## SELEX 'selective evolution of ligands by exponential enrichment'

The process of SELEX involves a positive selection step: the nucleic acid library is incubated with a target (positive selection), which can be preceded by a counter selection phase to remove nonspecific nucleic acid molecules. During the partitioning step, bound and unbound fractions are separated. The bound fraction is amplified to obtain an enriched pool for next round of selection. This process is repeated for n rounds until the pool is enriched for sequences that specifically bind the target. These nucleic acid molecules are cloned sequenced. Individual sequences are aptamers.

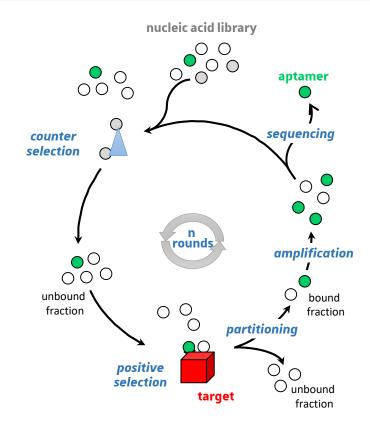


Figure adapted from Mercier M-C, Dontenwill M, Choulier, L. (2017). Selection of nucleic acid aptamers targeting tumor cell-surface protein biomarkers. Cancers. 21(9), pii: E69.