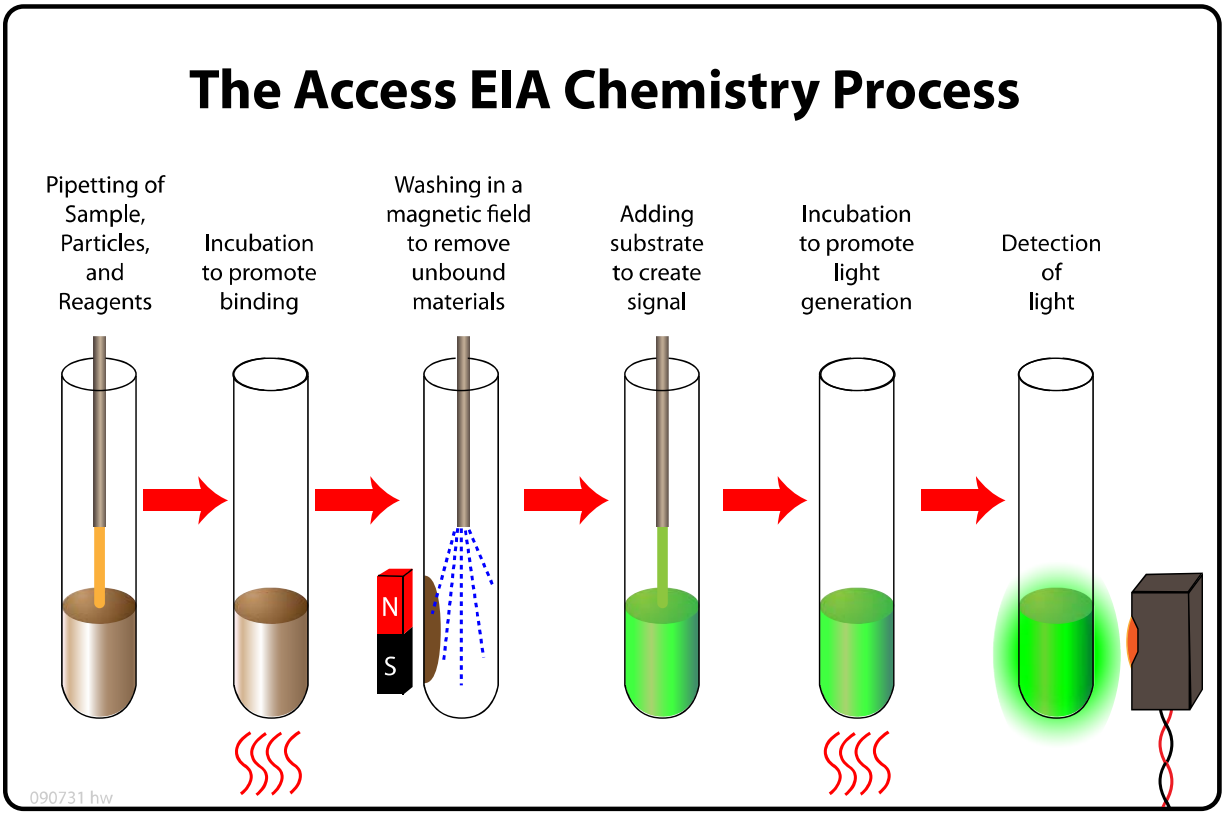
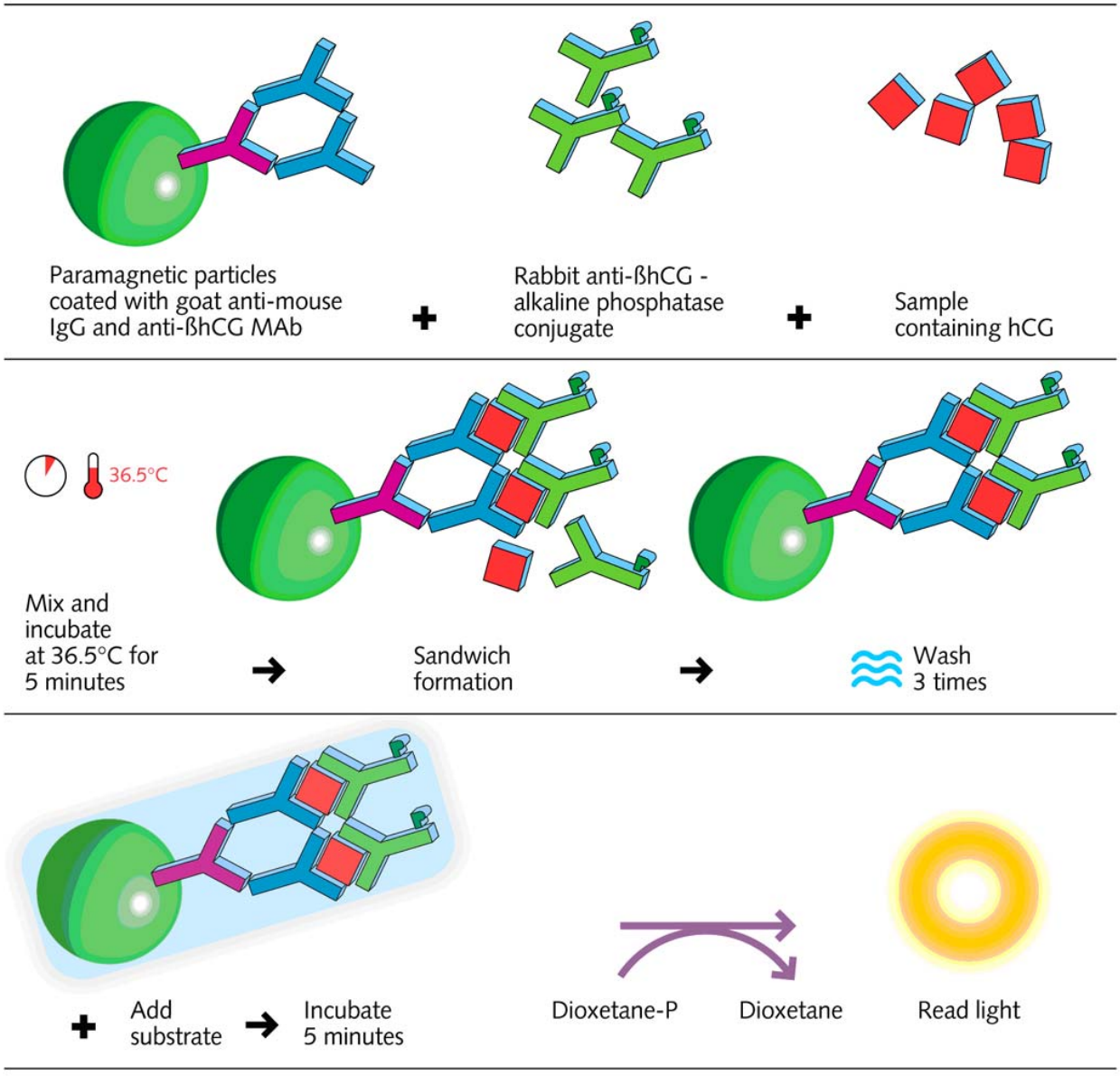
Immunoassay Theory



DxI methodology and reaction process:

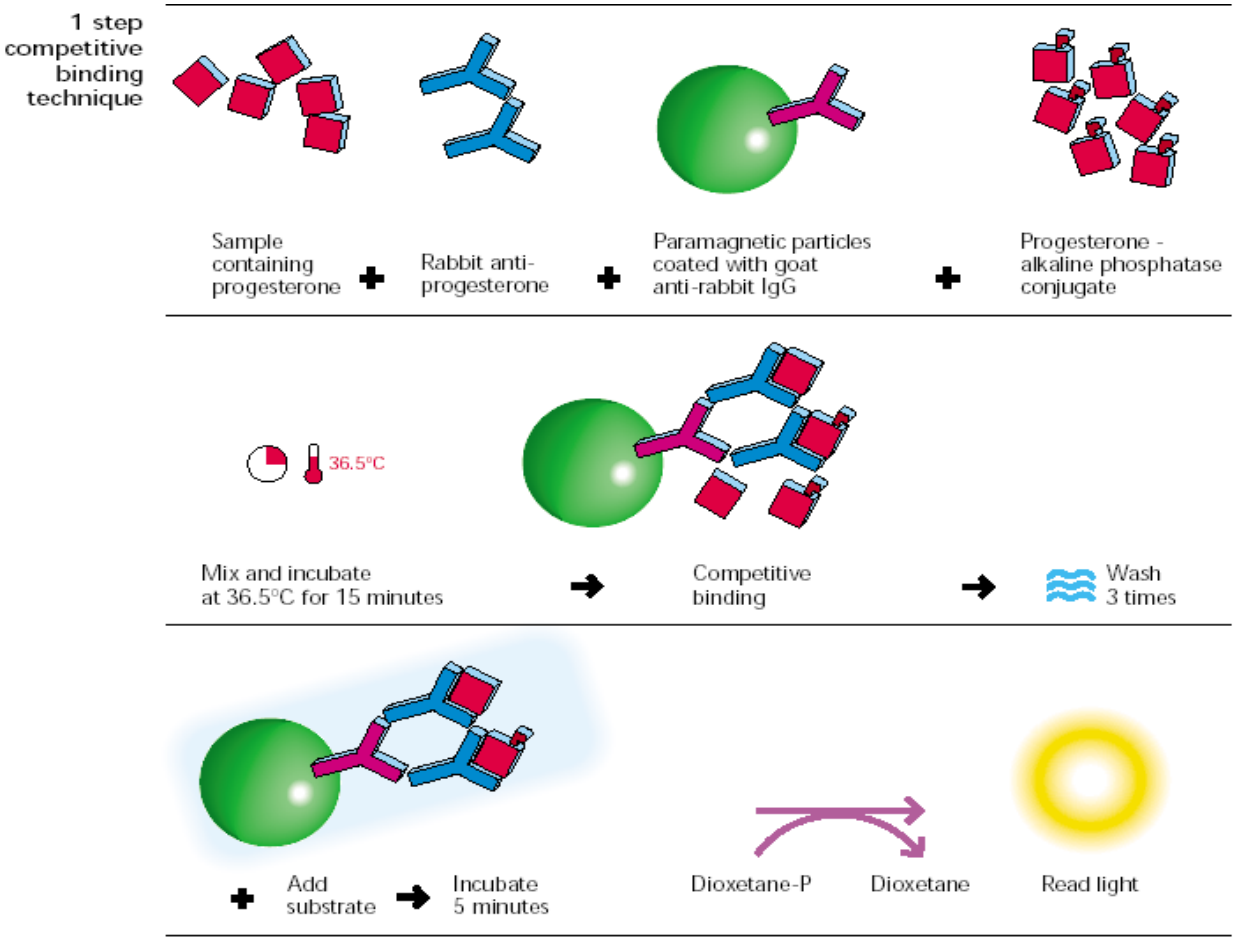
- The DxI utilizes chemiluminescent technology.
- Chemiluminescense is defined as a chemical reaction in which one of the final end products is light. The light generated from a reaction is measured in Relative Light Units (RLUs).
- Sample and reagent components are aspirated and dispensed by a reagent pipettor into a reaction vessel (RV). The reagent pipettor mixes the contents in the RV.
- The RV is incubated for the required time for the assay.
- Following incubation, the RV is transferred to the wash wheel where it is washed in a magnetic field to remove unbound material.
- Substrate is dispensed into the RV. The RV is incubated.
- The light generated by the reaction is read by the luminometer. The reading is converted to analyte concentration.

Assay Technique: Sandwich



Signal produced is directly proportional to the hCG concentration in the sample.

Assay Technique: Competitive Binding



Signal produced is inversely proportional to the progesterone concentration in the sample.