

Reversible Native Chemical Ligation: From Dynamic Peptides to Peptides Drug Discovery platform



- **Novel dynamic combinatorial** peptidic systems occurring:
In mild conditions & neutral pH
By using N-Methylated-Cysteine moities as reversible bond effector
- **Patented Drug Discovery tool**, highlighted in Nature ScBX

KEYWORDS

*Peptides
proteine
Drug discovery
Combinatorial
Reversible
chemical ligation*

PATENTS

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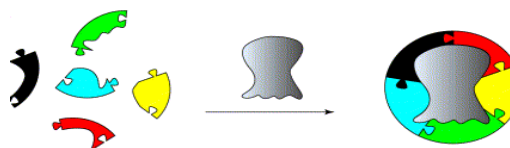


TECHNOLOGY

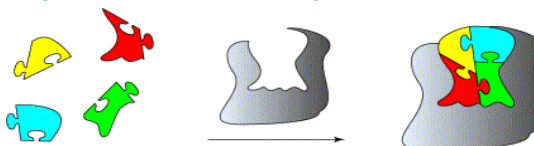
- Use of reversible oriented native chemical ligations at the non-natural amino acid N-Methyl-Cysteine (Nme-Cys)
- A combinatorial dynamic chemical library, in the presence of a substrate, lead to a disruption of the equilibrium, generating the most stable/affine entity

APPLICATION

- Straightforward single experiment Drug Discovery/Optimization tool for:
 - Proteins/Receptors, Adaptative Antibodies discovery



- Biological targets peptide-based ligands



INNOVATION ADVANTAGES

- Screening of millions of potential peptides combinations in one experiment, mild conditions, neutral pH, with biologically relevant Nme-Cys amino-acid
- Unprecedented & Fast dynamic covalent peptides screening
- Combination of rational & phenotypic approaches

DEVELOPMENT STATUS

- Generation of a dynamic peptides library
- POC on complex dynamic systems ongoing

Partnership : seeking for partner to enter co-conception program

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