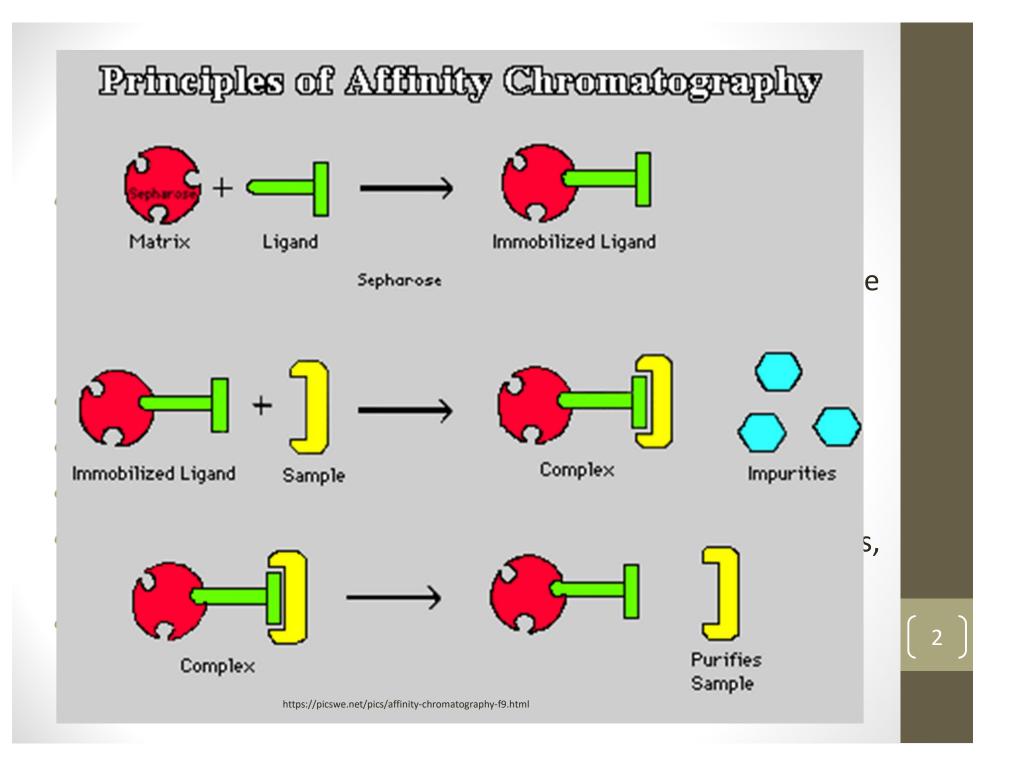
Affinity Chromatography

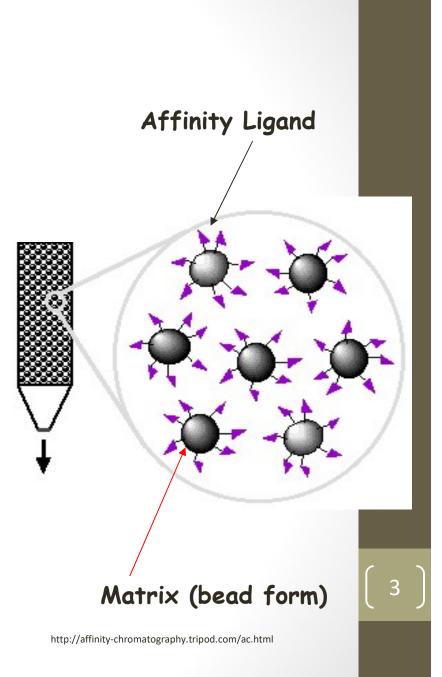
Loh Yu Min, Chatraporn Chatnithikul (Yam)

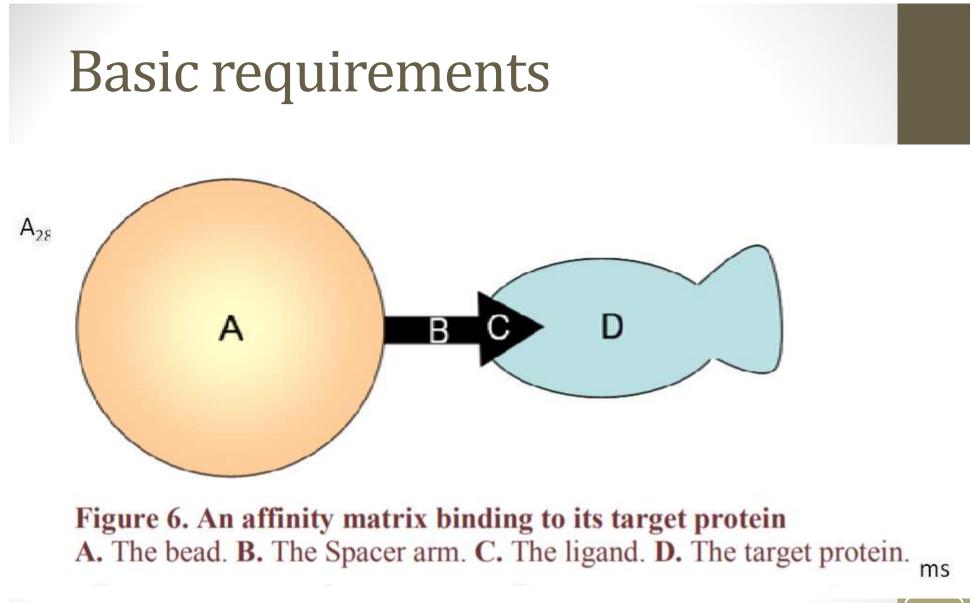


Basic requirements

• Matrix:

- ✓ Chromatographic media
- Usually in bead form to which a specific ligand is covalently bounded and presen on the surface of the bead
- Resin = Affinity ligand + Matrix
- Chemically inert and stable (insoluble in solvents, cleansing agents and buffers)
- easily coupled to a ligand or the spacer arm of the ligand
- Immobilized Ligands:
- Complementary shape with the binding site on target molecule
- ✓ Immobilized- Covalently bonded to the spacer arm attached on the matrix
 → Solid phase

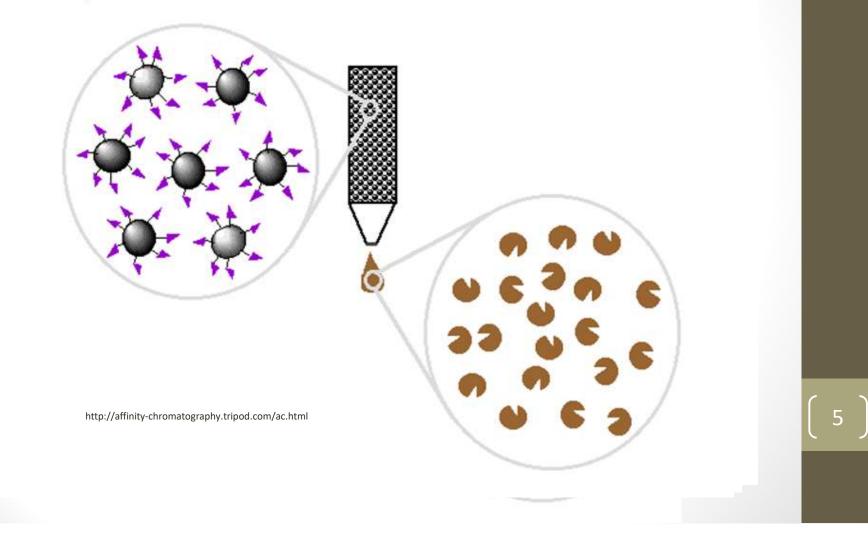






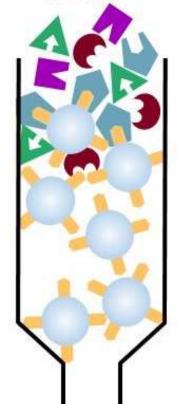
Experimental Procedures

Step 6. Elute proteins that bind tightly to ligand and collect purified protein of interest.

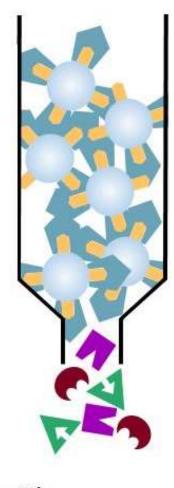


Protein Affinity Chromatography

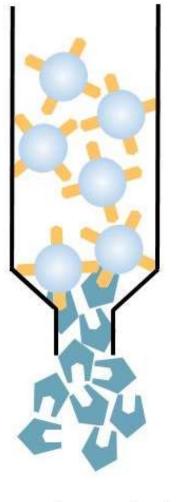
1. Bind



2. Wash



3. Elute



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Target Protein



Ligand

Affinity Resin with Ligand attached

