

# NEXTGEN Aptamers

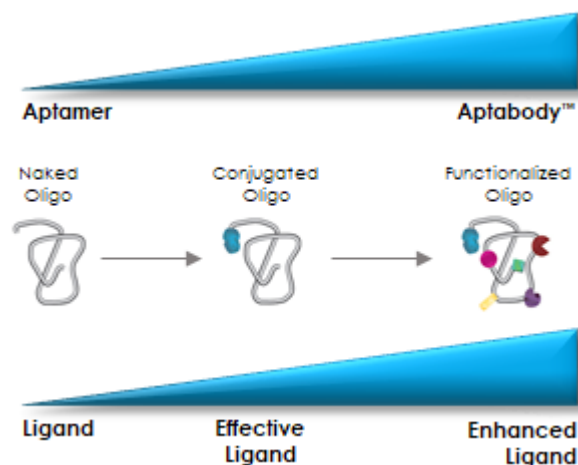
## Aptabodies™

### WHAT IS AN APTABODY™?

An aptabody™ is a supramolecular form of an aptamer ligand containing a wide variety of functional groups. The aptamer component acts as a scaffold to hold into place one or more functional groups such as amino acids, fatty acids, carbohydrates, small molecules and/or metals in a unique orientation in 3-D space.

The order and proximity of these functional groups play a role in enhanced functionalities ranging from higher affinity and specificity over “naked” aptamers, to enzyme biomimetics improved molecular targeting in vivo, cellular trafficking, pharmacokinetics/dynamics, and drug-like properties.

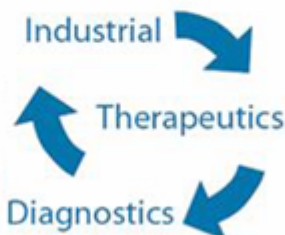
NOTE: Conventional antibodies have a chemical alphabet of the naturally occurring amino acids. Aptabodies™, by definition, have a chemical alphabet of all amino acids, fatty acids, as well as synthetic compounds, co-factors, metal ions, etc...



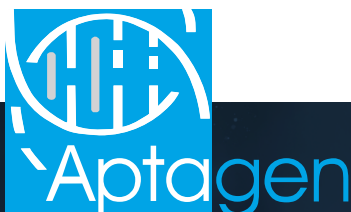
### Advancing Aptabody™ Applications

	Antibody	Aptabody™
Amino acids	✓	✓
Fatty acids		✓
Carbohydrates		✓
Organics & Metals		✓

It's not an antibody. It's not an aptamer.  
It's an "aptabody".



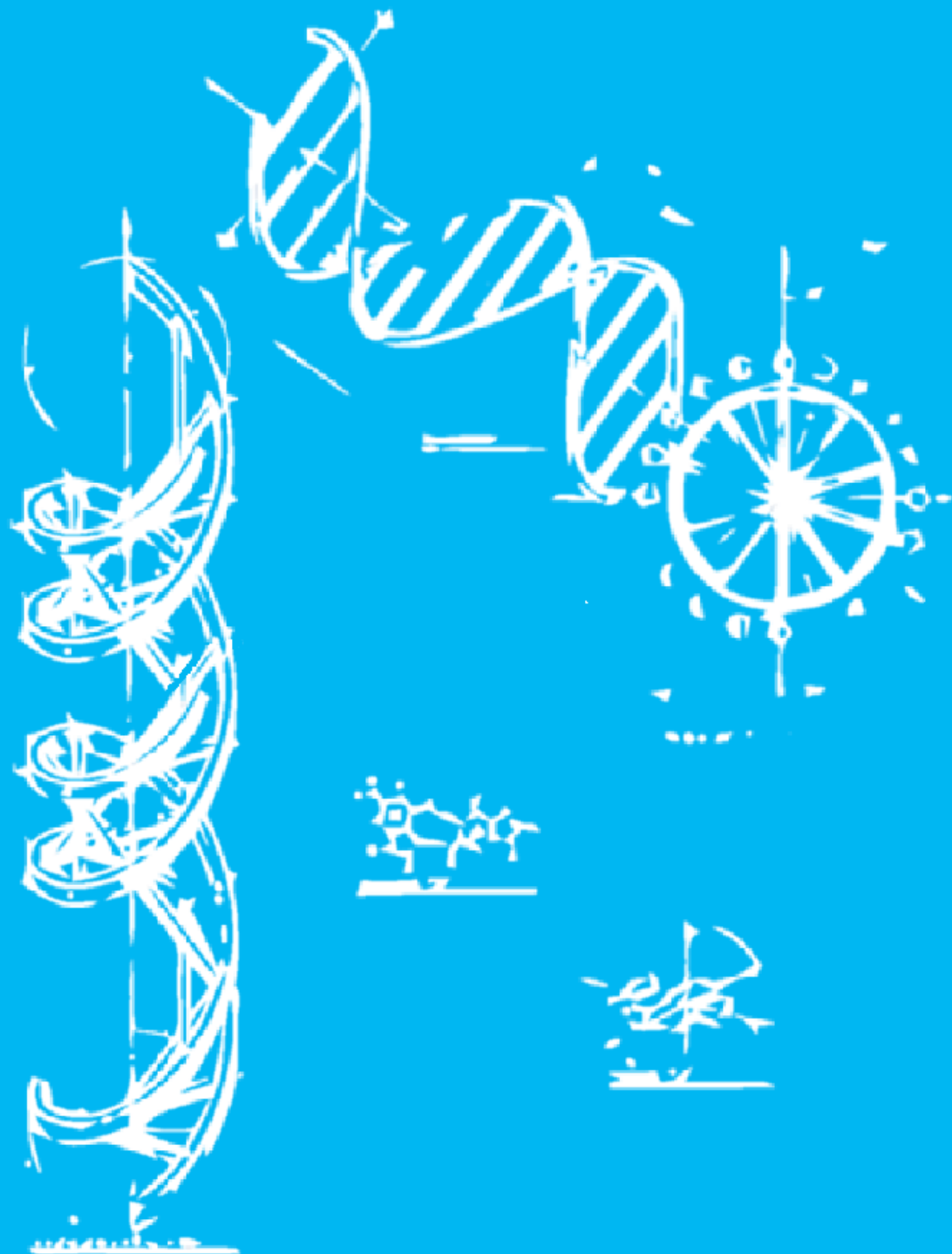
Platform		Products & Tools
Animal		drug targeting and Imaging
Tissue		biomarkers
In Vitro		ligands & artificial enzymes
Material		nanobiotechnology



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“Forget Antibodies. Use Aptamers!”™

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