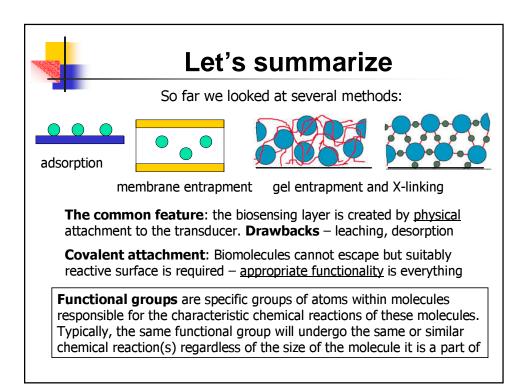
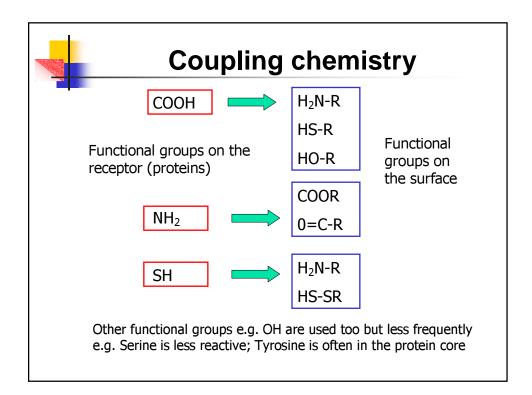


Entrapment	Advantages	Disadvantages
Membrane	<ul><li>Simple and universal</li><li>Very mild conditions</li><li>Often long shelf life</li></ul>	<ul> <li>Diffusion limitations can be significant</li> <li>Difficult to mass produce</li> </ul>
Polymer gels	<ul> <li>Much easier to mass produce</li> <li>Highly efficient solution for many particular applications</li> </ul>	<ul> <li>Higher possibility of denaturation</li> <li>Special handling may be required</li> </ul>





Covalent coupling							
Relative usefulness of commonly used AA residues							
Residue	Content	Exposure	Reactivity	Stability	Use		
Aspartate	+	++	+	+	+		
Arginine	+	++	-	±	-		
Cysteine	-	±	++	-	-		
Glutamate	+	++	+	+	+		
Histidine	±	++	+	+	±		
Lysine	++	++	++	++	++		
Serine	++	+	±	+	±		
Threonine	++	±	±	+	±		
Tyrosine	+	-	+	±	±		
C terminus	-	++	+	+	+		
N terminus	-	++	++	++	+		

