

美迪西多肽药物研发服务平台

选择美迪西的理由：

- 75+ 肽类药物专家
- mRNA展示技术
DNA
- 经验丰富
- 创新环化技术
S-S Click DBX
- AI肽类药物设计 + 筛选

- mRNA
-
- AI

核心服务



展示技术

mRNA
/

mRNA-

mRNA

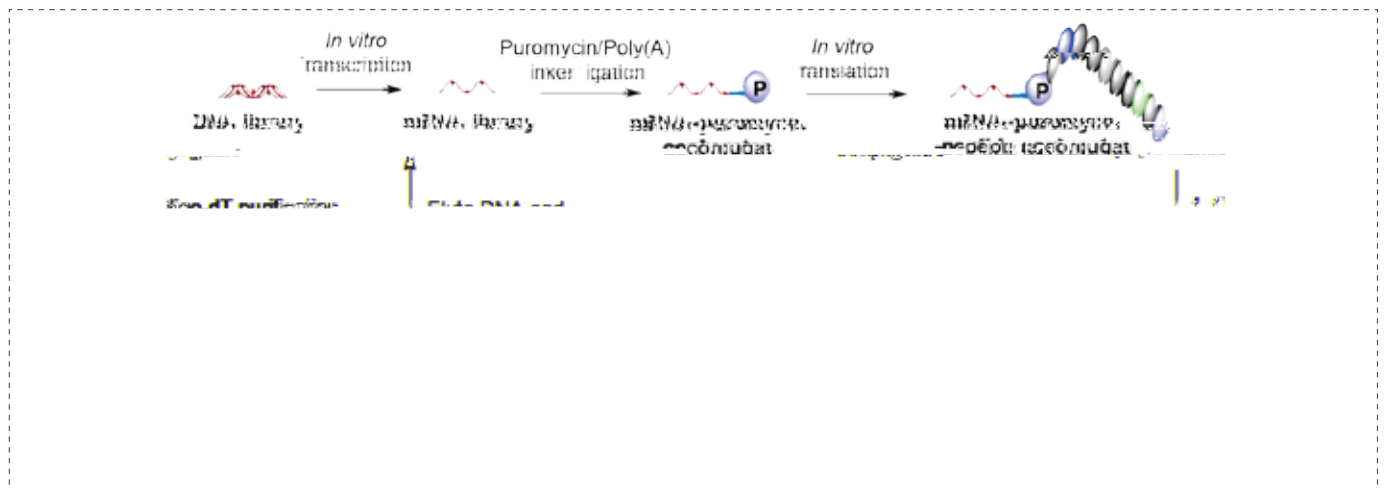
(mRNA)

(/)

美迪西应用此技术构建规模超过 10^{13} 的mRNA展示库, 期间可以通过无细胞PURE体外翻译系统将非天然氨基酸整合到多肽

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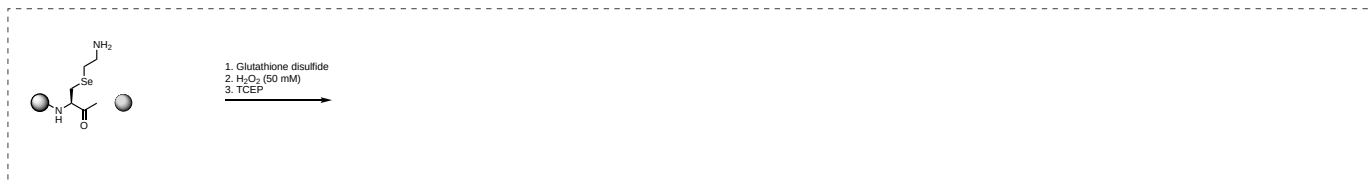


展示肽库的环化修饰 ()



mCNP

/



■ DBX / - (DBX)



基于计算的虚拟筛选 (*In Silico*)

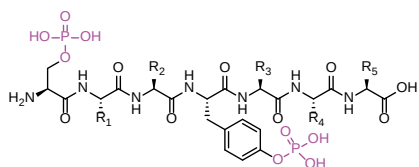
■ 基于结构的对接

Rosetta AutoDock CrankPep (ADCP) HADDOCK -

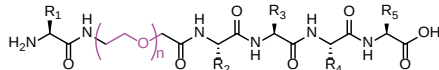
■ AlphaFold 集成

AF-Multimer - MD

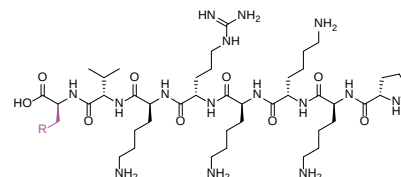
固相和液相合成



Phospho-peptide



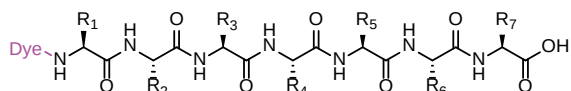
PEGylated peptide



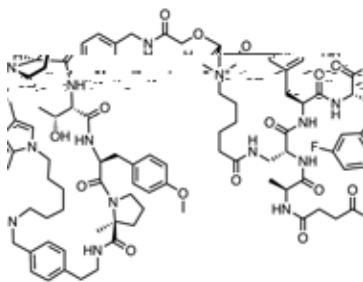
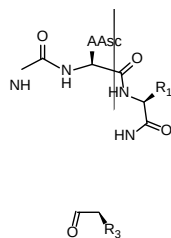
R = SH or aliphatic amine, or other groups used for modification

H-{Aib}-EGTFTSDVSSYLEGQAA-{C18}

Modified long chain-peptide (Semaglutide Analogs)



Dye modified peptide



放大

mg 100 g



HPLC



[1]. Hayden Peacock, et al. Discovery of De Novo Macrocyclic Peptides by Messenger RNA Display. Trends Pharmacol Sci.2021 May;42(5):385-397. doi: 10.1016/j.tips.2021.02.004.