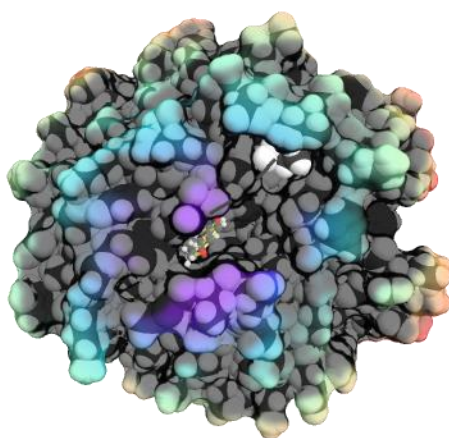




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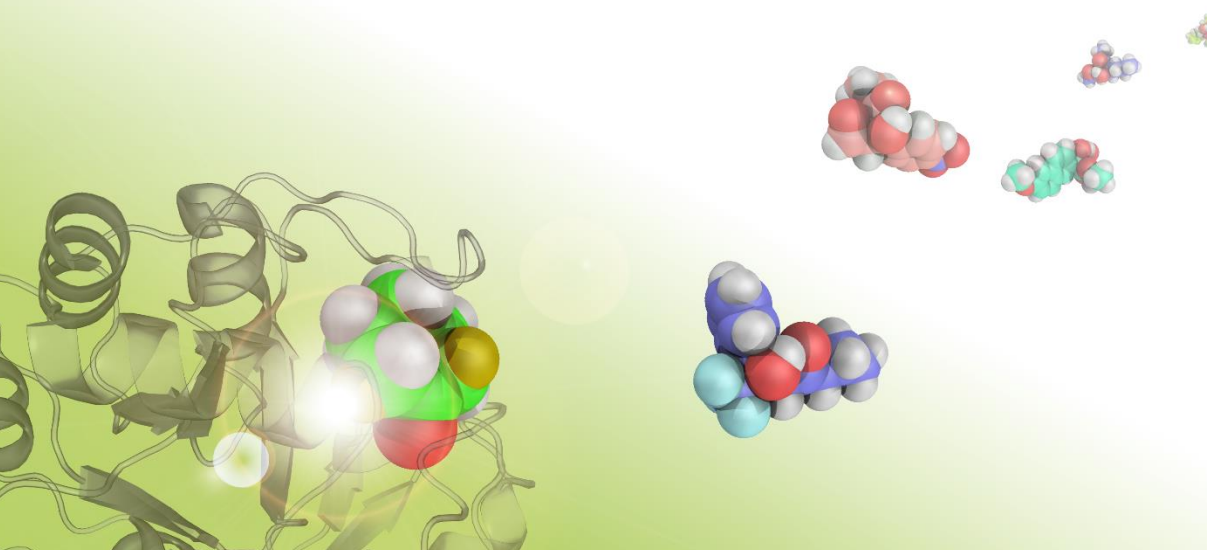
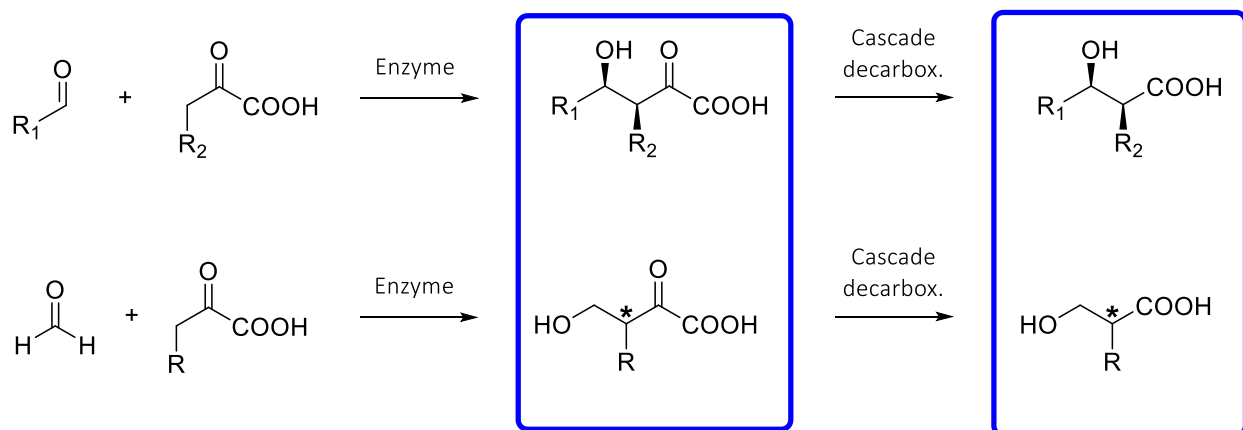


# Biocatalysts and Processes

4<sup>th</sup> February 2020

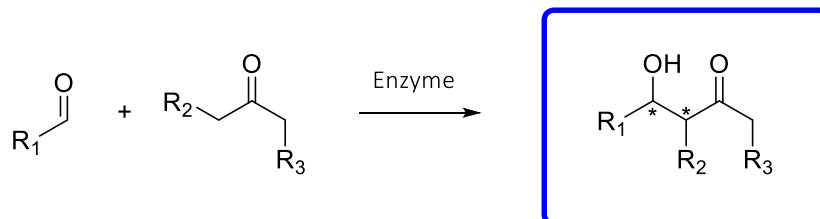
## Biocatalyst Set 1: Synthesis of 4-hydroxy-3-alkyl-2-oxo-1-carboxylic acids and 3-hydroxy-2-alkyl-1-carboxylic acids

A uniquely efficient set of enzymes for the aldol addition of alpha-ketoacids to aldehydes. Ideal to prepare all kind of Roche ester derivatives in very high yield and enantioselectivity.



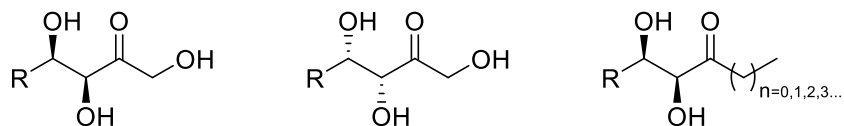
## Biocatalyst Set 2: Synthesis of hydroxyketones

A set of enzymes that yield structurally diverse *syn*-alpha, beta-dihydroxyketones and 3-hydroxyketones. Ideal to prepare ketose sugars and analogues.

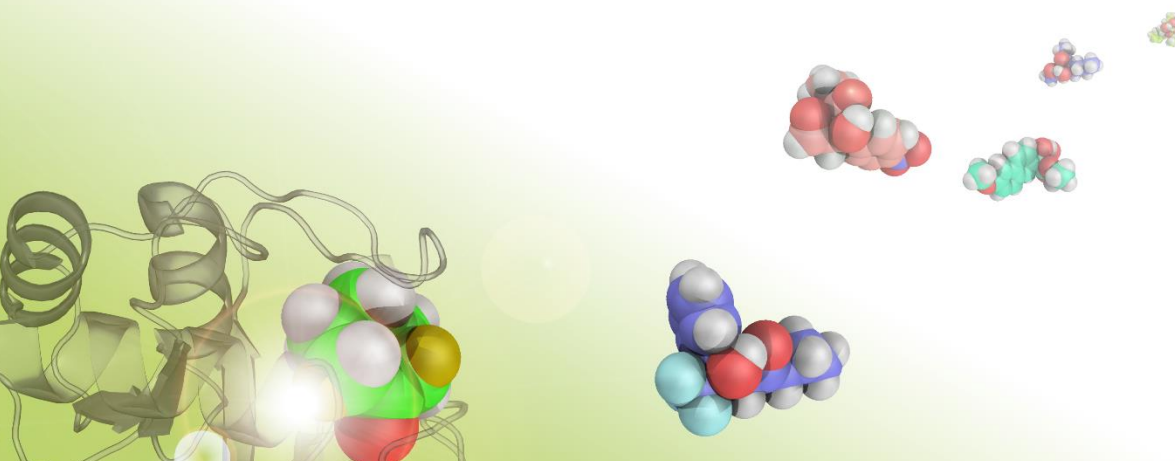
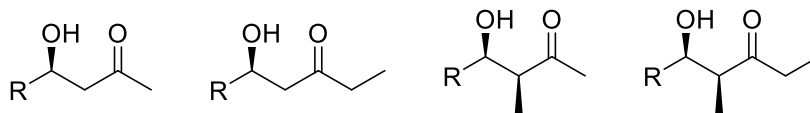


Product families include:

### Vicinal diols

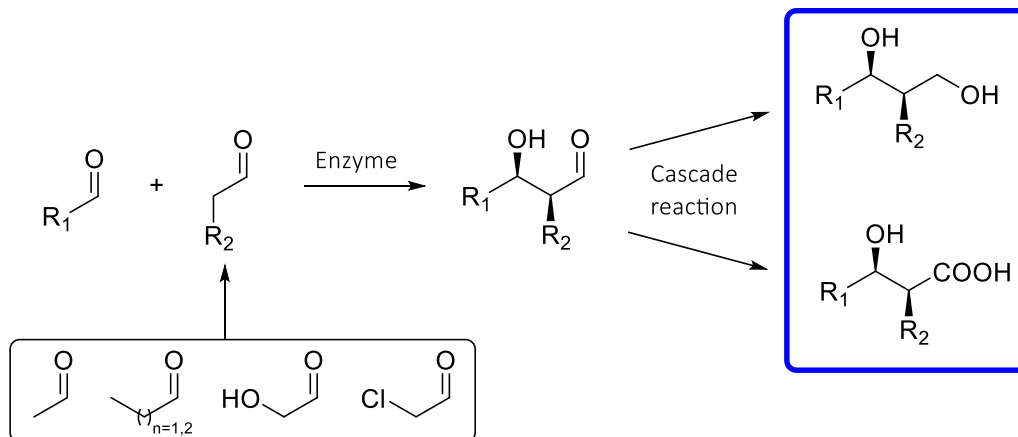


### 3-Hydroxyketones



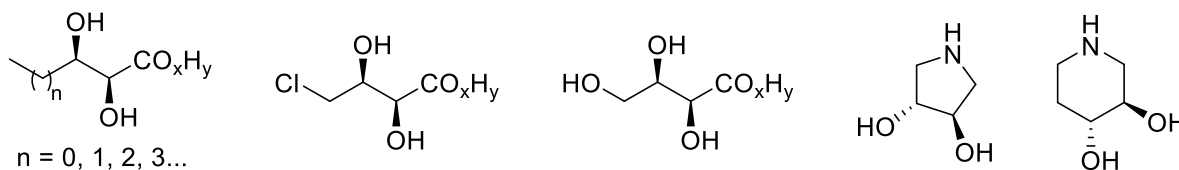
## Biocatalyst Set 3: Synthesis of 3-hydroxyaldehydes and derivatives

A set of enzymes that yield diverse 3-hydroxyaldehydes with great structural diversity.

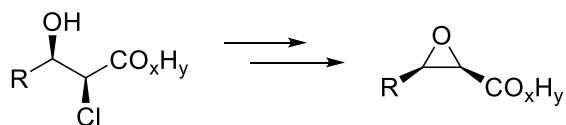


Product families include:

### Vicinal diols



### Vicinal chlorohydrins and derivatives



### 3-Hydroxyaldehydes and derivatives

