

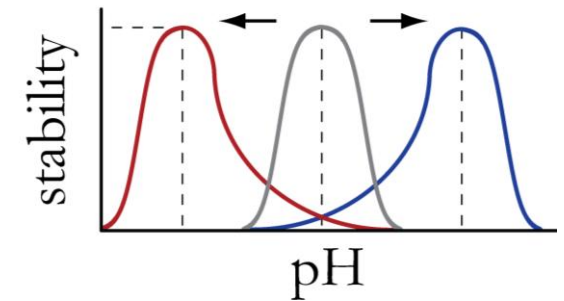
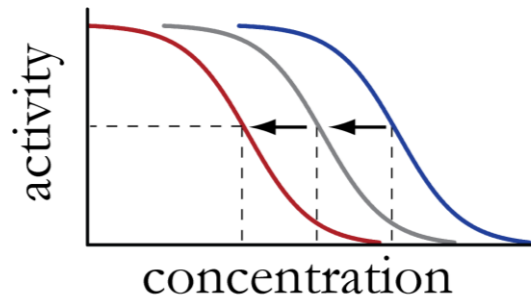
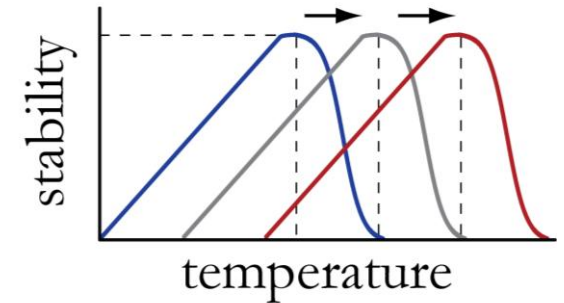
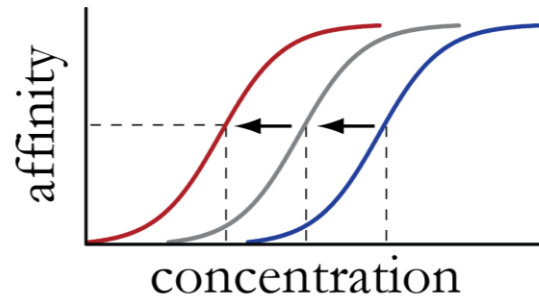
Molecular evolution of peptides and proteins for biomedical and biotechnological applications

Alessandro Angelini

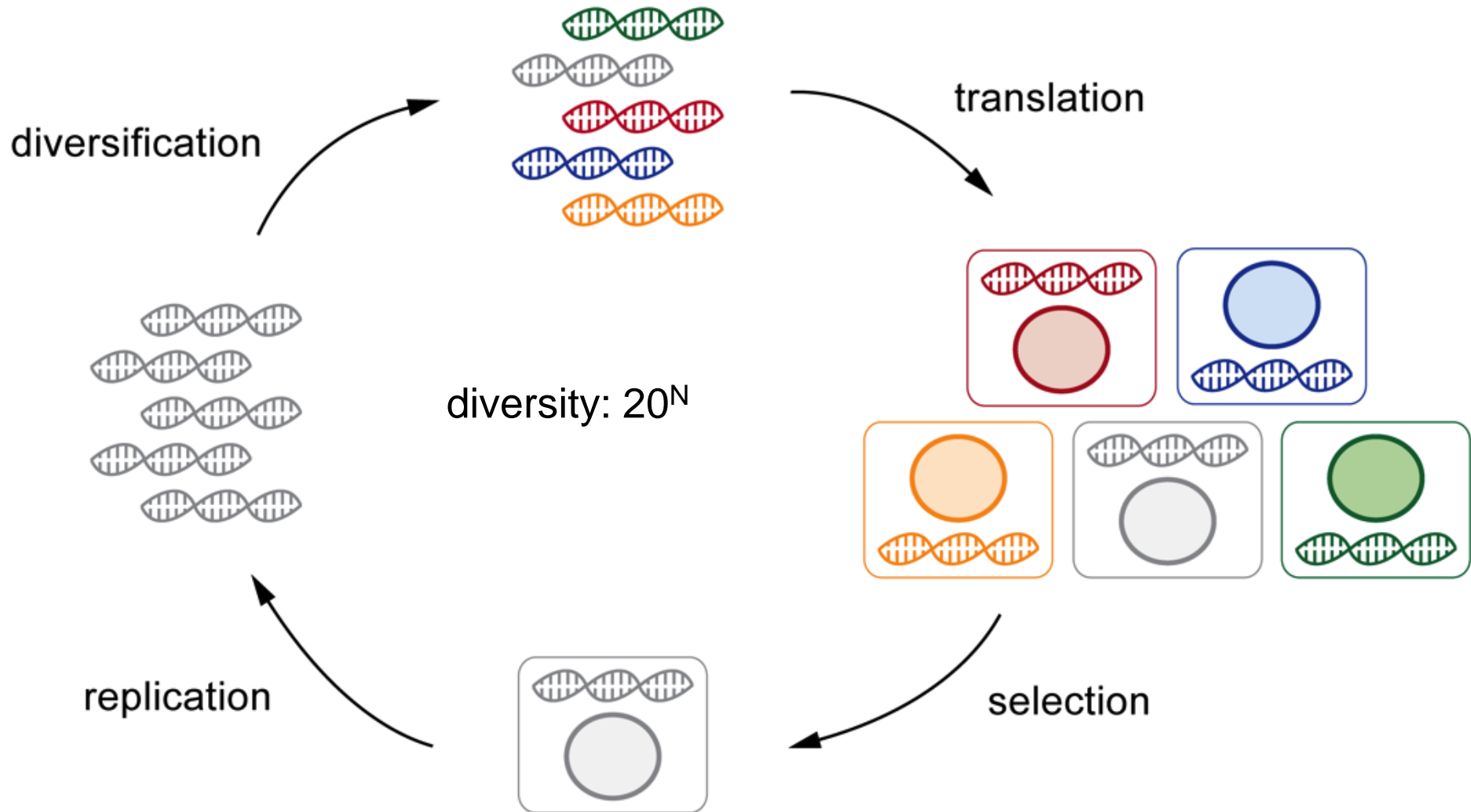
June 24, 2019

Properties of peptides and proteins that can be modified

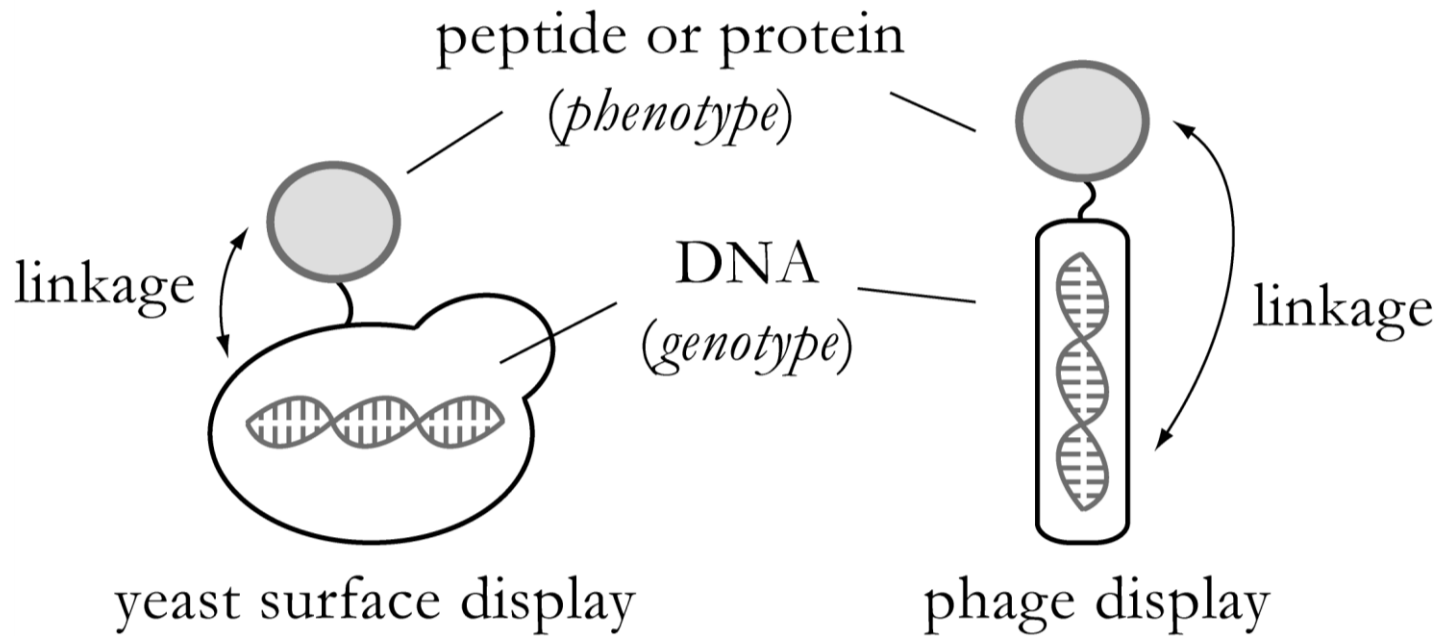
- affinity
- activity
- specificity
- stability
- size
- modularity



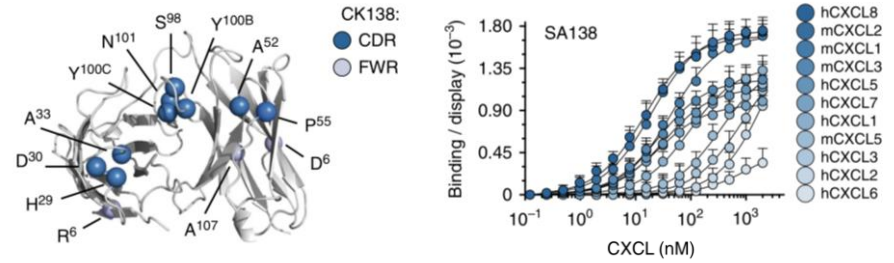
Directed evolution of peptides and proteins



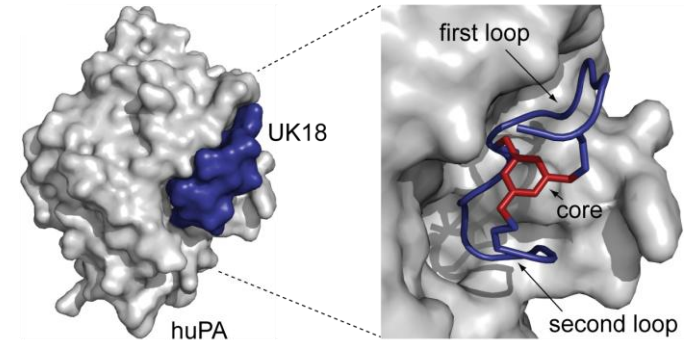
Directed evolution: genotype-phenotype linkage



- multispecific protein fusions for the cancer immunotherapy



- peptide inhibitors for the treatment of chronic inflammatory disease



- novel methods for the *in vitro* evolution of proteins and peptides

