

New high throughput screening and evolution method



- Fragment-based drug discovery approach using PNA-tagged ligands
- Technology accelerating identification of leads or validation of novel therapeutic target
- Fast evolution process to select high affinity ligands
- Cost effective

KEYWORDS

Screening method
Drug discovery
Target validation

PATENTS

EP2446033

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US8716191

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INVENTORS

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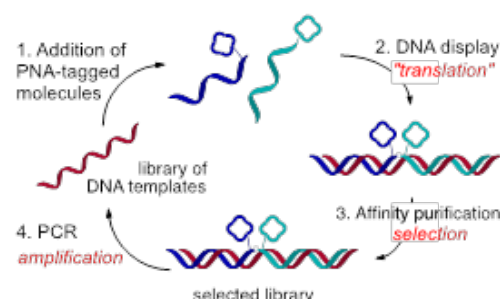
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TECHNOLOGY

Iterative screening strategy based on PNA-encoded libraries

- 1- Combinatorial assembly of PNA-tagged molecule libraries by hybridisation to a complementary DNA-template library
- 2- Selection of the DNA-templated combinatorial library against an immobilised target
- 3- Amplification of the selected library
- 4- Reiteration of the cycle of selection/ amplification



APPLICATIONS

- Fragment-based drug discovery
- Hit generation and hit to lead optimisation
- Generation of tools for the validation of new therapeutic targets

INNOVATION ADVANTAGES

- Fragment-based HTS
- Libraries of unprecedented size and broader diversity
- Fast screening (2 cycles of selection/amplification per day)
- Miniaturised technology requiring low amounts of target protein and libraries
- Can detect weak affinity fragments
- PNA libraries allow for more permissive chemistry, high affinity and stability
- Low investment needed to be set-up

DEVELOPMENT STATUS

- Lab available for custom libraries manufacturing service

Partnership: available for licensing



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