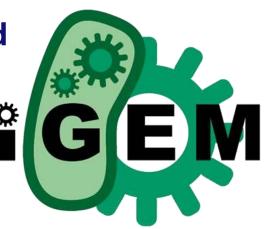


Where innovation starts

iGEM

 International Genetically Engineered Machine competition



- Competion for students in synthetic biology
- Aim: to build simple biological systems and operate them in living cells











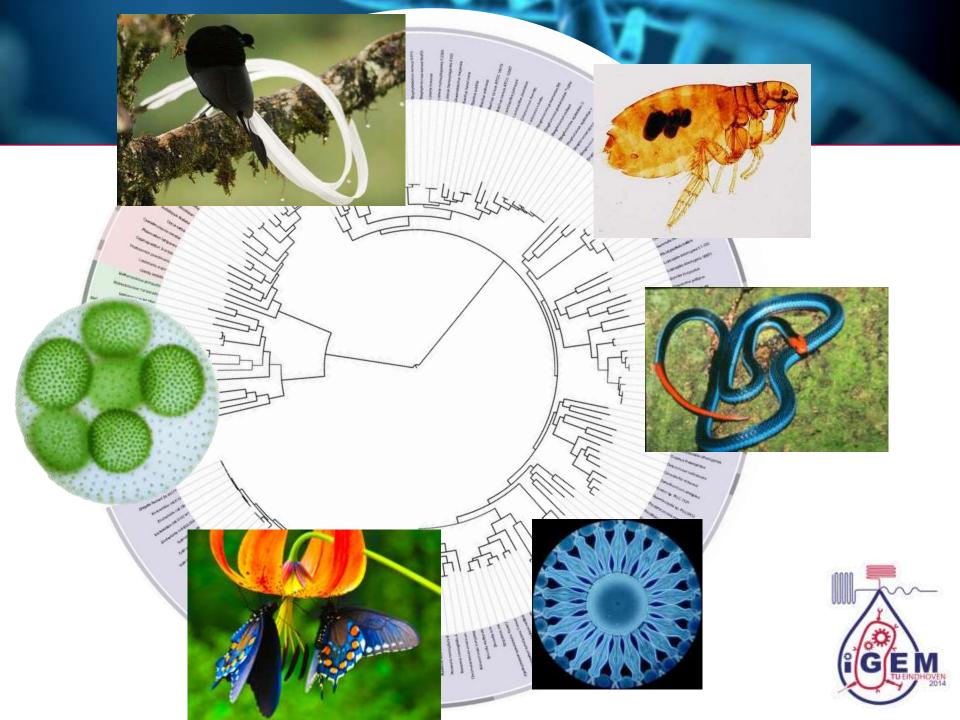












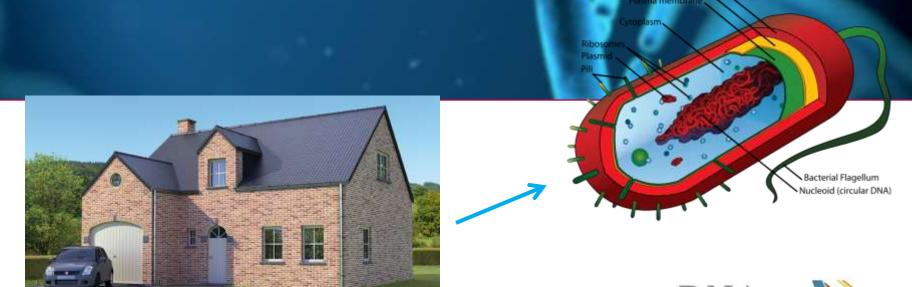


Synthetic Biology

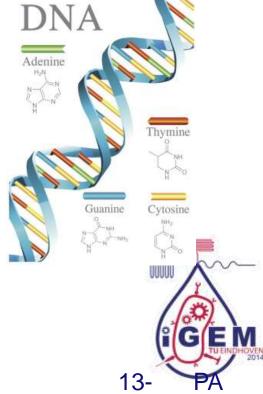
What does it look like?







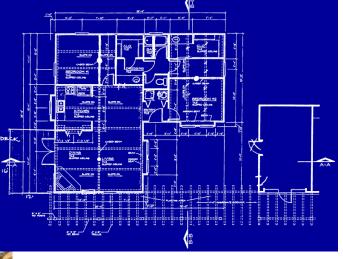
















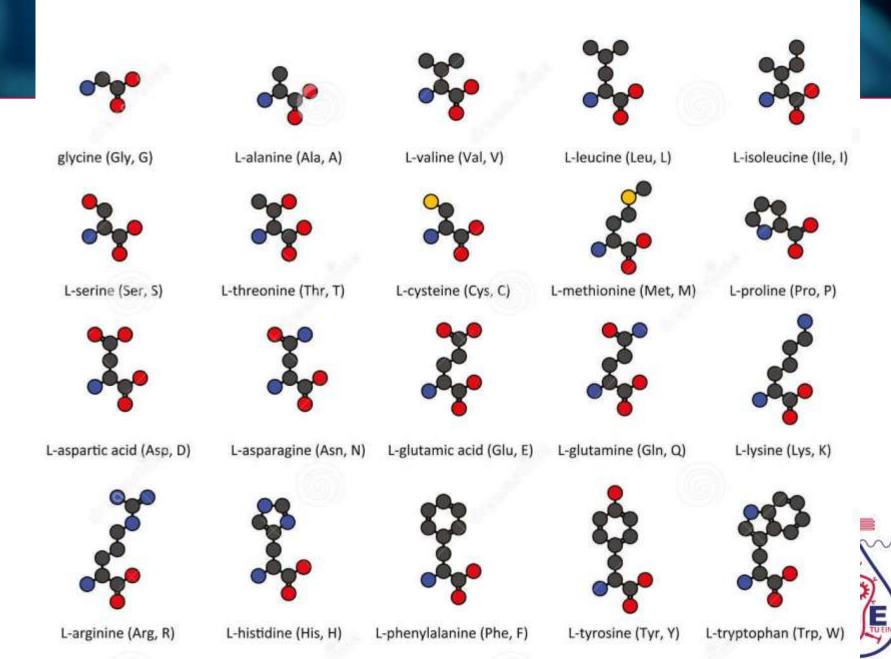




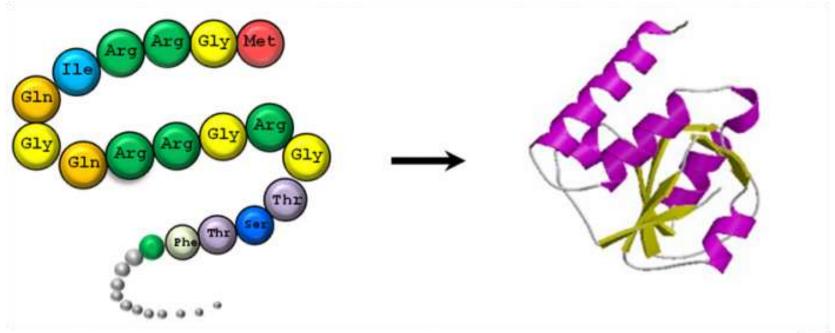






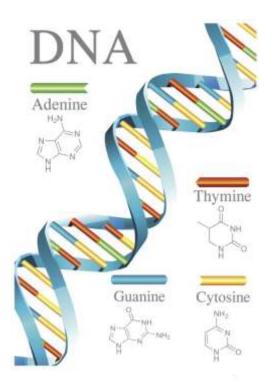


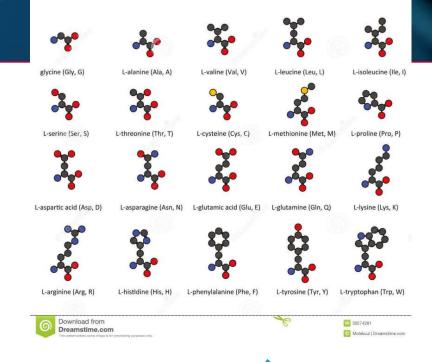
Proteins

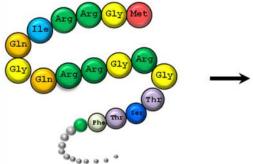




In short











And now, what can we do with this knowledge?



Protein A



Protein B





Protein A

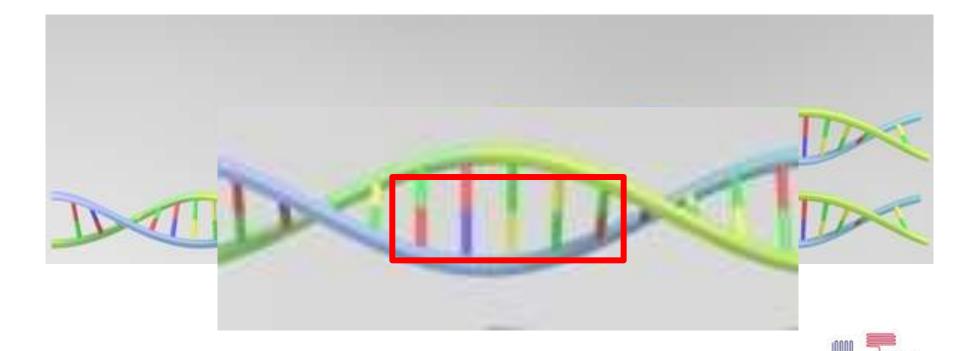


Protein B









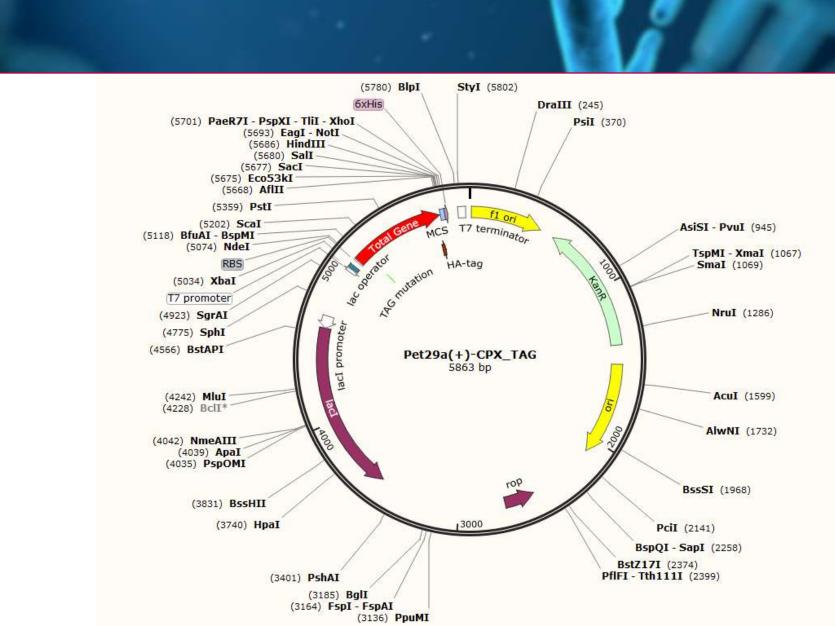
UUUU

E

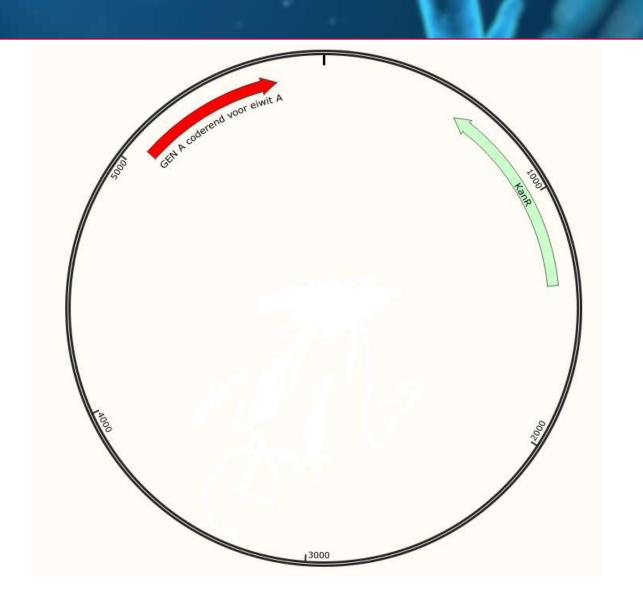






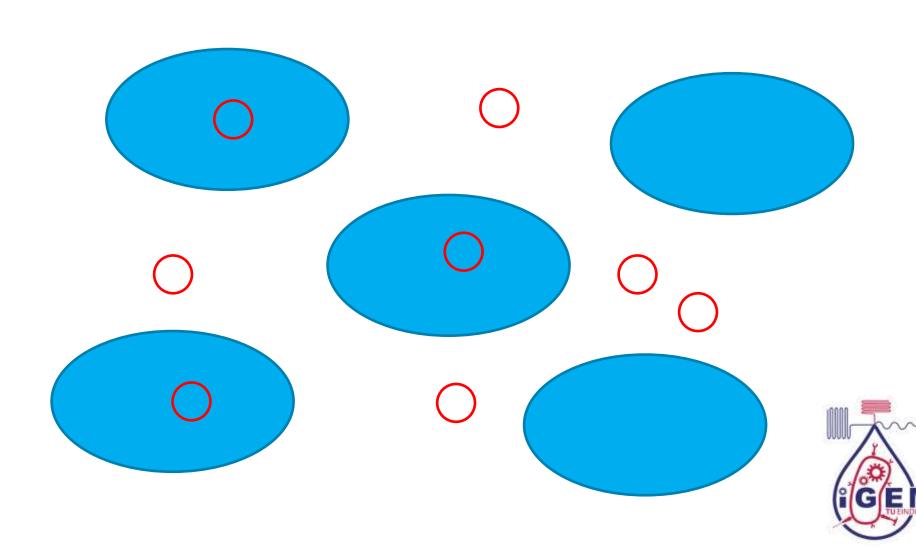


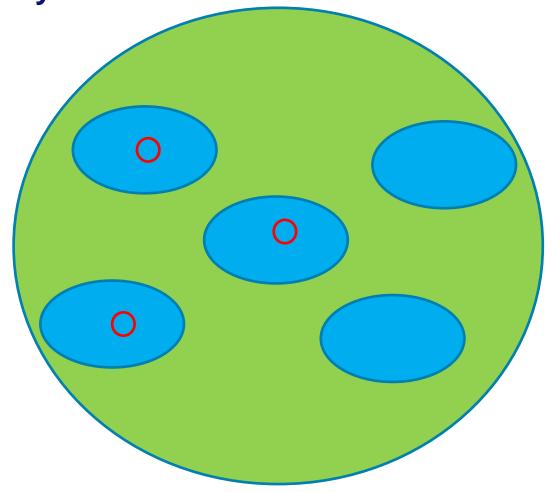




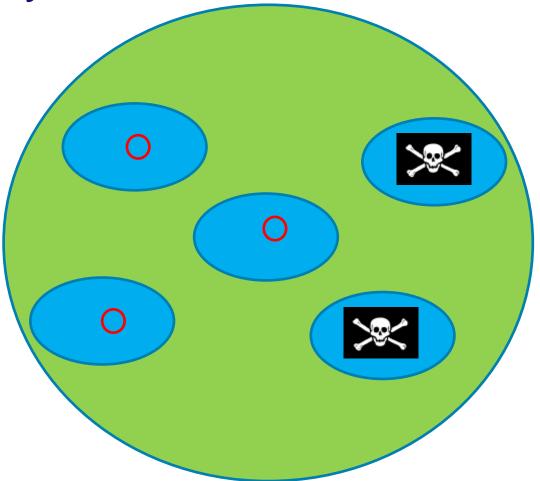


Selection mechanism?



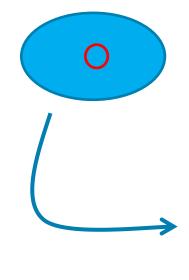








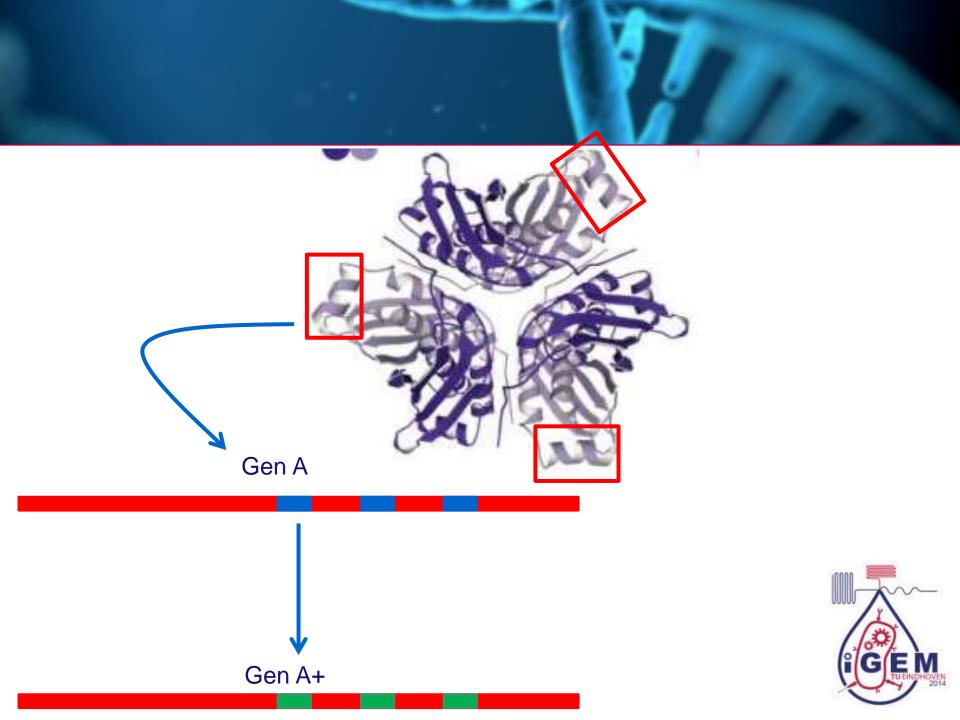


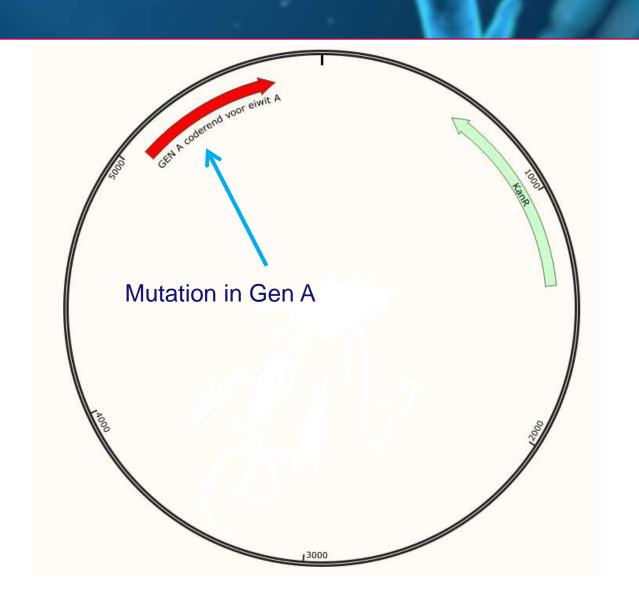




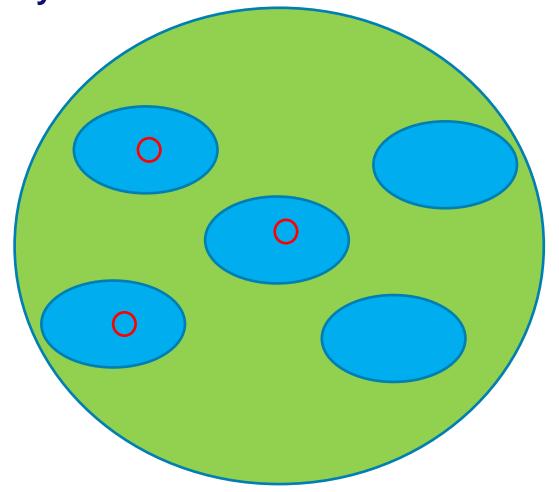




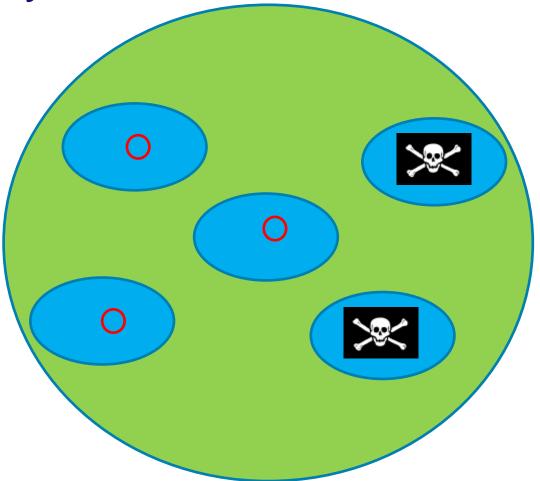






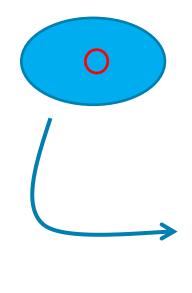










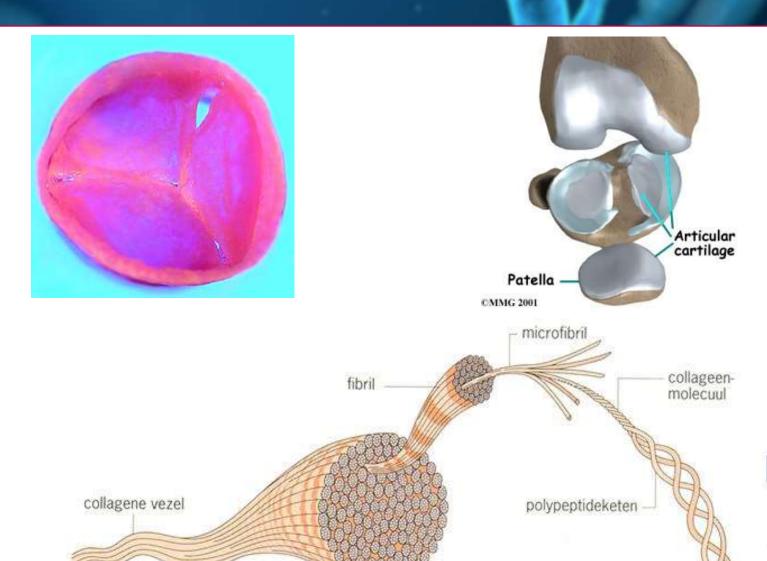






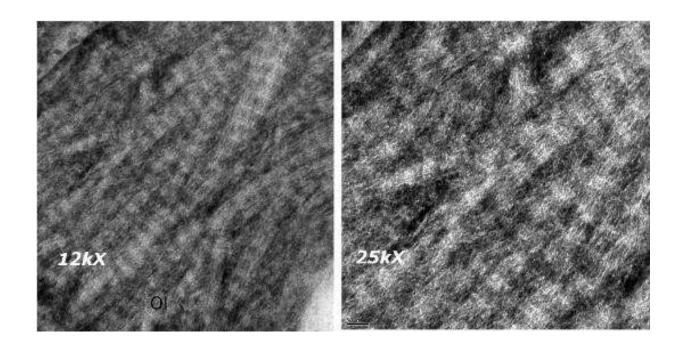


Tissue Engineering



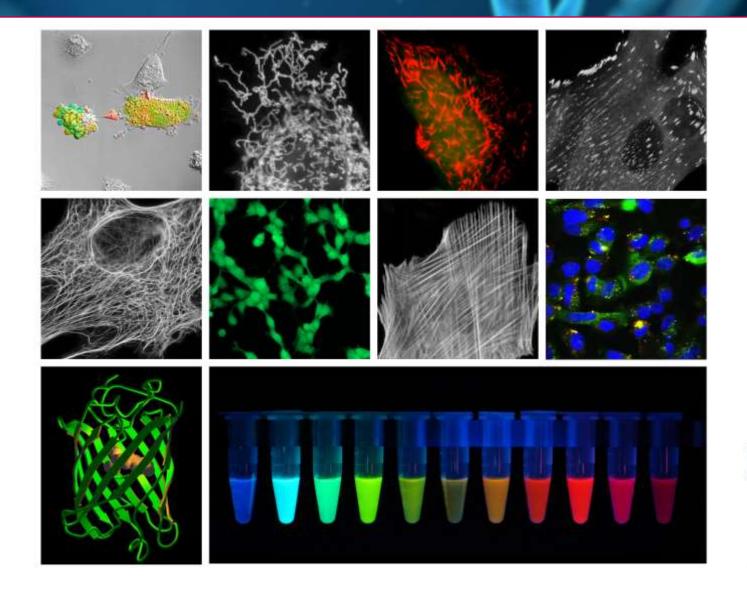






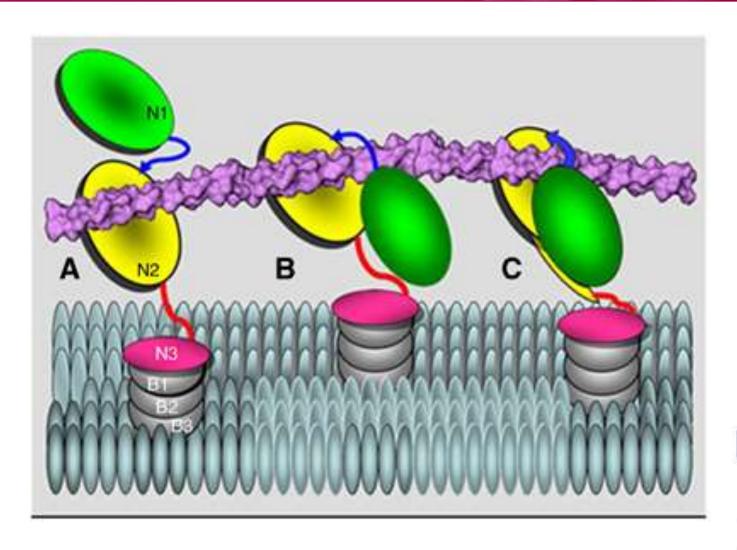


Fluorescent protein



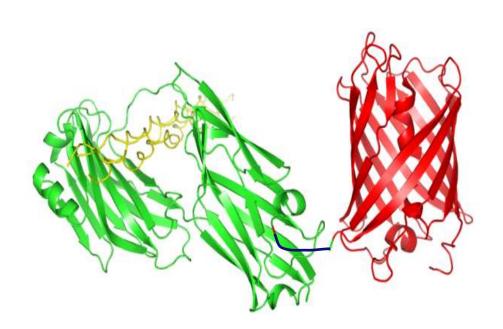


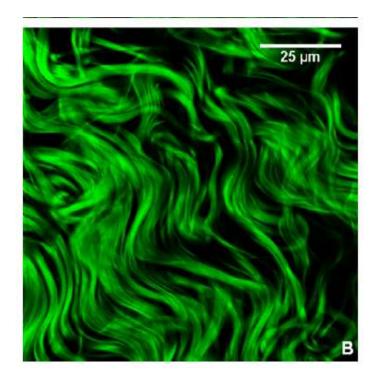
Collagen binding protein





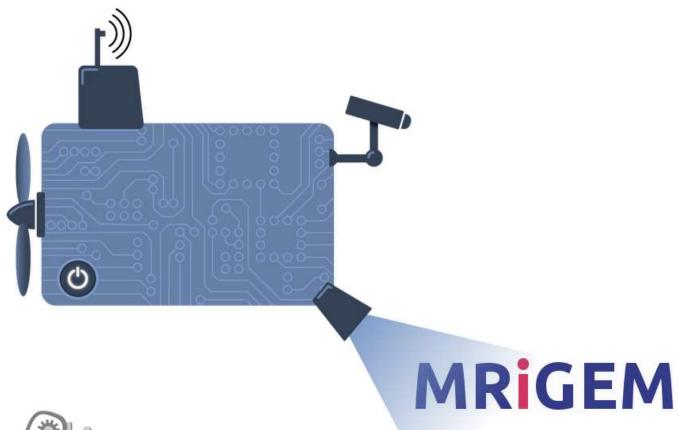










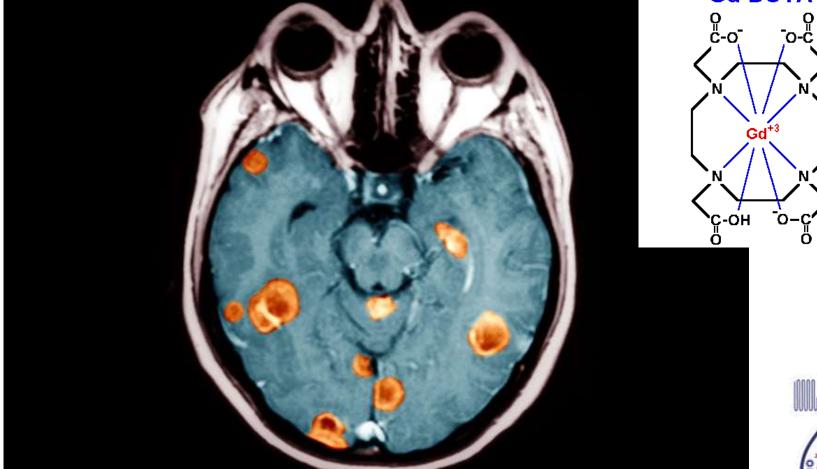




TEAM TU-EINDHOVEN

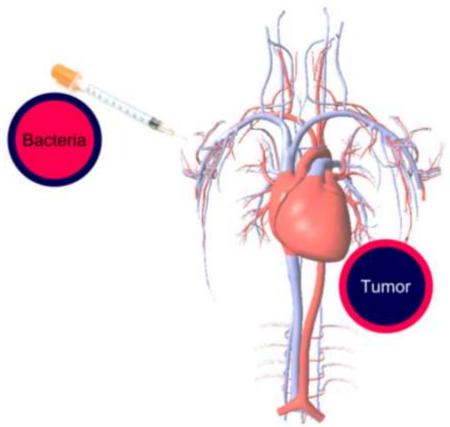




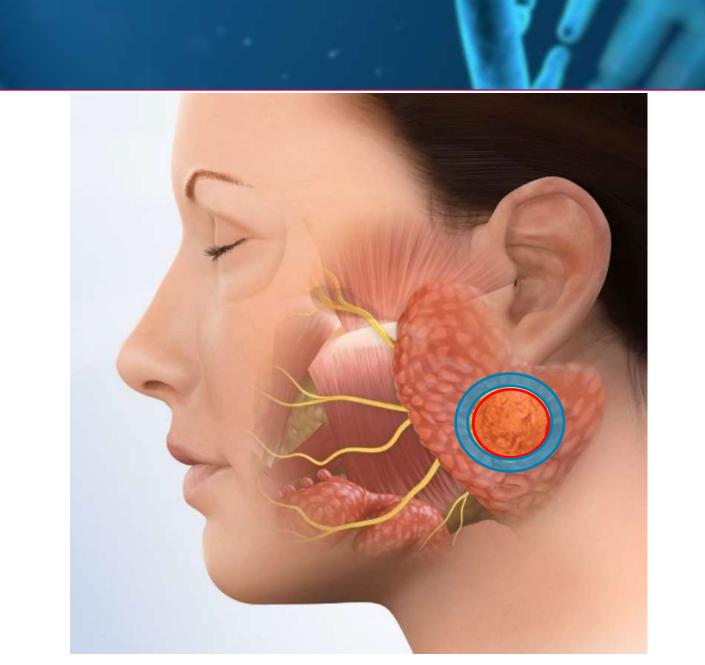






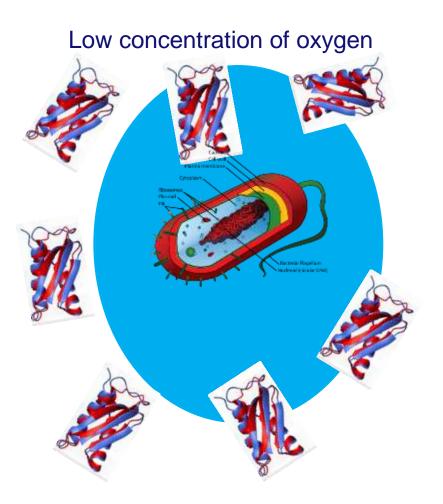




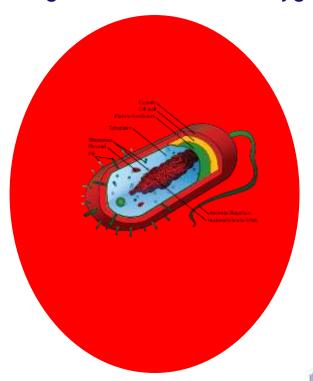




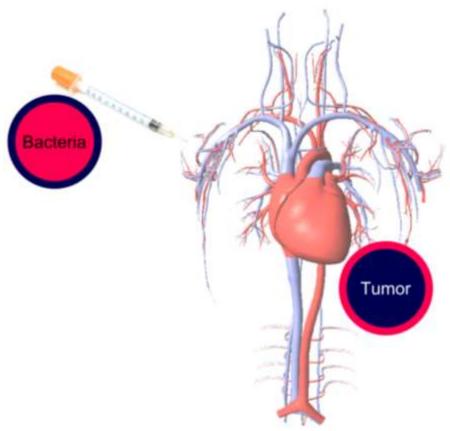
Mechanism



High concentration of oxygen









'I can create Neanderthal baby, I just need willing woman'

A scientist has said it would be possible to clone a Neanderthal baby from ancient DNA if he could find a woman willing to act as a surrogate.



"You don't see anything sacrilegious about this?"

"I wouldn't say sacrilegious," Church responds. "Humans have been manipulating humans in many ways for many years."

George Church, 2010



Thank you for your attention!

