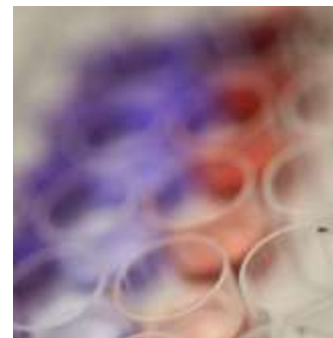


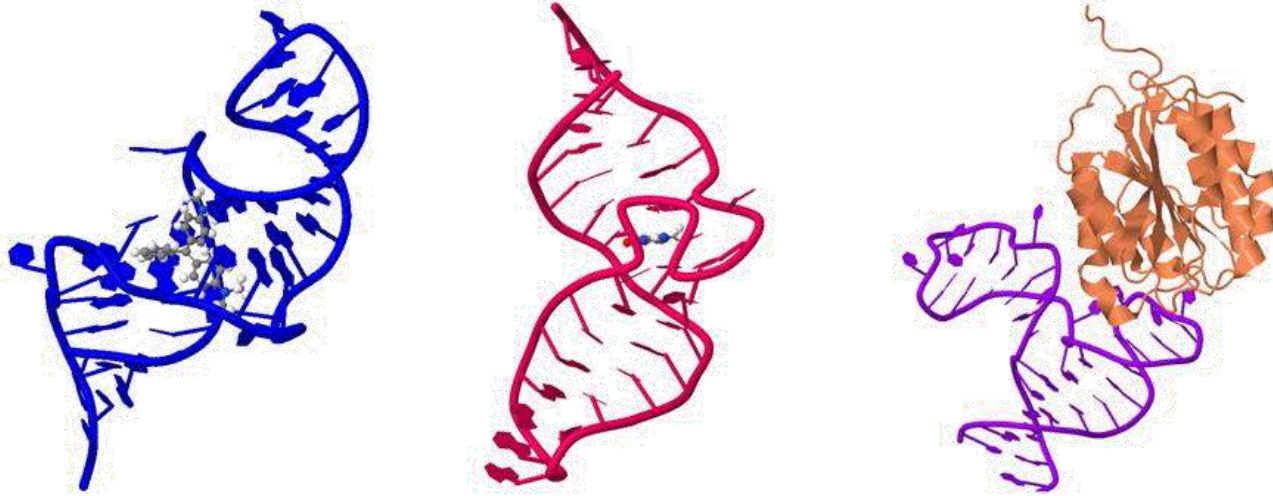
Novel Chemistry and Applications with Nucleic Acid Aptamers

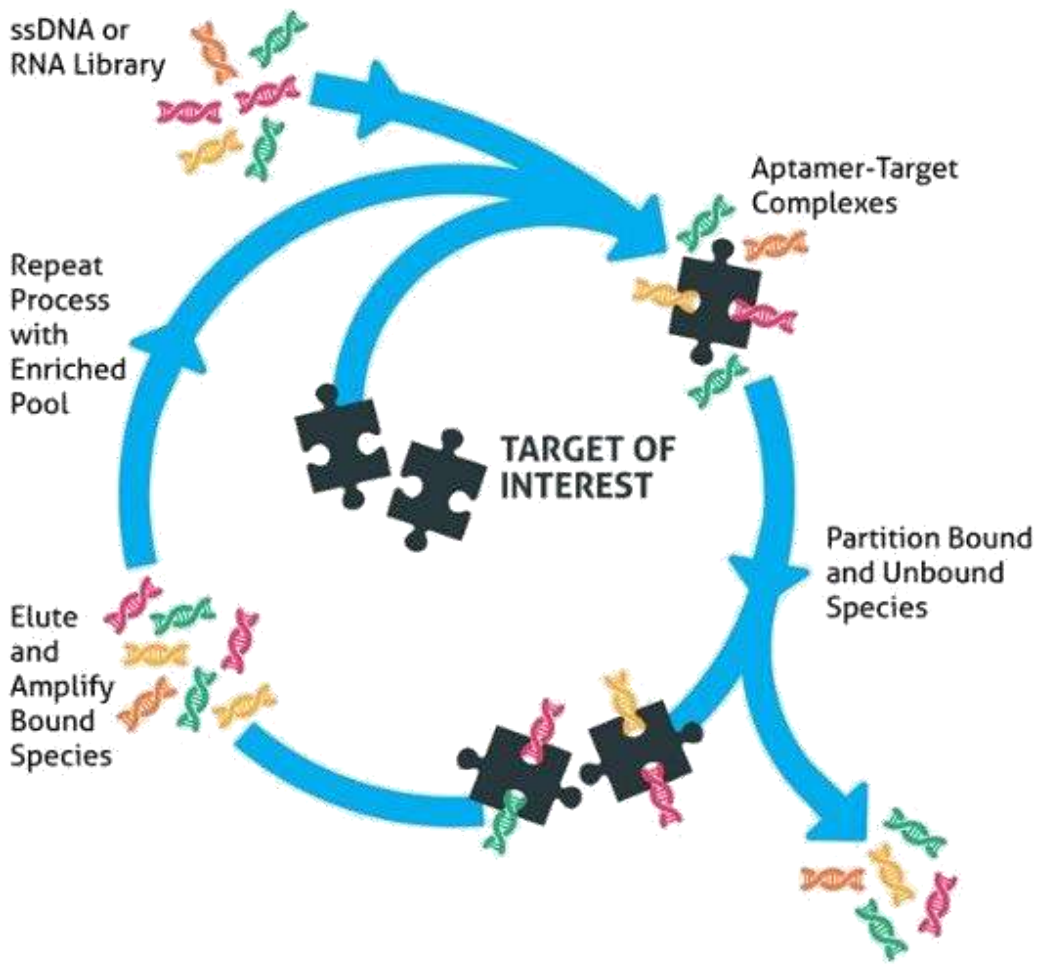


What is an Aptamer?

Aptamer = Nucleic acid sequence selected for its ability to bind specifically to a target ligand

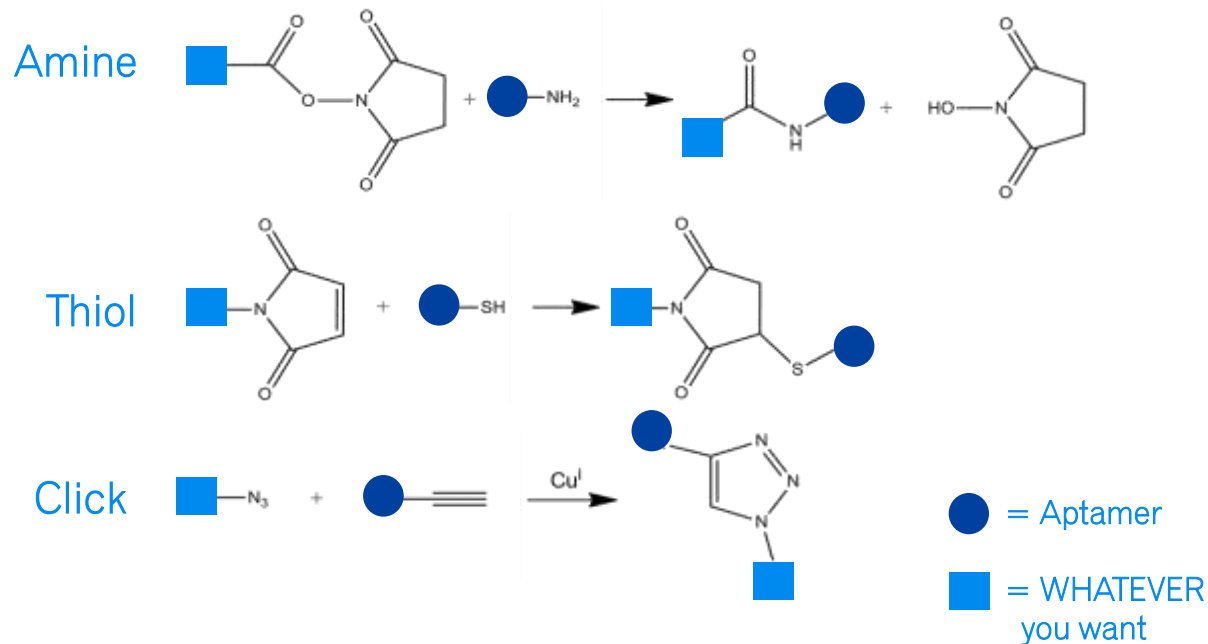
- Sometimes referred to as 'nucleic acid antibodies'



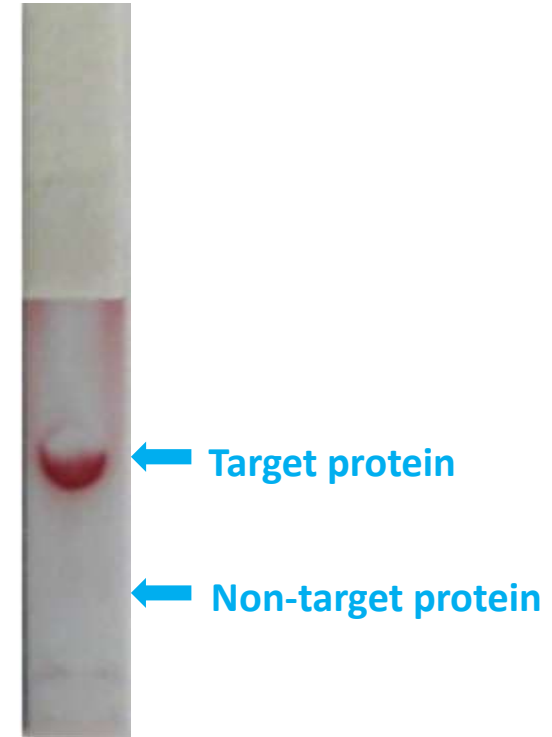
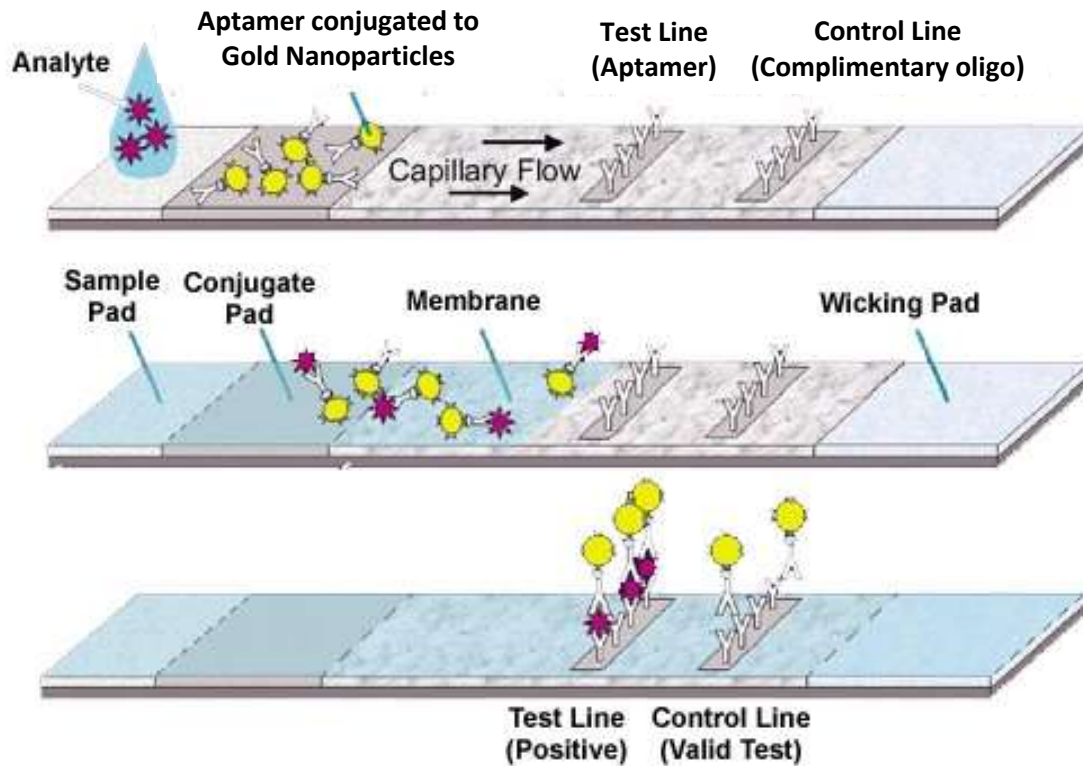


Labelling Aptamers

- Aptamers can be produced by chemical synthesis incorporating simple chemical groups
- These can be used to attach a variety of functional moieties to suit the end application

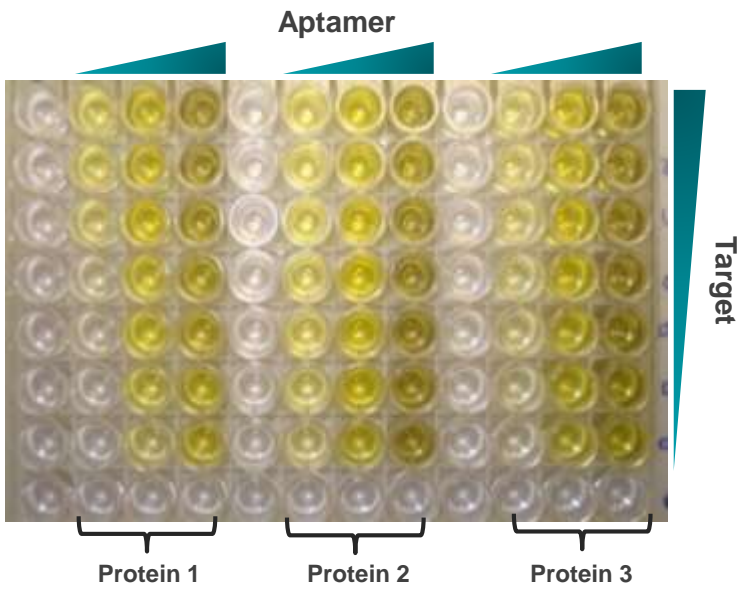
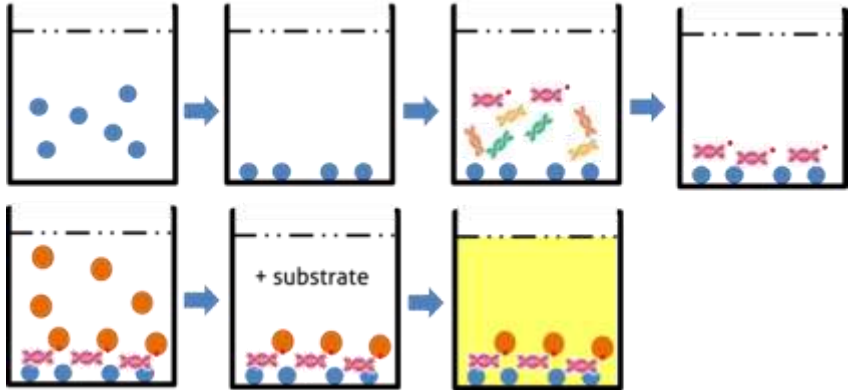


Aptamer Lateral Flow Devices (LFDs)

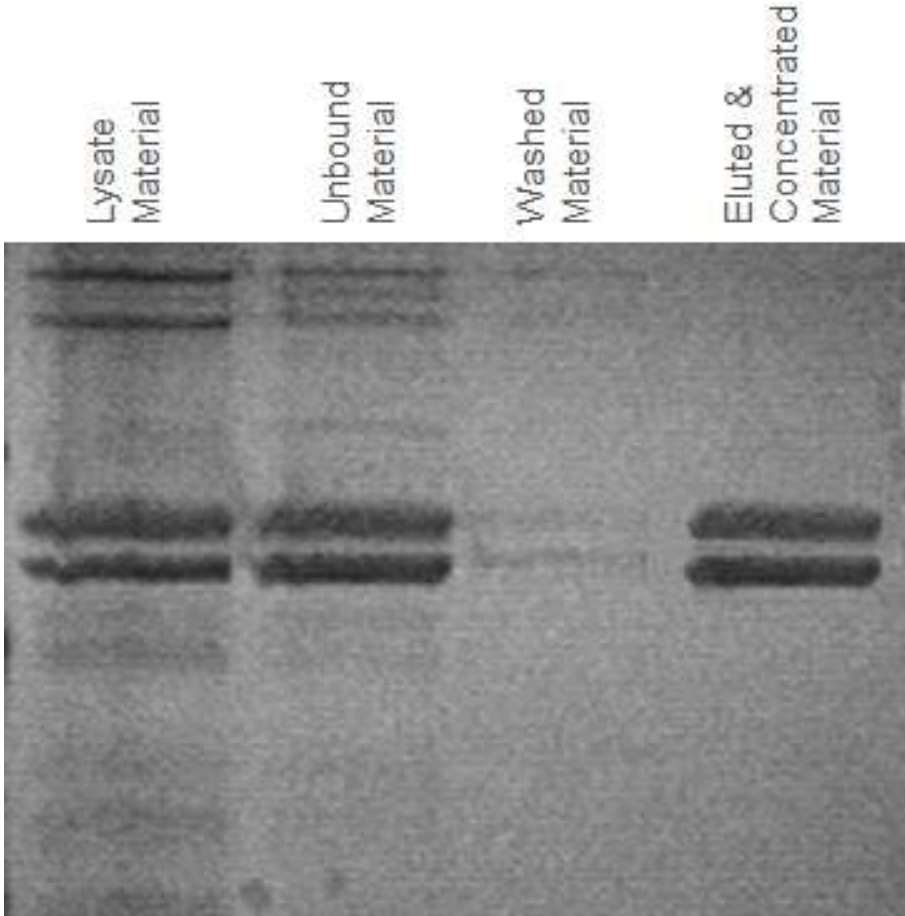


ELONA

Enzyme Linked OligoNucleotide Assay

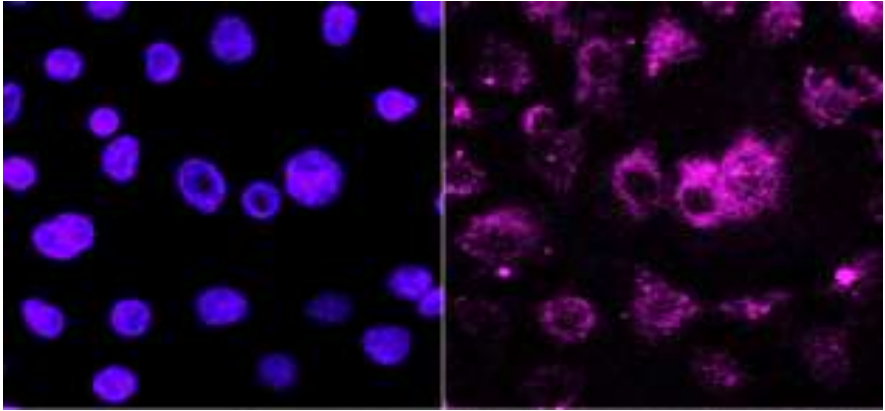
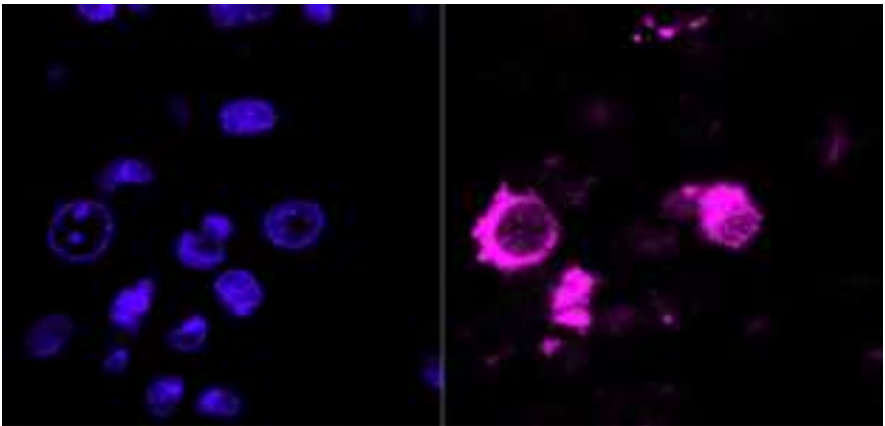


Protein Purification using Aptamers



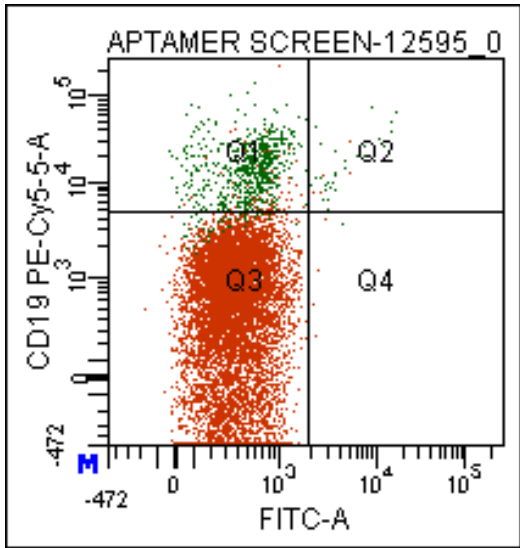
DAPI

Cy5-Labelled
Aptamer

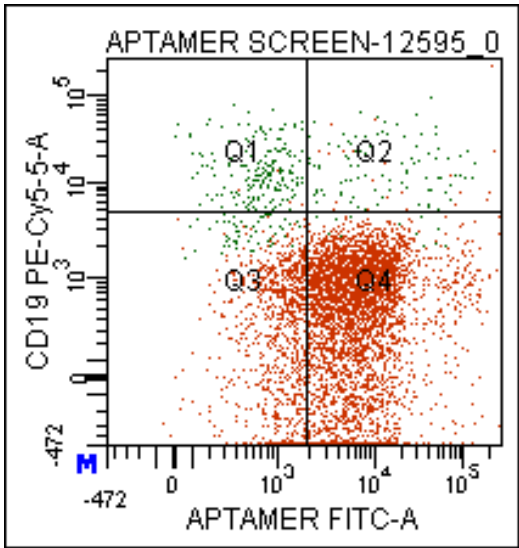


GREEN = Healthy plasma cells

RED = Neoplastic plasma cells



Naive pool



Aptamer pool



start with the end in mind



next generation diagnostics

Thank you for your attention

Any questions?



enabling drug discovery



follow the facts, find the truth



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