

Tools & Techniques – Enabling Innovation

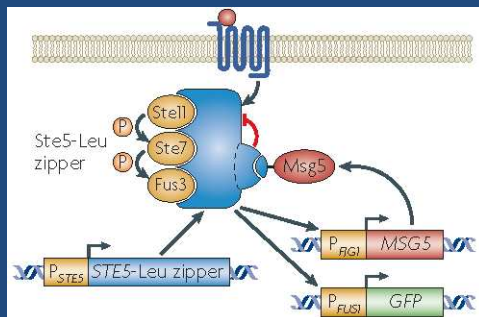
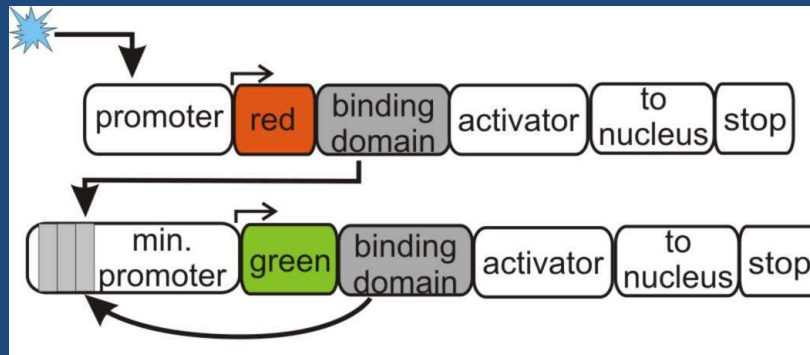
Caroline Ajo-Franklin

Lawrence Berkeley National Lab

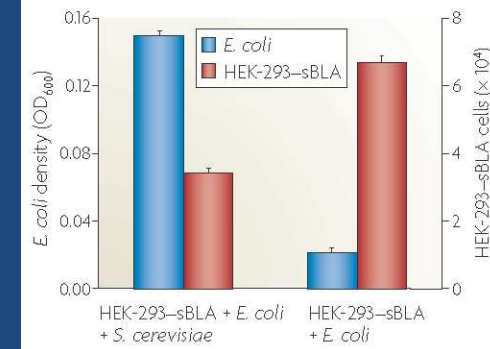
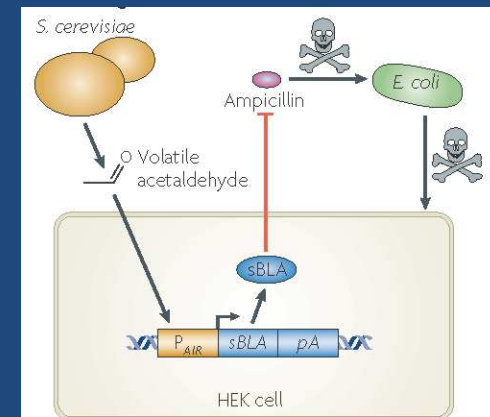
08 July 2009

State of the Art Tools

Gene expression



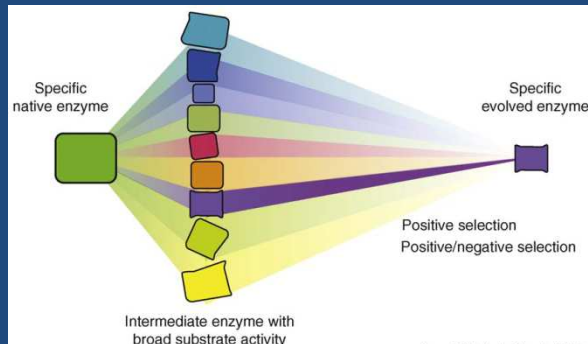
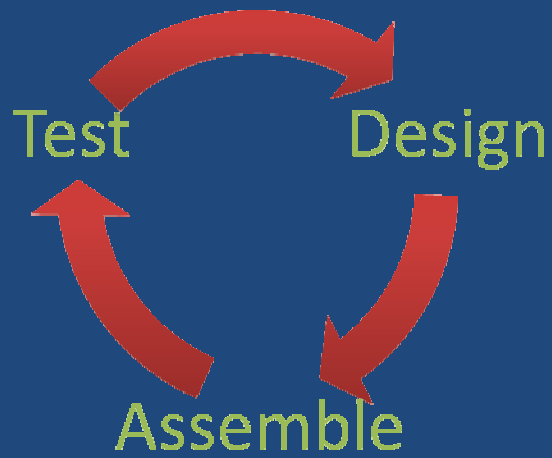
Intercellular communication



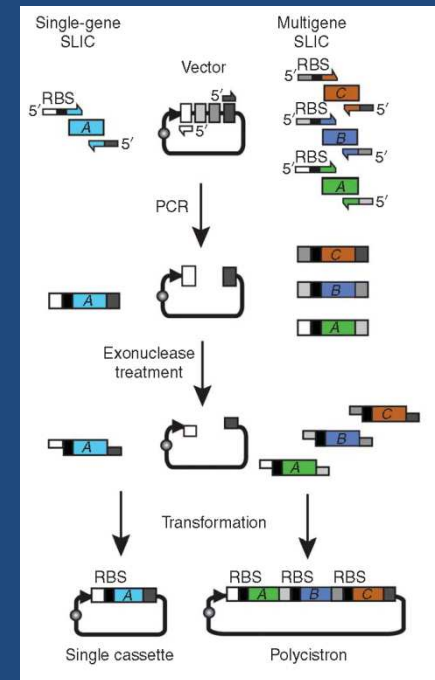
Ajo-Franklin et al Genes Dev 2007; Bashor et al Science 2008; Weber et al PNAS 2007.

State of the Art Techniques

Design

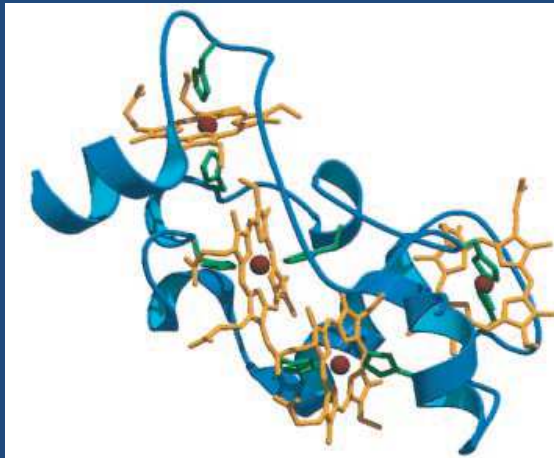


Physical assembly



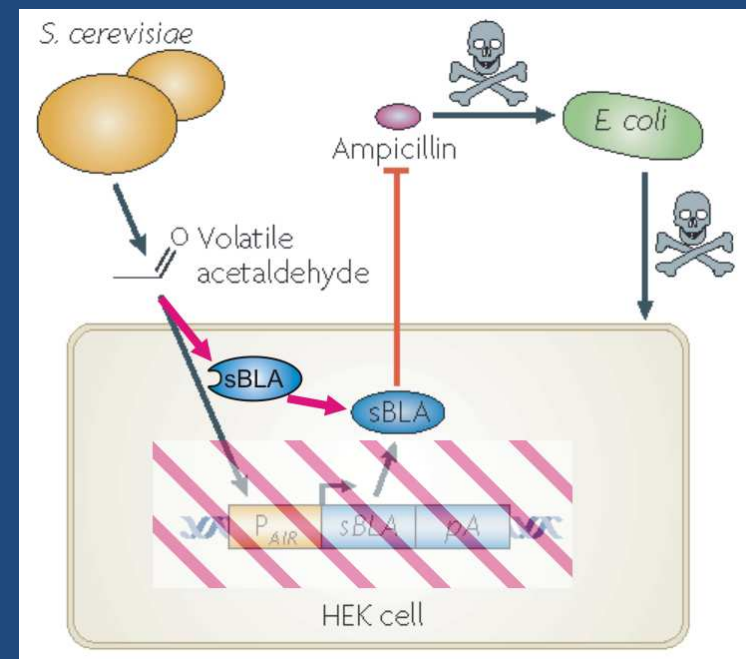
Frontiers For Tools

New function



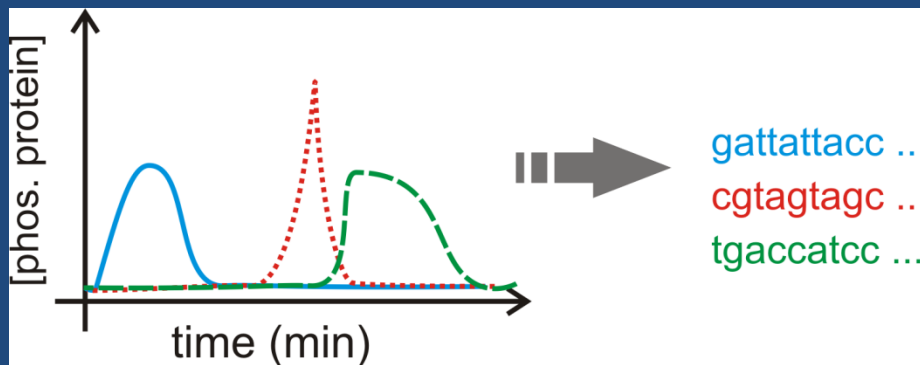
Orthogonal spaces & components

Interfaces



Technical Hurdles

Design to sequence



Heterologous expression
for complex proteins

Combinatorial Assembly

