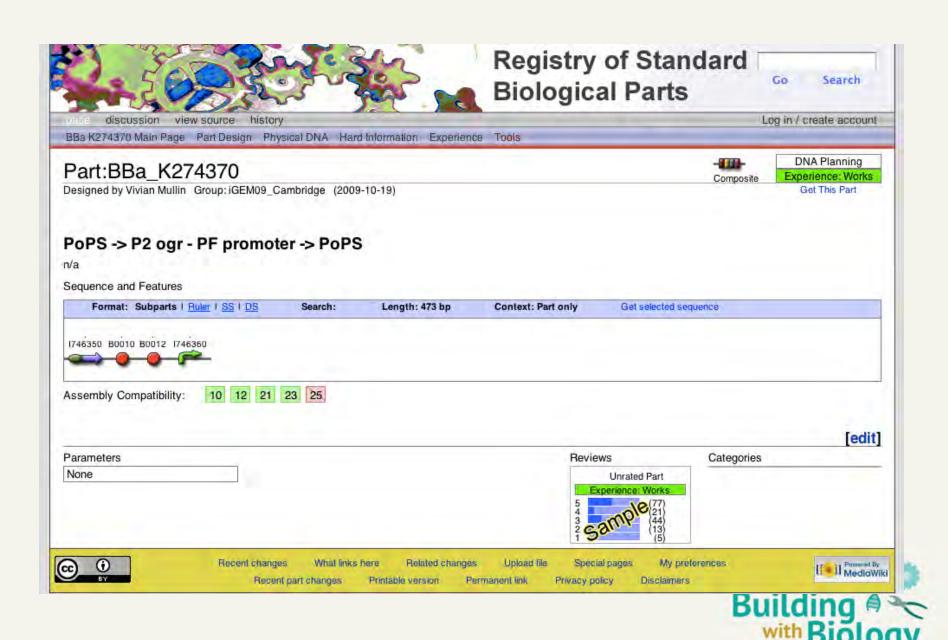


























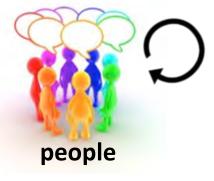


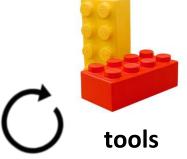
































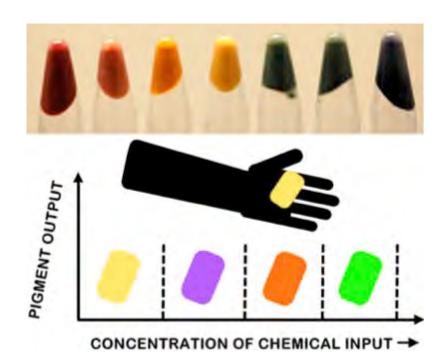




https://vimeo.com/19759432

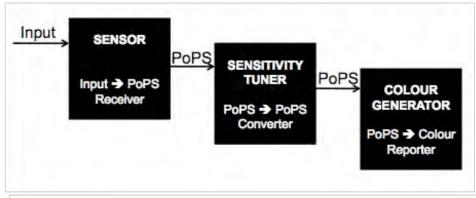


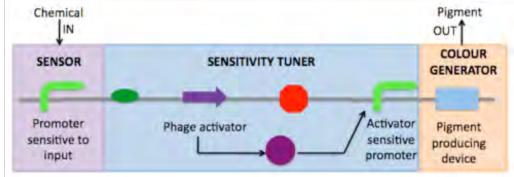




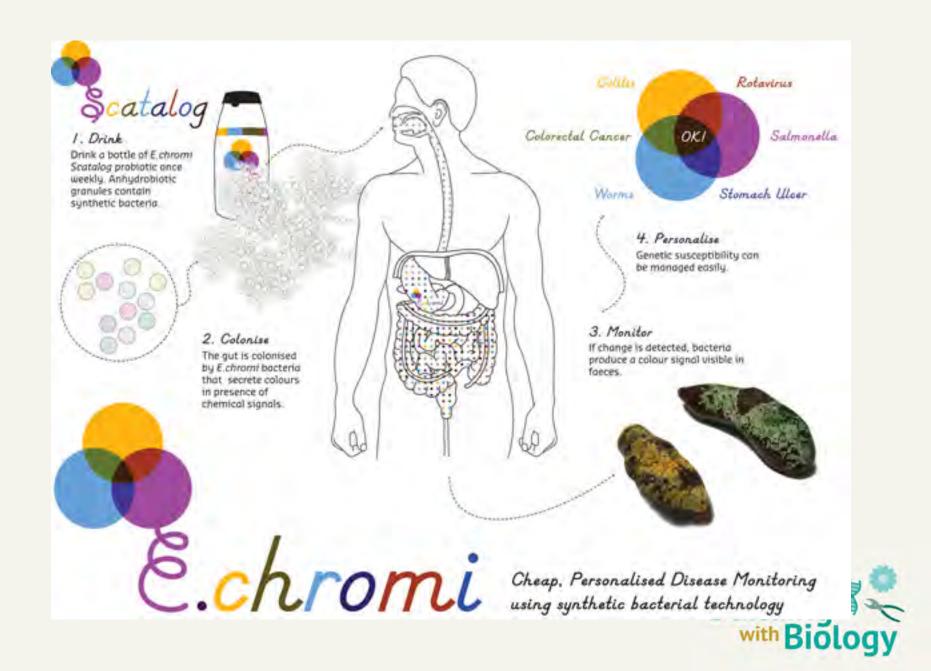


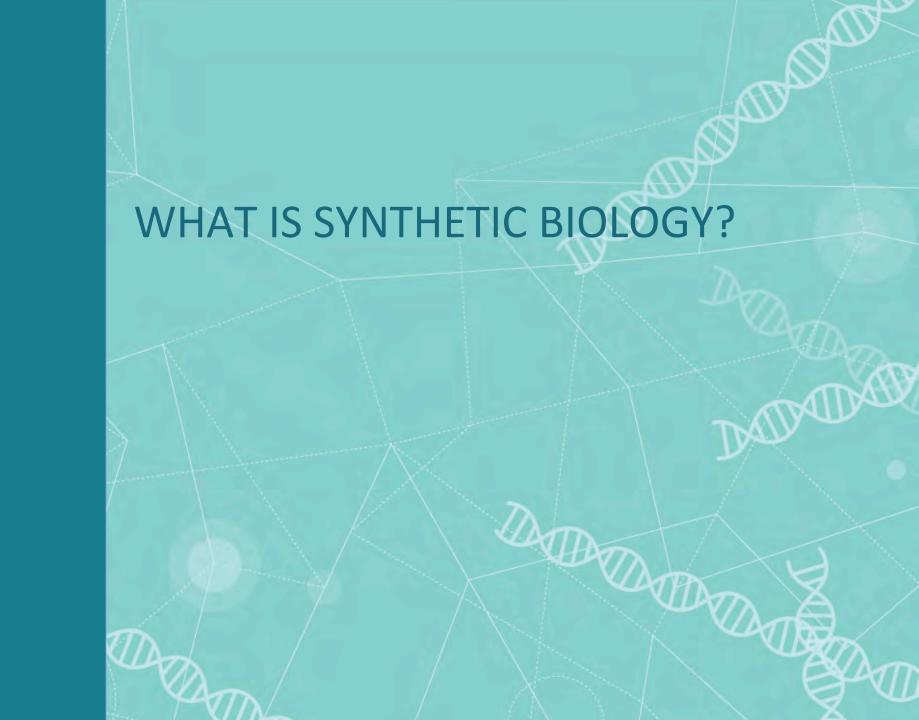






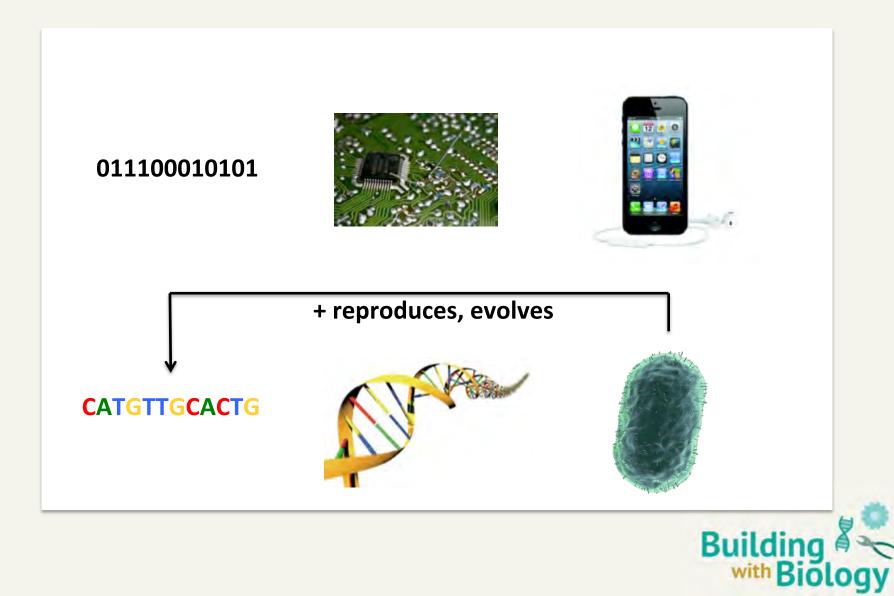
ilding & C

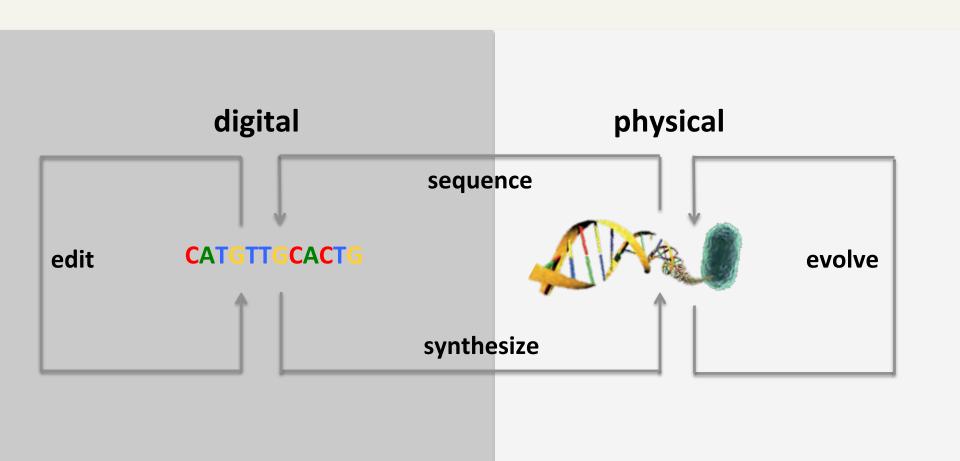




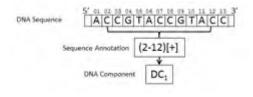








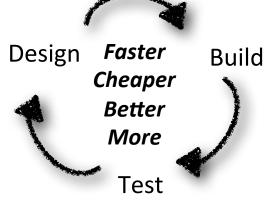




## **Engineering Design Cycle**















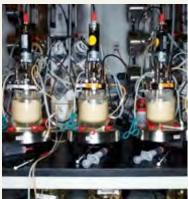






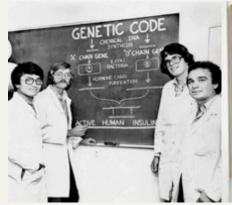


















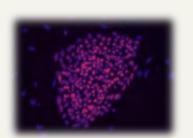
Single Genes

Multiple Genes: Pathways Multiple Pathways: Genomes

Multiple Genomes: Tissues















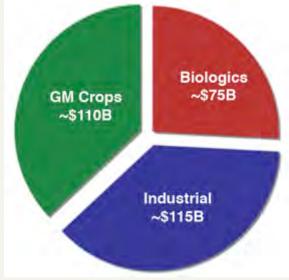






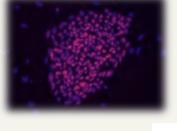


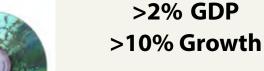
### 2011 US Revenue: Genetically Engineered 'Stuff'



















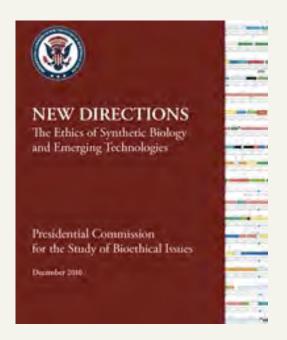


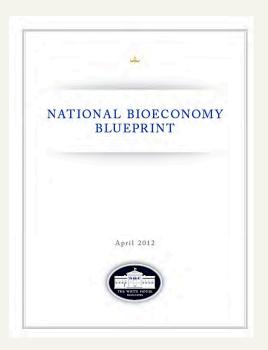




















#### INSIGHTS | PERSPECTIVES

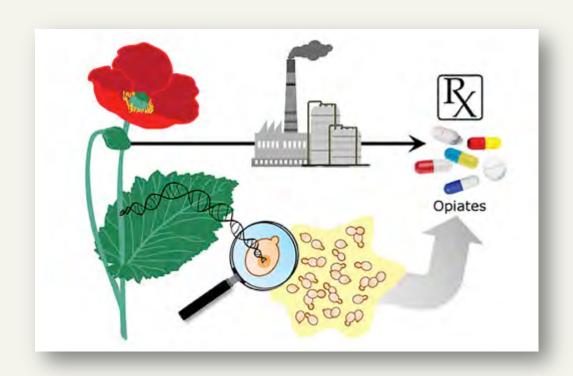


#### BIOTECHNOLOGY

### Regulating gene drives

Regulatory gaps must be filled before gene drives could be used in the wild







# THE PANDORA'S BOX CONGRESS

By Michael Rogers

140 Scientists Ask: Now that We Can Rewrite the Genetic Code, What Are We Going To Say?



# THE PANDORA'S BOX CONGRESS

By Michael Rogers

140 Scientists Ask: Now that We Can Rewrite the Genetic Code, What Are We Going To Say?

CONCLUSION: HUMAN SEX AS MODERATE-RISK EXPERIMENT





8,433
backers
\$484,013
pledged of \$65,000 goal

0
seconds to go





