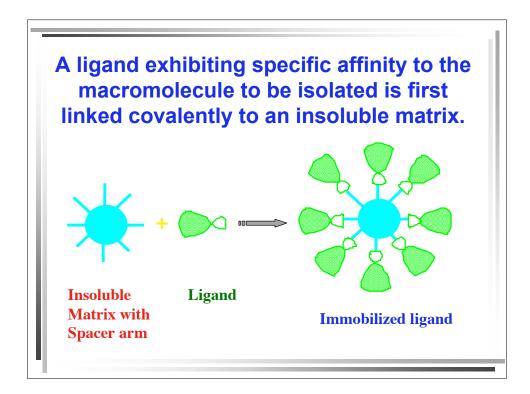
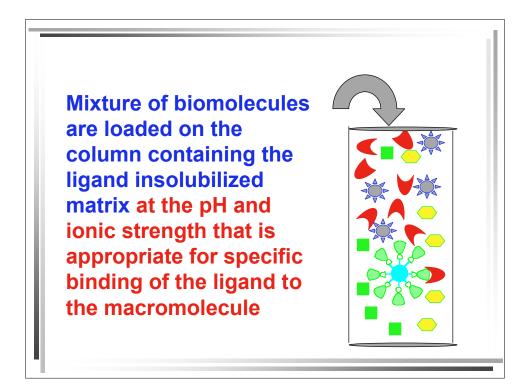
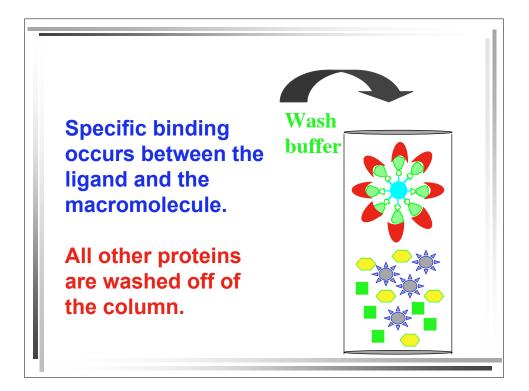


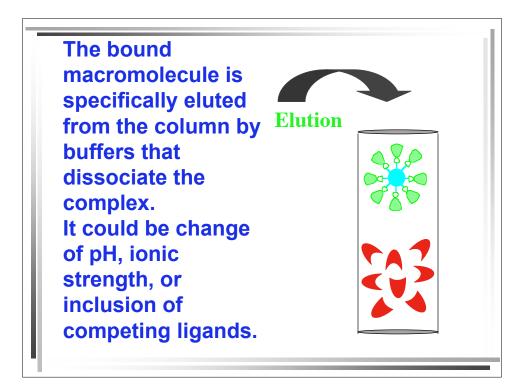
Macromolecules	Ligands that can be used
Enzymes	Substrates, inhibitors, (cofactors)
Transport proteins	Specific transportable molecules
Antibodies	Antigens
Receptors	Hormones
Glycoproteins	Lectins (carbohydrate binding proteins)
Metal binding proteins	Metal ions
Hydrophobic proteins	Hydrophobic ligands
Nucleic acids	Complementary nucleic acids; Binding proteins
Nucleic acid Binding proteins	Nucleic acids with correct structure



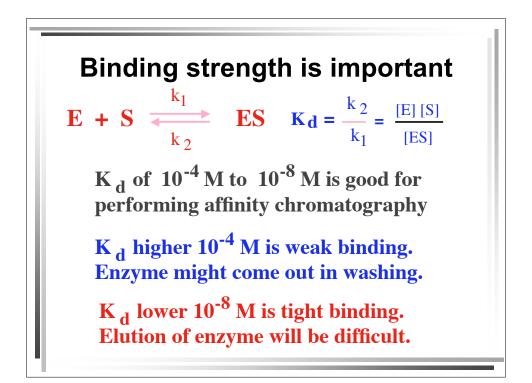






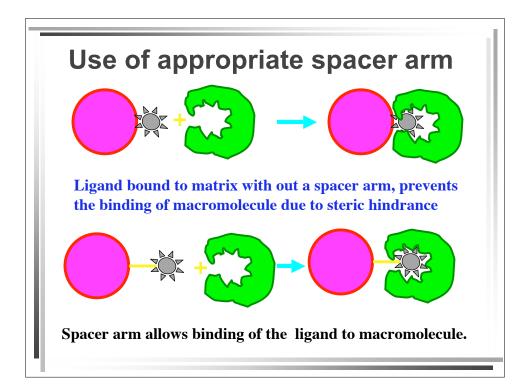


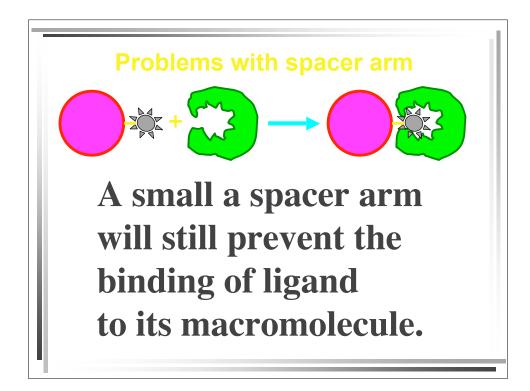


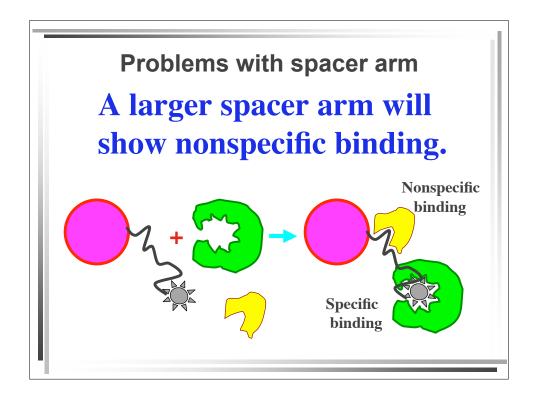


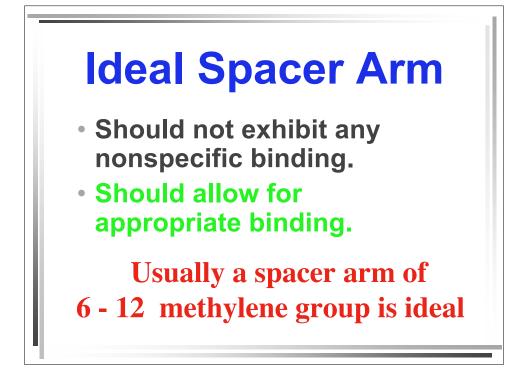
## Attention to pay: 2. Spacer arm

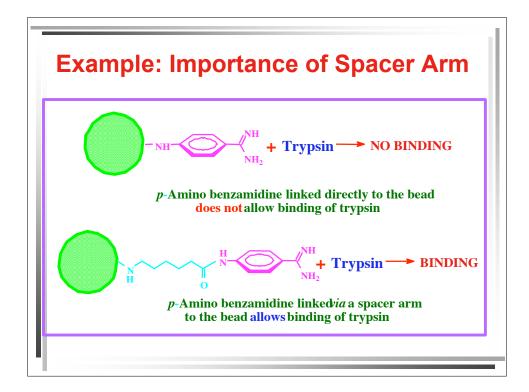
 With out a spacer arm, the bound ligand may not be positioned far enough to overcome any possible steric hindrance between the macromolecule and the matrix. This will prevent obviously the binding of the ligand to its specific macromolecule.





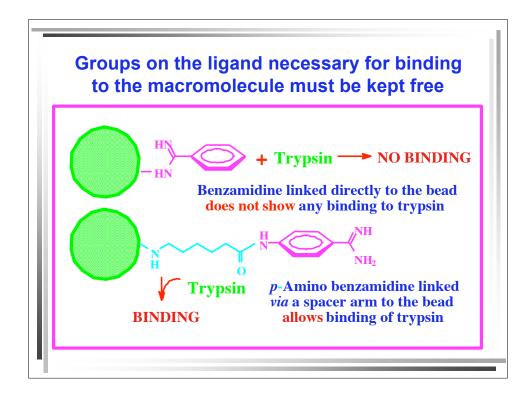






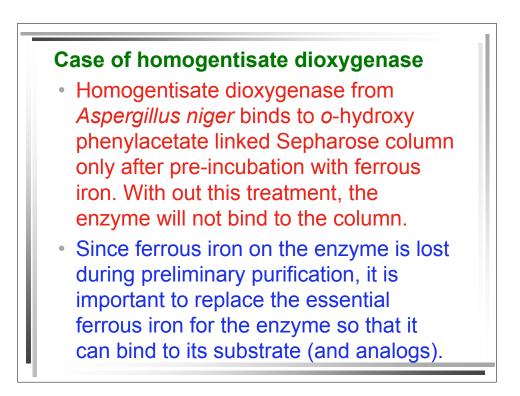
## **Attention to Pay:** 3. Binding chemistry

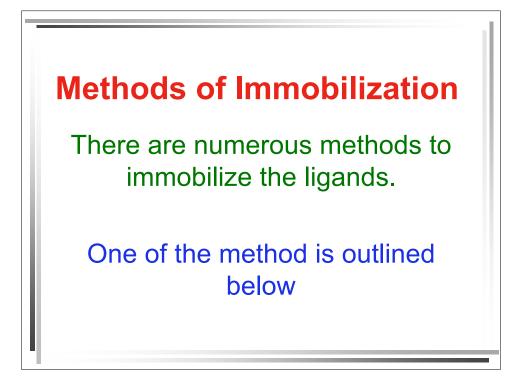
 The group(s) associated with the binding of ligand to the macromolecule should be kept free. If they were used for linkage to the matrix, they won't be able to bind the macromolecule. Such Immobilized ligands will be useless for affinity chromatography.

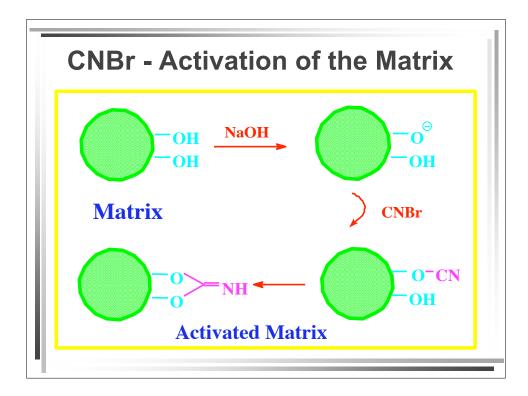


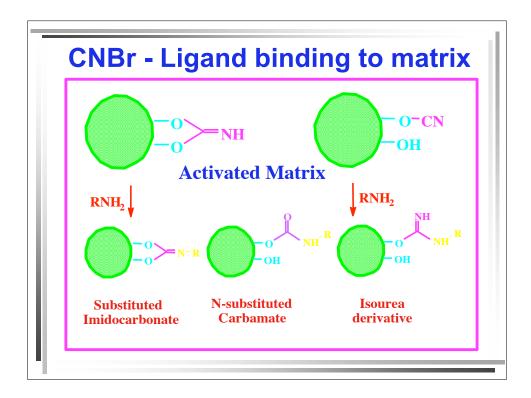
## Attention to pay: 4. Binding Components

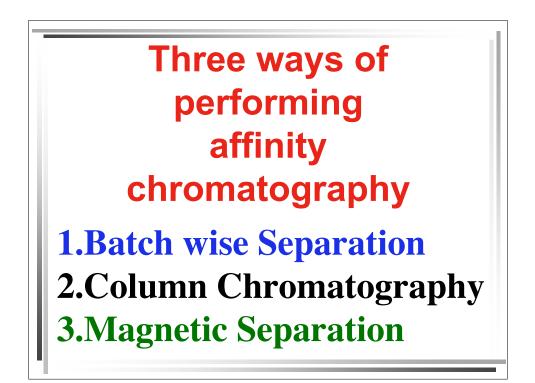
- If binding requires any components other than substrate, such as a trace metal ions, then you have to make sure that such components are provided to the enzyme to promote its binding to the affinity column.
- This requirement is essential in addition to the normal pH and ionic strength required for optimal binding of the enzyme to its substrate.

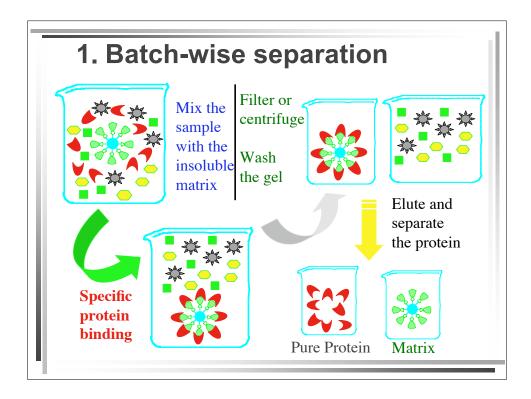


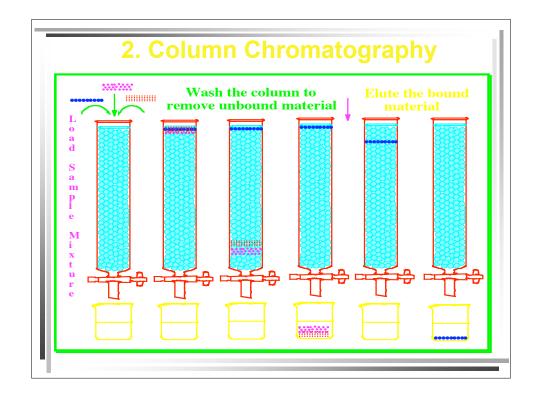


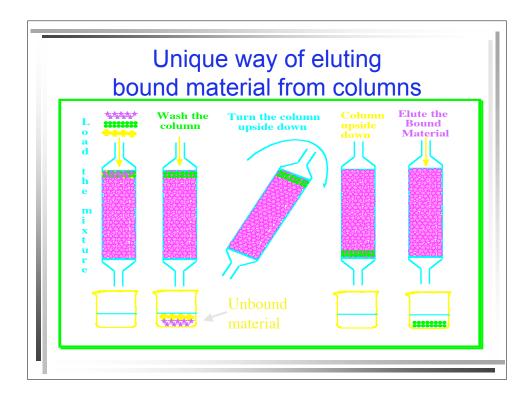


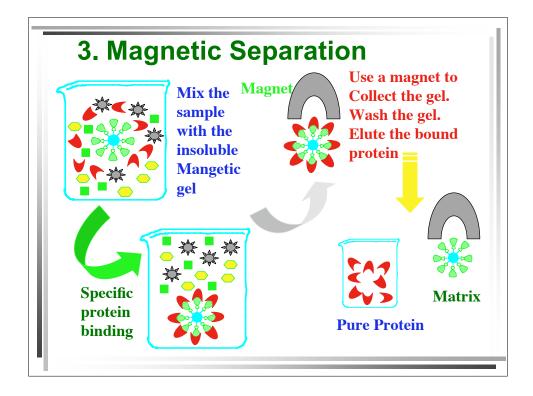












## General Affinity Chromatography

Instead of targeting a single protein, a group of proteins exhibiting specific binding for a specific ligand is targeted here.

