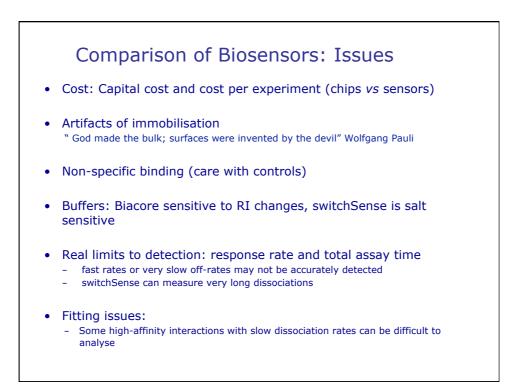
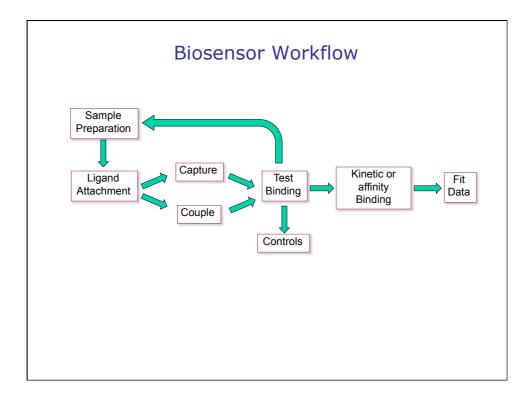
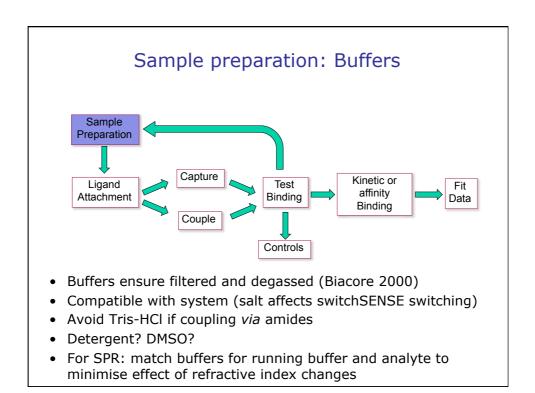
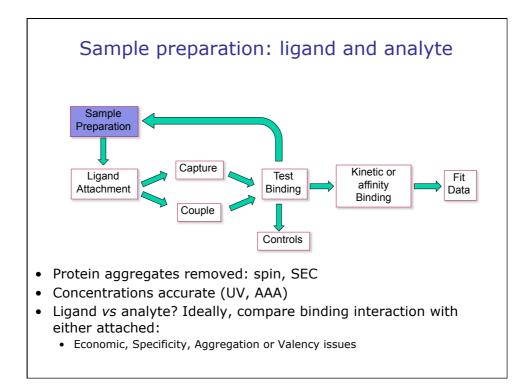


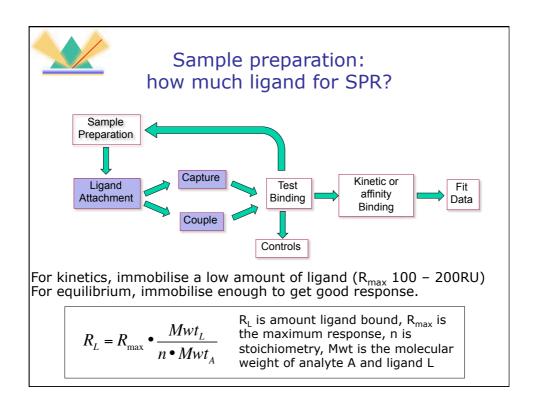
	SPR	BLI	SwitchSense
Types of experiment	Affinity/ Kinetics	Affinity/Kinetics	Affinity/Kinetics/ Sizing/DNA enzyme kinetics/ conformation
Dynamic range	No limit ?	>150 Da	?
Affinities	pM to mM	10 pM – 1mM	50 fM – 1 mM
Association rates	10 ³ -10 ⁷ M ⁻¹ s ⁻¹	10 ² -10 ⁷ M ⁻¹ s ⁻¹	10 ³ - 10 ⁸ M ⁻¹ s ⁻¹
Dissociation rates	10 ⁻⁵ –1 s ⁻¹	10 ⁻⁶ -10 ⁻¹ s ⁻¹	10 ⁻⁶ –1 s ⁻¹
Temperature control	4-45 °C	Ambient to 40 °C	8-75 °C
Throughput	96 well plate	96 or 384 plate	96 well plate
Temperature control			

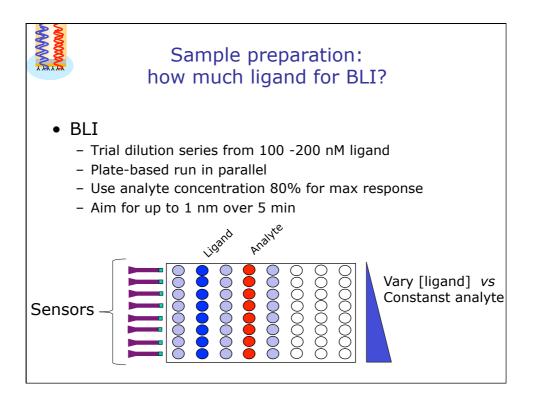


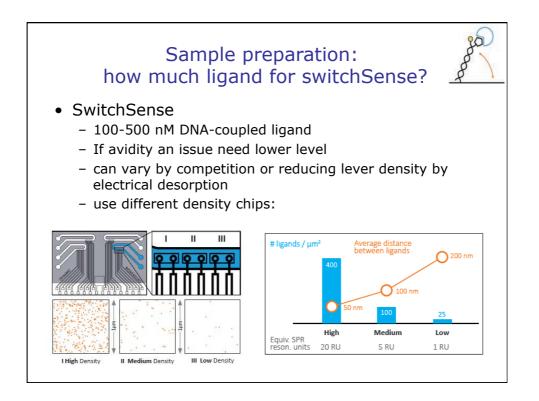


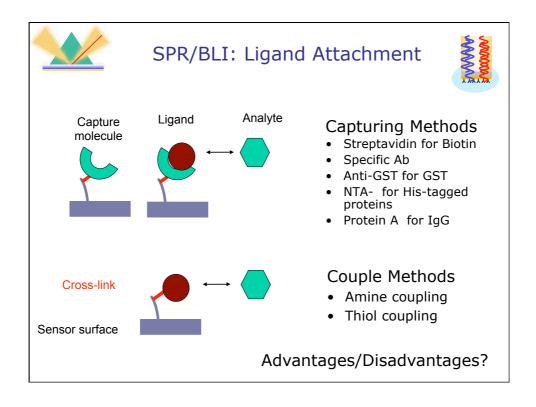












SPR Immobilisation -CHIPS with Everything

Biosensor Application

Immobilizatio	n			
• CM5	the standard chip			
• C1	multivalent or very large analytes (flat carboxymethylated surface)			
• CM3	large analytes (shortened dextran matrix)			
• CM4	high non-specific binders (low degree of carboxylation)			
• CM7	LMW analytes (denser x 3 immobilisation)			
• PEG	alternative to dextran based surfaces, flat surface good for very large or multivalent binding partners			
Affinity Tag Ca	pture			
• SA	biotinylated ligands			
• L1	lipid membrane components			
• HP	hydrophobic for lipid membranes			
• NTA	his-tagged proteins			
Antibody-Specific Capture ////////////////////////////////////				
Protein A	Fc region of antibodies			
Protein L	wide range of antibody fragments			

Octet Immobilisation Sensors with Everything **Biosensor Application** Immobilization Amine Reactive 2nd Gen (AR2G) Aminopropylsilane (APS) Covalent coupling to reactive amine groups Adsorption to hydrophobic moieties **Affinity Tag Capture Biotinylated ligands** Streptavidin (SA) • Super Streptavidin (SSA) Biotinylated ligands (high-density surface) • Anti-FLAG (FLG) FLAG-tagged recombinant proteins Anti-GST (GST) GST-tagged recombinant proteins • Anti-Penta HIS (HIS) HIS-tagged recombinant proteins Anti-Penta HIS 2nd Gen (HIS2) HIS-tagged recombinant proteins • Ni-NTA (NTA) HIS-tagged recombinant proteins **Antibody-Specific Capture** Anti-Human IgG Fc Capture (AHC) Human IgG Fc region, kinetic analysis Anti-Human IgG Fc Capture (AHQ) Anti-Mouse Fc Capture (AMC) Human IgG Fc region, quantitation Mouse IgG1, 2a & 2b Fc regions, kinetic analysis Anti-Mouse Fc Capture (AMQ) Mouse IgG1, 2a & 2b Fc regions, quantitation Anti-Human Fab-CHI (FAB) Fab-CH1 domains of human IgG Protein A (ProA) Quantitation of various species IgG • Protein G (ProG) Quantitation of various species IgG

Quantitation of IgG via kappa light chain

Protein L (ProL)

