Ab Initio Structure Prediction
Without Sequence Homologs

Fragment Assembly
- Hydrophobic burial
- Electrostatics
- Disulfide bonding
- Hard sphere packing
- $\alpha$-helix and $\beta$-strand packing

With Sparse Data
- NMR
- Diffraction
- CryoEM
- Sequence Covariance
- Cross-Linking
- HDX
- Mutational

- Simons et al., Proteins, 1999
- Rohl et al., Methods in Enzymology, 2004
- Kim et al., Proteins, 2013