

Base Pair Biotechnologies, Inc. is a world-leading provider of highly customized aptamer discovery and development services. The company was founded in 2012. It is privately held and located in the Houston, Texas metropolitan area, close to major medical centers and universities.

## Experience

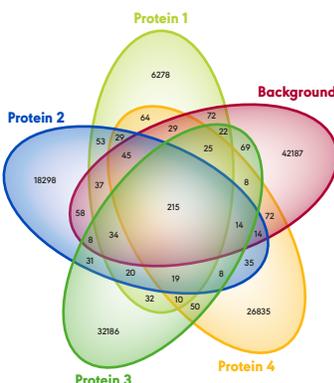
For more than a decade, Base Pair scientists have advanced aptamer development and selection through technical innovation and creative design.

Base Pair scientists have led more than a dozen grant funded aptamer development projects and over one hundred and fifty customer funded projects. Base Pair has successfully developed aptamers used in a wide range of applications, including ELASA, fluorescence microscopy, fluorogenic solution-based assays, small molecule in vivo imaging, in vivo and in vitro biosensors, and lateral flow. Base Pair aptamers have been used for affinity resins and in scaffolds for three dimensional tissue culture/regeneration.

**“Base Pair is dedicated to problem-solving and innovation in the nucleic acid aptamer space.” - Bill Jackson, Founder and Chief Scientist**

## Technology

Base Pair’s intellectual property portfolio includes more than two dozen issued and pending patents as well as trade secrets related to aptamer selection, aptamer screening, and aptamer sequences. Base Pair’s patented multiplex selection process reduces time and cost for aptamer discovery. Our VENNmultiplex™ SELEX facilitates development of specific- and pan-binders to related targets. Base Pair also has proprietary aptamer libraries that contain novel modifications, modulating binding properties and increasing conformational diversity.



VENN digram indicating specific- and pan-binders

Base Pair has several proprietary techniques for developing aptamers to small molecules and uses novel methods for determining solution phase affinity. Base Pair has also developed a proprietary method for identifying aptamer sandwich pairs for ELASA and lateral flow methods.

## Collaboration

We understand that aptamer discovery and development is a collaborative process. Every project begins with an in-depth technical discussion to fully understand customer needs. Our aptamer development scientists carefully consider the characteristics of the target(s), sample types, selectivity requirements, and downstream applications when designing, selecting, optimizing, and testing aptamers.

Base Pair’s proprietary AptaTracker™ tool enables clients to closely monitor each stage of the aptamer development process. Base Pair scientists work closely with customers to develop aptamers with the highest likelihood of meeting performance requirements.

## Accessibility

Base Pair scientists work with researchers in a broad range of areas on projects varying widely in scope and complexity. From basic research projects involving single aptamers to diagnostic or therapeutic applications involving multiple aptamers to a family of proteins, Base Pair is committed to providing novel aptamer solutions. Base Pair offers a flexible business model ranging from the purchase of previously-developed aptamers (in small or large quantities), to custom aptamer and/or assay development, to exclusive licensing of specific aptamer sequences.

**“Through experience, technology, and collaboration, Base Pair Biotechnologies develops effective aptamers, Aptamers That Work™, to address critical needs within the scientific community.” - Vicki Singer, CEO**