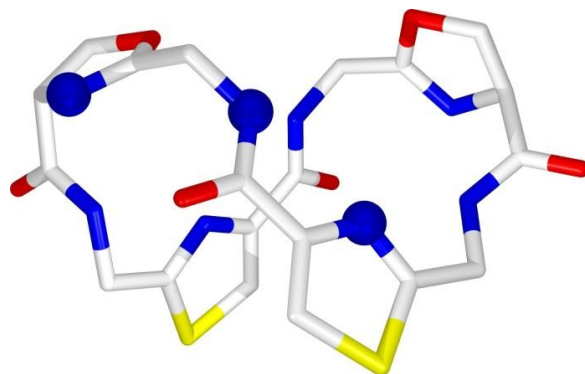
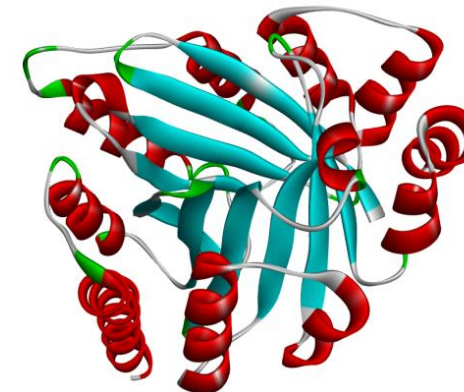
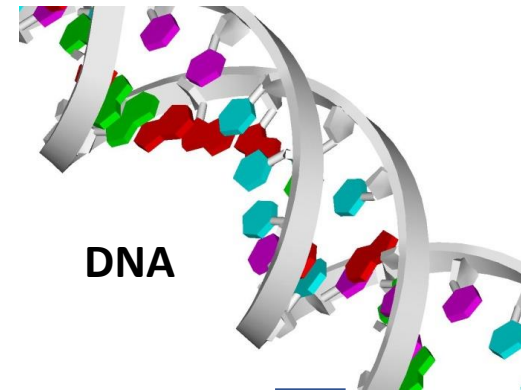


Using Genetic Sequence Data



Using GSD From Databases

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 PLAEAEMNPTNIPF



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 GFCEAV
 QAIADWT
 WYNRLS
 DPTIGI
 TDVMTC
 NPMNIPF

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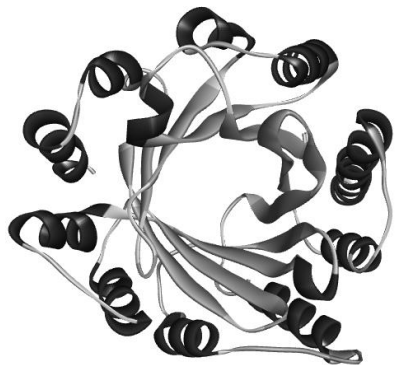
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 RDSVALWWYNRLRRPEVELSSFEOPYFLQLQQFYRSQN
 IGFGAHLDPKIAILRALTEVSQVGLLELDKVPDEKLDGE
 RWSDDIYTDVMACVEMAKVAGLETLVLDQTRPDIGLNV
 PLAEAEMNPTNIPF

Targeted modifications
Gene Synthesis
(Codon Optimised)

Original Protein Sequence

Find Analogues

Engineered Enzyme



Native enzyme



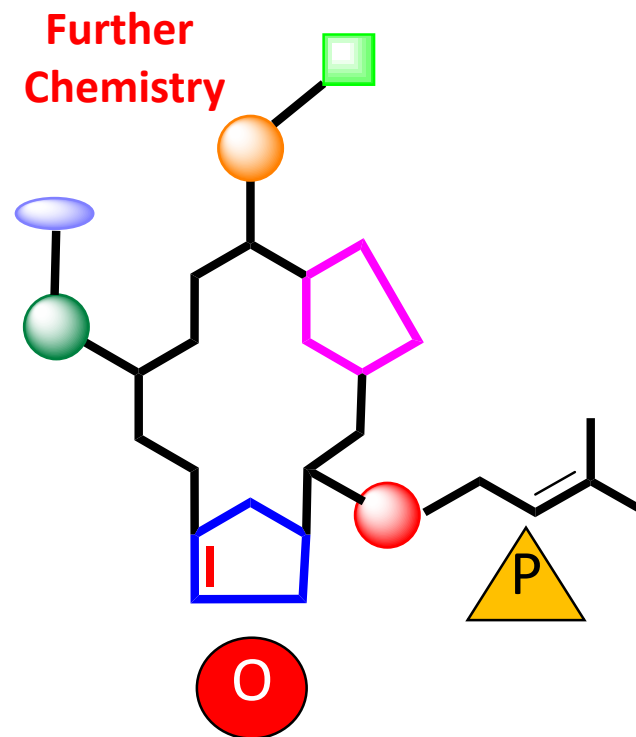
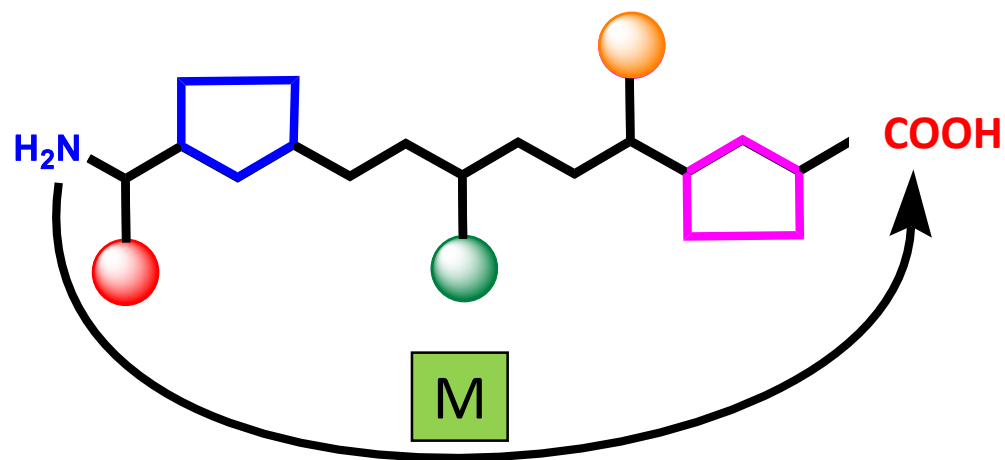
- Desired T range
- Desired pH range
- Desired specificity

Can be produced in bulk

Patentable

Using Engineered Enzymes

Novel Macrocycles for Drug Discovery and Development



Heterocyclase



Macrocyclase



Oxidase



Prenylase