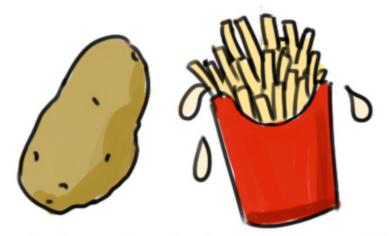
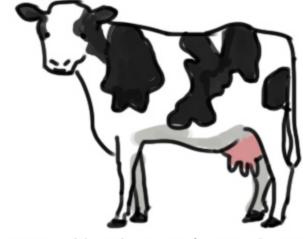
SynFlo Sifteo

An Interactive Installation and Introduction to Synthetic Biology

Examples of genetically modified organisms





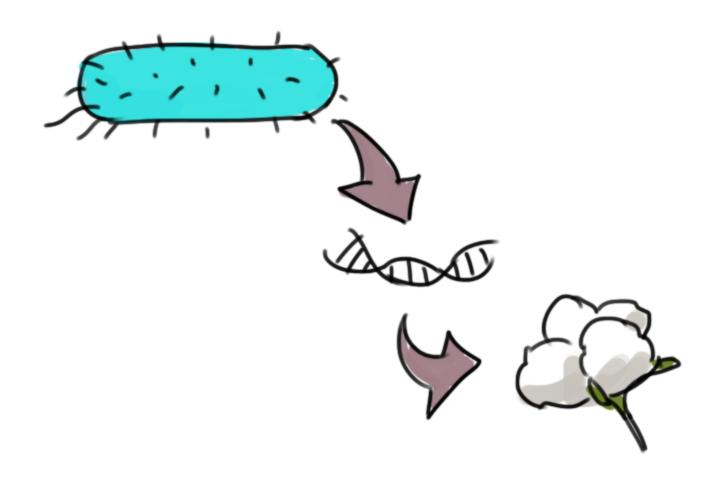


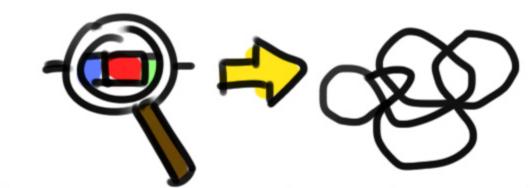
cows that produce healthier milk

potatoes that absorb less oil

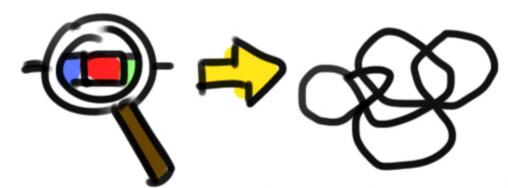
Synthetic biology vs. genetic engineering

Genetic engineering





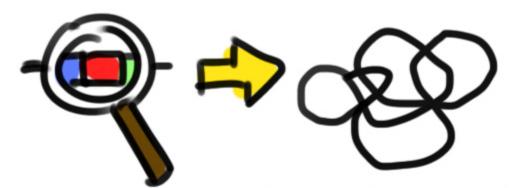
focuses on systems of genes/gene products



focuses on systems of genes/gene products



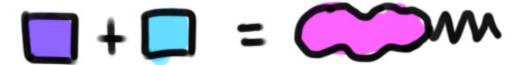
adding to or modifying existing organisms



focuses on systems of genes/gene products



adding to or modifying existing organisms

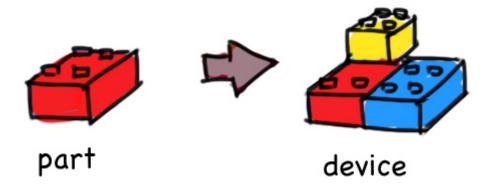


creating new organisms with tailored properties

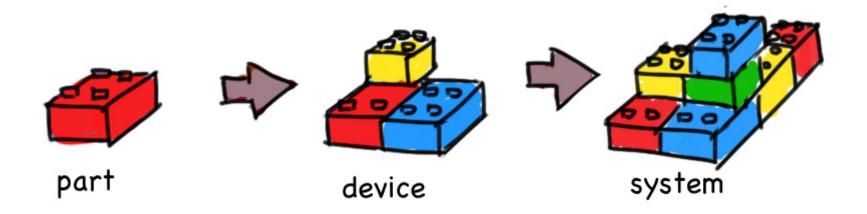
Abstraction



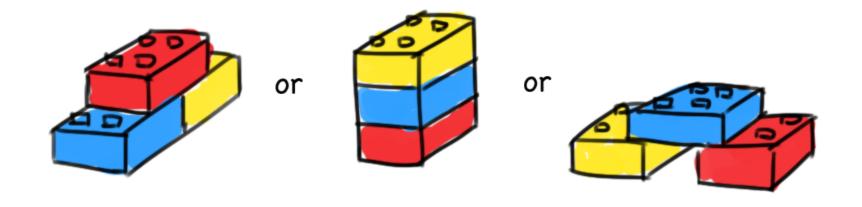
Abstraction

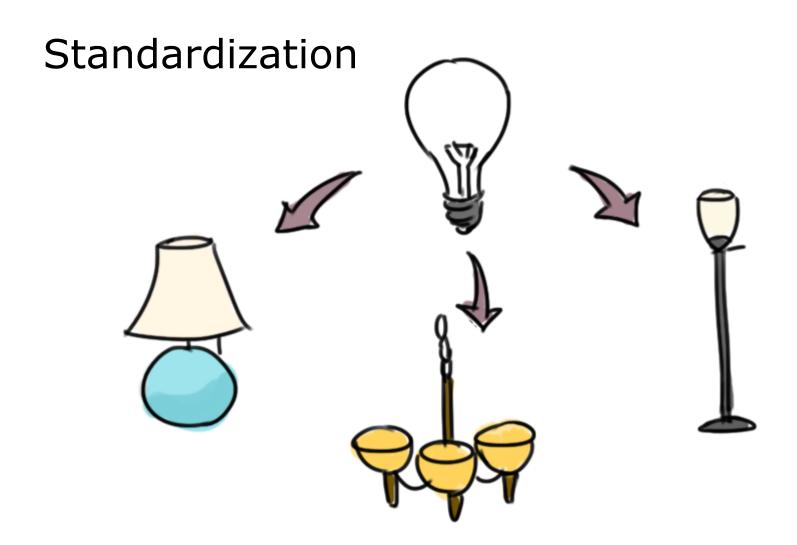


Abstraction

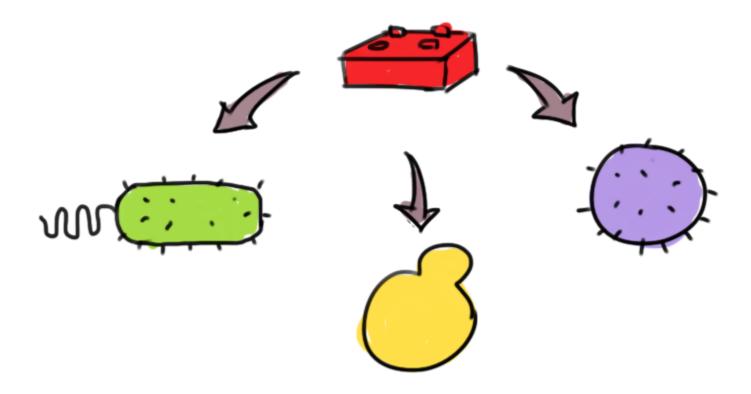


Modularity





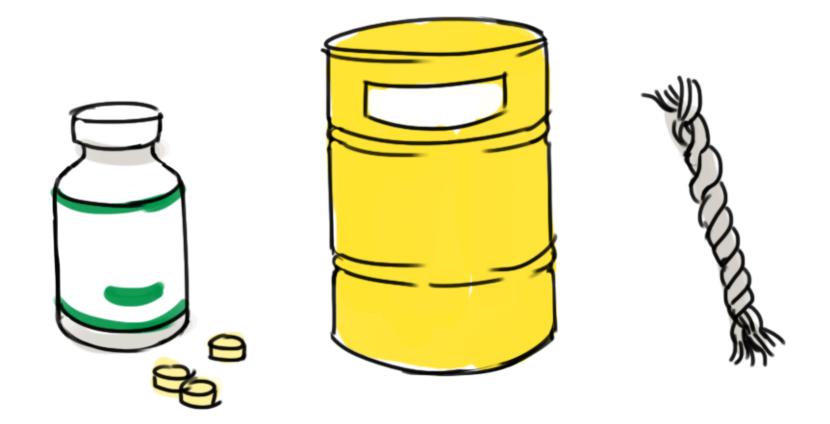
Standardization



Significance

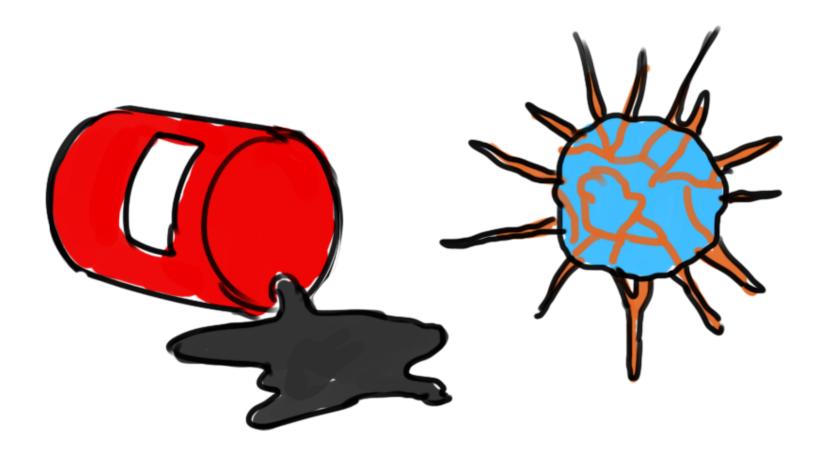
Benefits

Synthesis of chemicals, materials and biopharmaceuticals



Benefits

Biosensors



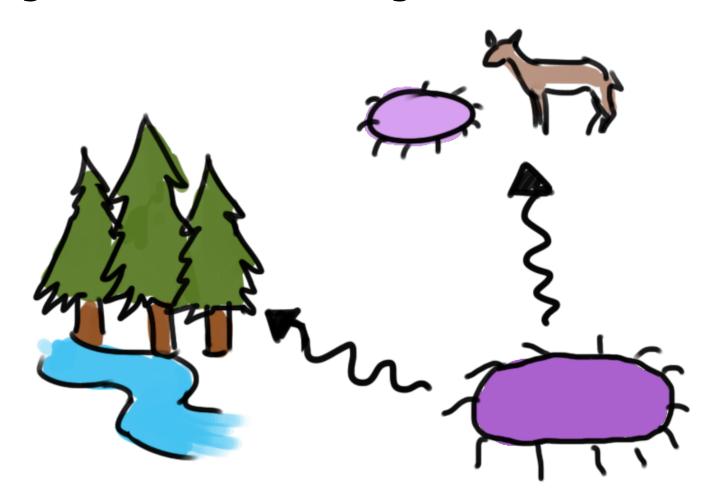
Risks and concerns

Lack of regulation



Risks and concerns

Organisms interacting with environment

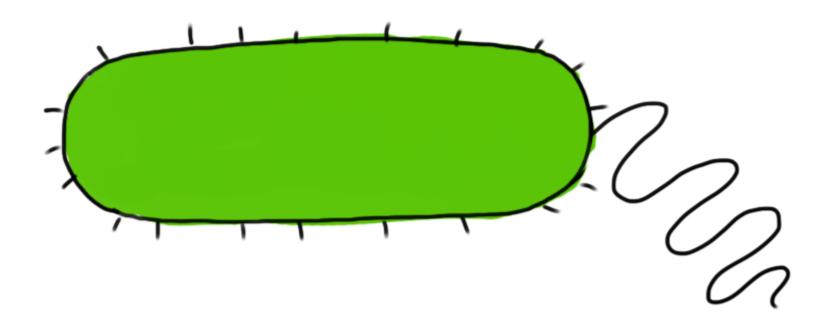


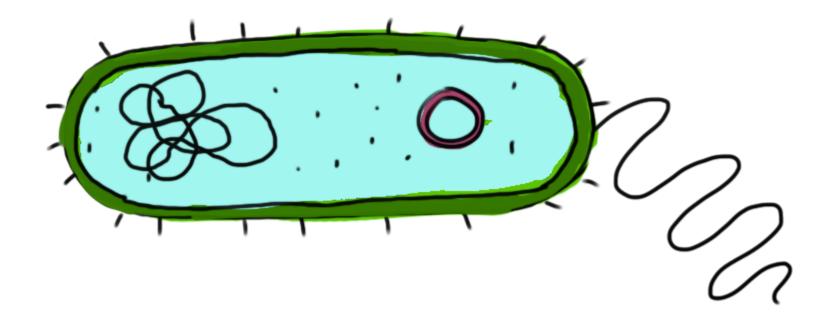
iGEM

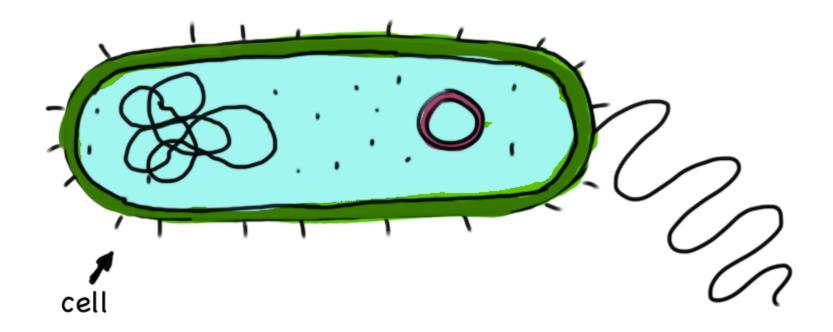
International Genetically Engineered Machine Competition (iGEM)

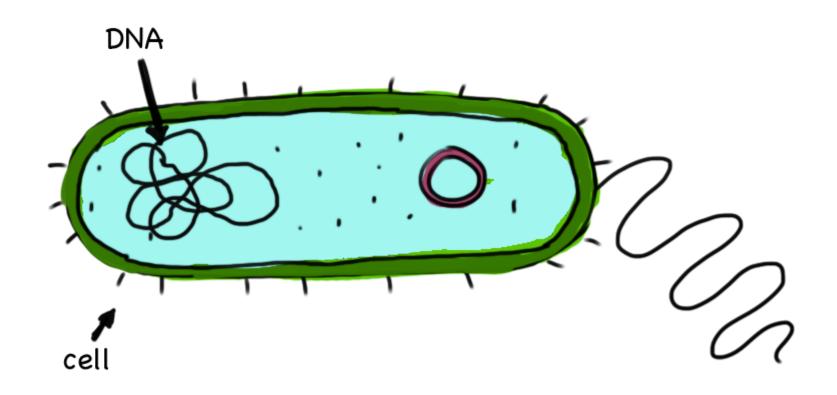


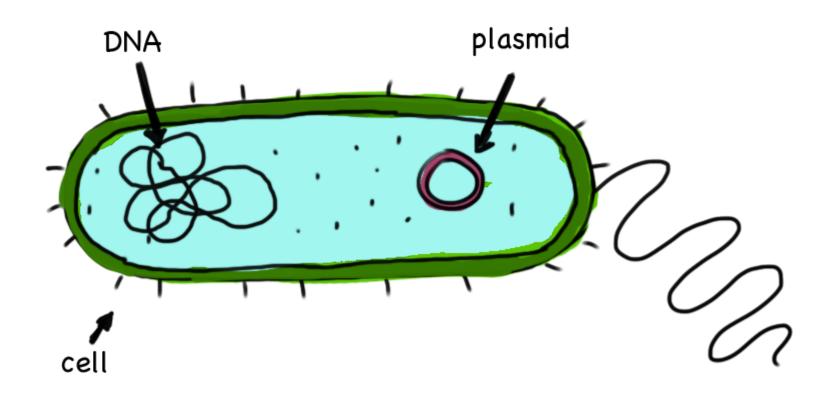
Science!

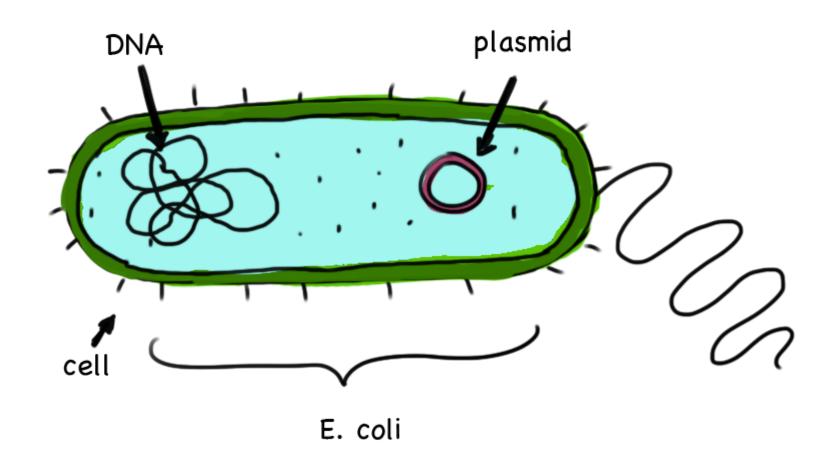












E. chromi

E. chromi

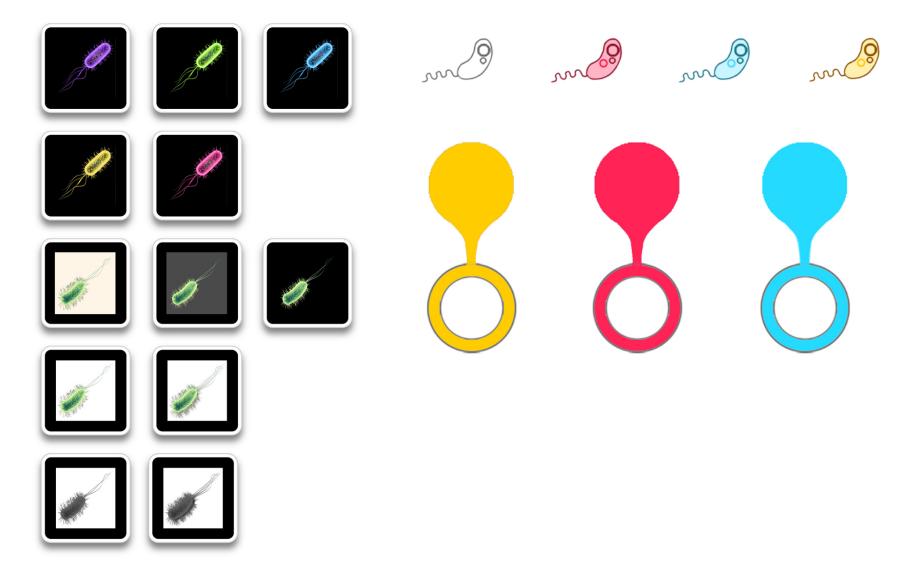


SynFlo Sifteo

Sifteo cubes



SynFlo



Works Cited