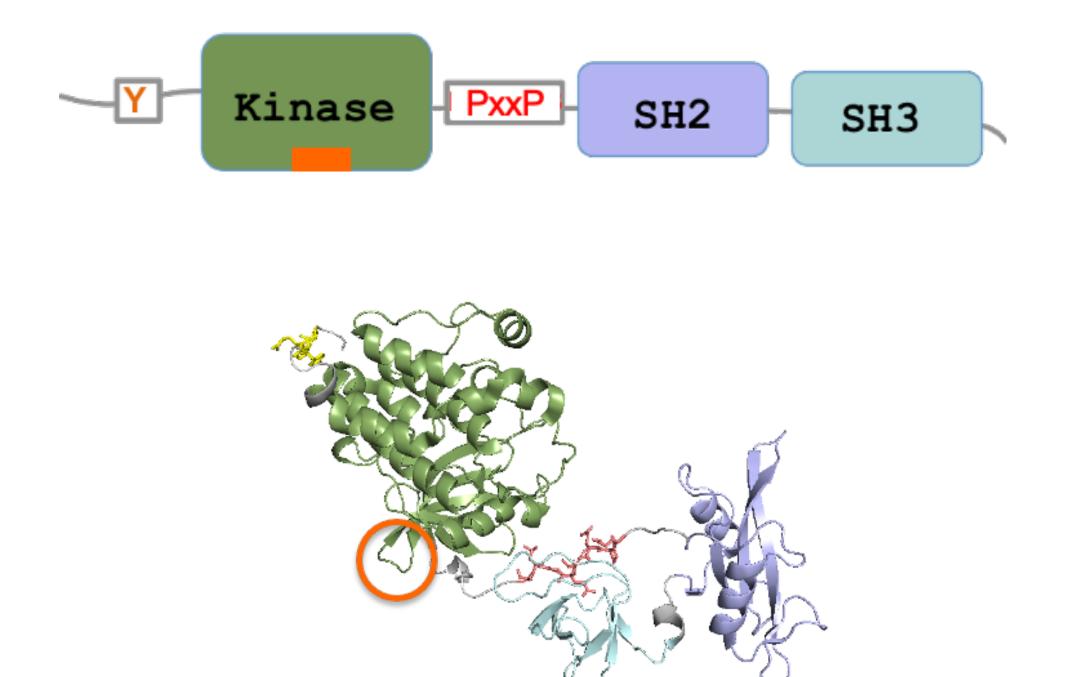
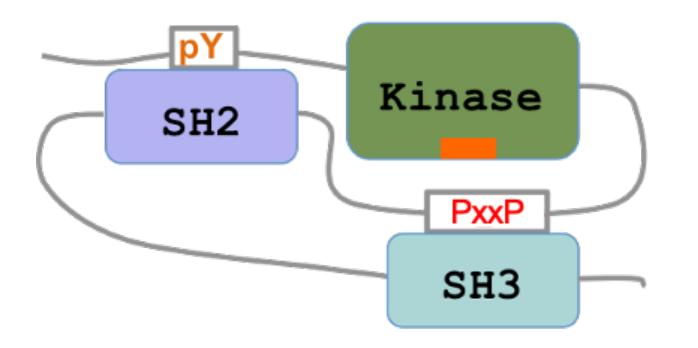
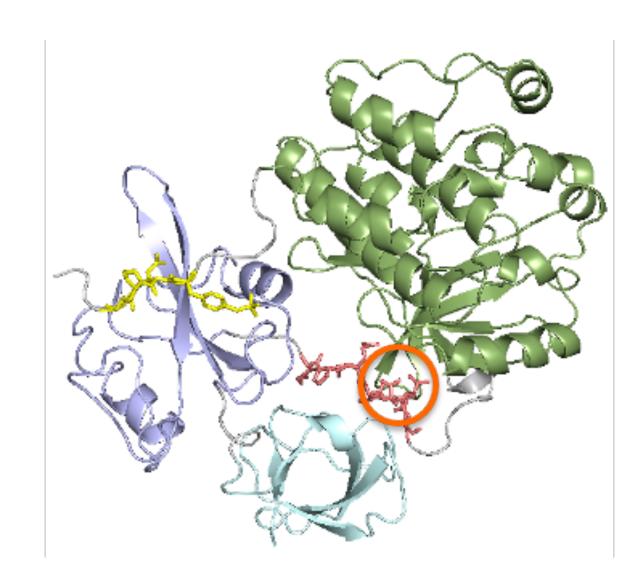
Modularity in Proteins: c-Src

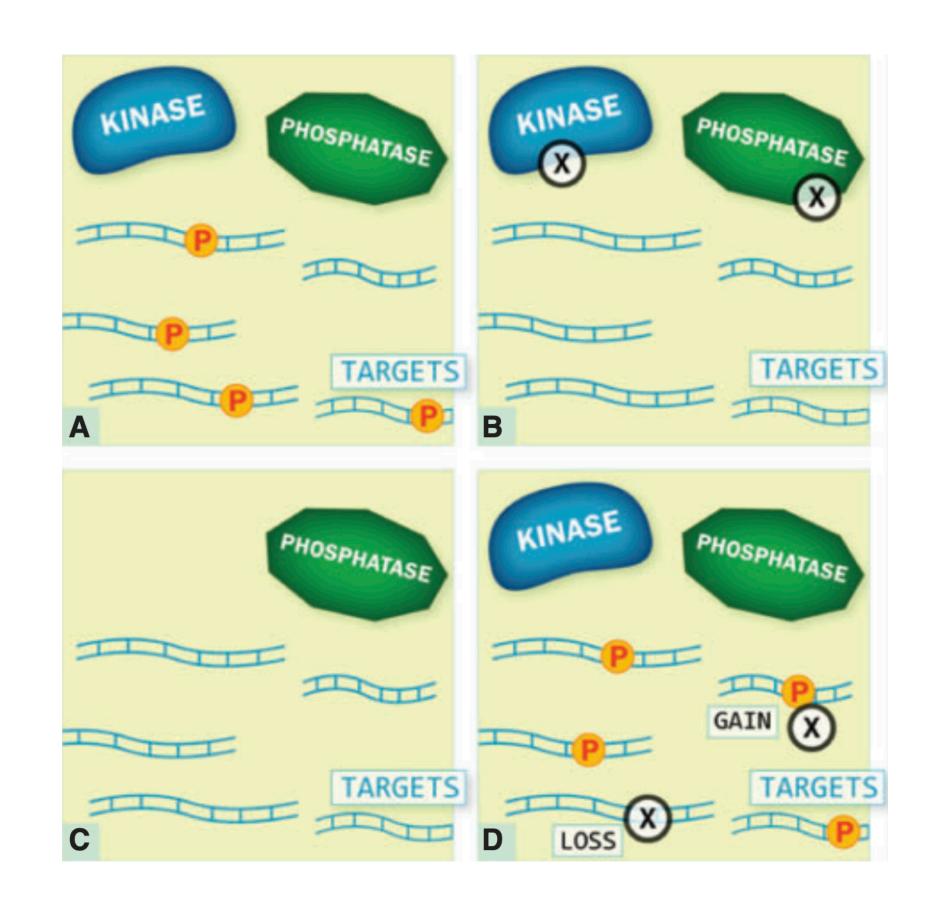


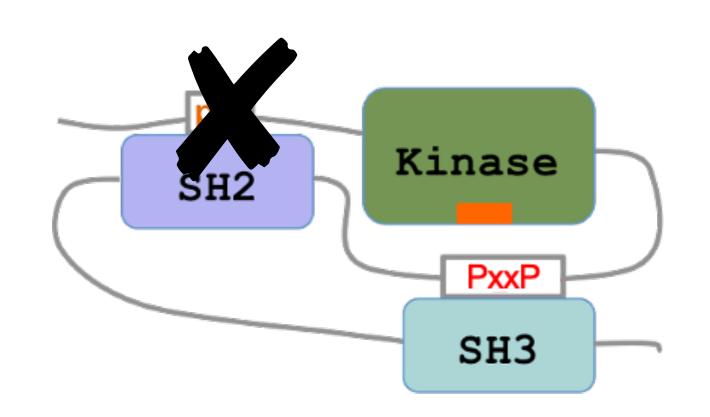


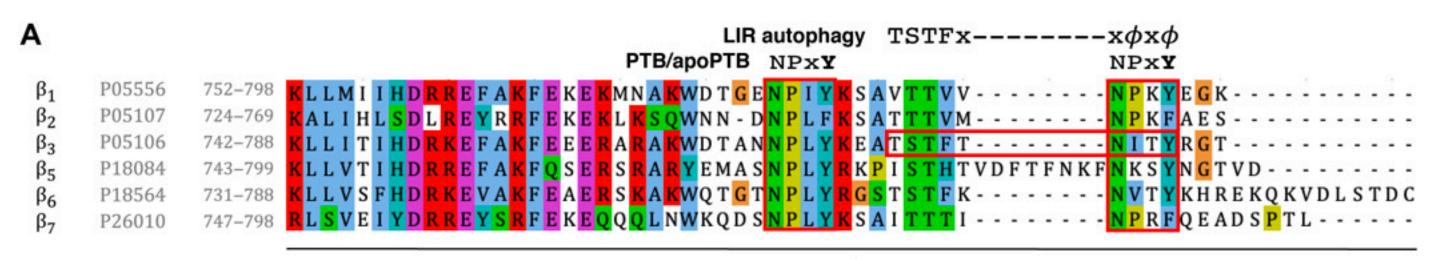




Modeling Phosphorylated Peptides to Protein Domains



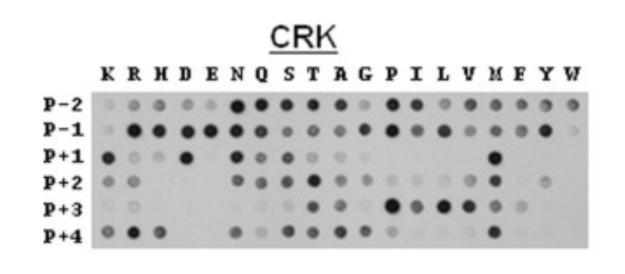


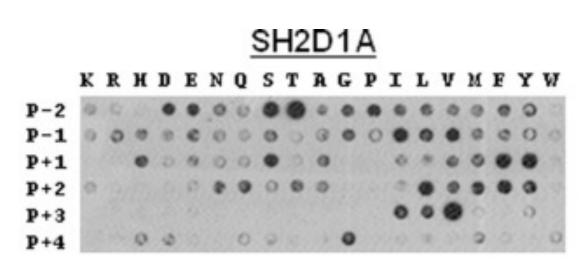


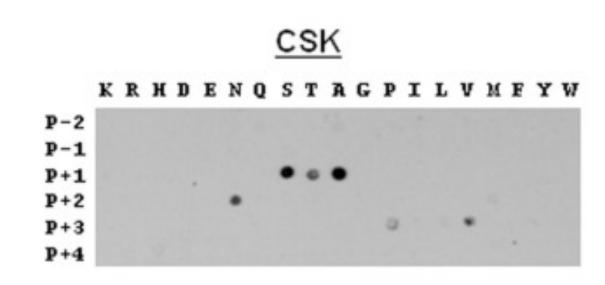
Cytosolic C terminus

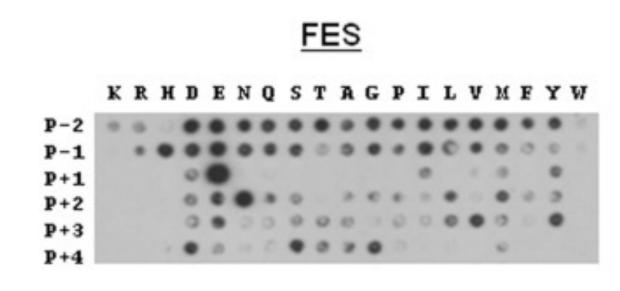


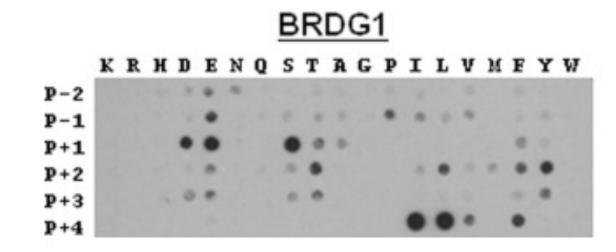
Modeling Phosphorylated Peptides to Protein Domains

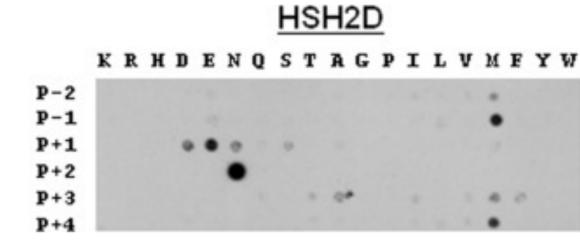












- From Spot Array we know different
 phosphopeptides have different affinities
 for their target domain
- This experiments give only relative affinities
- Time consuming, expensive



Modeling Phosphorylated Peptides to Protein Domains

- AlphaFold does not model amino acid modification
- AlphaFold is not appropriate to study single mutations in the global structure
- Molecular Dynamics (GROMACS) can model phosphorylation sites
 - CHARMM-GUI is necessary to create the topology files

