

Ultrasensitive Detection

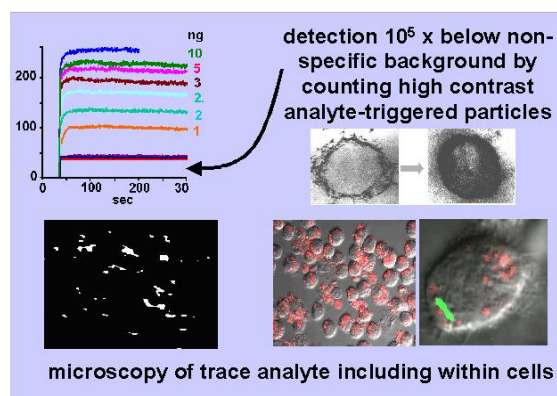
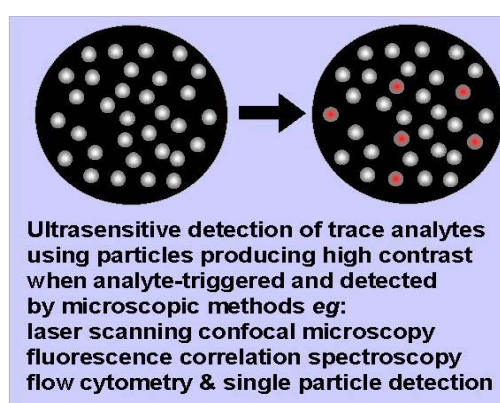
one pot diagnostics * pathogen detection
in vivo diagnostics * drug delivery peptides * liposomes

ABL specializes in “one pot” diagnostics, particularly suited to low skill strip tests and simple automated assays for complex samples. These include a test for hormones, drugs of abuse, clinical markers, explosives, pesticides and antibiotics. Reagent integration into small nanometer-sized particles (liposome & peptide assemblies) provides drug delivery and ultrasensitive detection solutions.

Ultrasensitive detection of analytes is achieved by microscopically-resolving and counting analyte-triggered particles (below).

ABL's unique technical position is provided by peptides engineered to trigger signal development in small nanometer-sized particle assemblies. The peptides are made specific to particular analytes by simple chemical modifications of the peptides.

Analyte-sensitized peptides are armed with a second sensitivity allowing them to be switched on or off, to provide preformed particles for simple automation, pre-incubation control, minimization of non-specific background or integration into microelectronic devices. By changing the payload in the particle assembly, the peptide can trigger development of many different optically- and electrically-detected signals. The small size and high stability of the sensing assembly allows penetration into complex samples to target trace analytes *in situ* and detect localized traces of analyte including *in vivo* (eg in tissue, cells).



ABL – One Pot Ultrasensitive Detection Technologies For Any Analyte.

Reagent supply, detection solutions and *licenses available.

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