

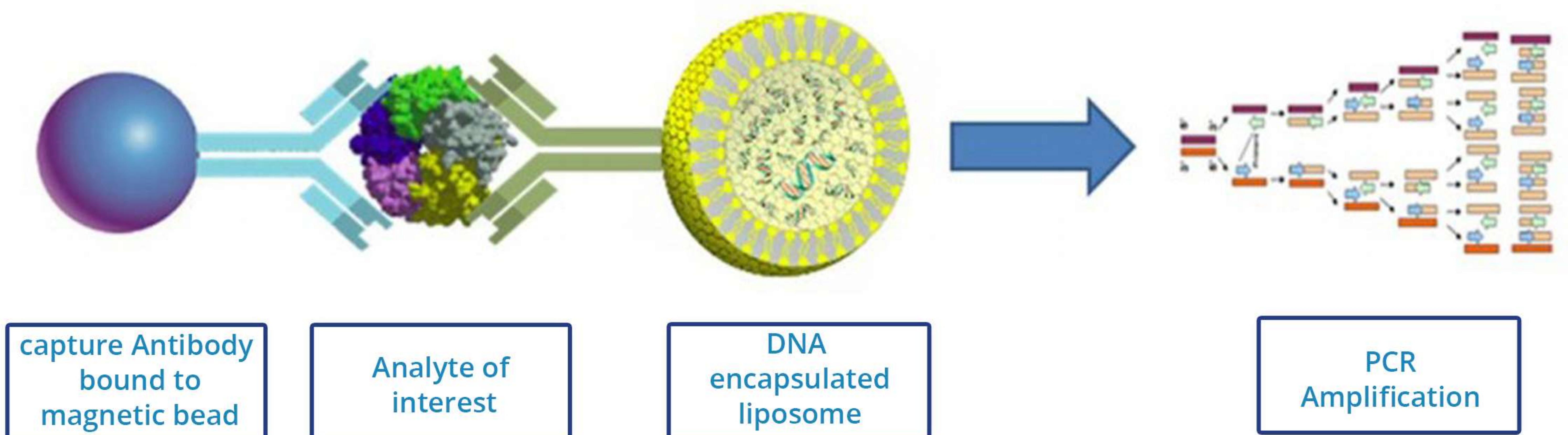


Amplatto

Unleashing the power of Amplatto™ technology to achieve attomolar level of analyte detection

Accurate detection of specific protein biomarkers is crucial for the diagnosis of disease, monitoring drug therapy and patient screening. Immunoassays have been the method of choice for protein analyte measurements for more than four decades.

However the current immunoassay technologies lack sufficient sensitivity to measure proteins at sub-picomolar level. There is an increasing demand for immunoassays that can detect sub-fM (femtomolar) to aM (attomolar) level of proteins to support early detection of diseases.



Amplatto™ immunoassay platform offers significant advantages:

- ▶ **Attomolar Detection:** The technology combines the advantages of flexible and robust immunoassays with the exponential signal amplification power of PCR to achieve unparalleled sensitivity at attomolar level.
- ▶ **Low background and improved precision:** Encapsulation of the reporter inside the liposomes allows nonspecific DNA in the assay medium to be degraded with DNase I prior to quantification of the encapsulated reporter by PCR.
- ▶ **Improved quantitative accuracy:** The ability to encapsulate multiple reporters per liposome also helps overcome the effect of polymerase inhibitors present in biological specimens.

We are currently seeking collaborators to validate this technology for various applications. If interested, please contact Info@ingenuitybiosciences.com