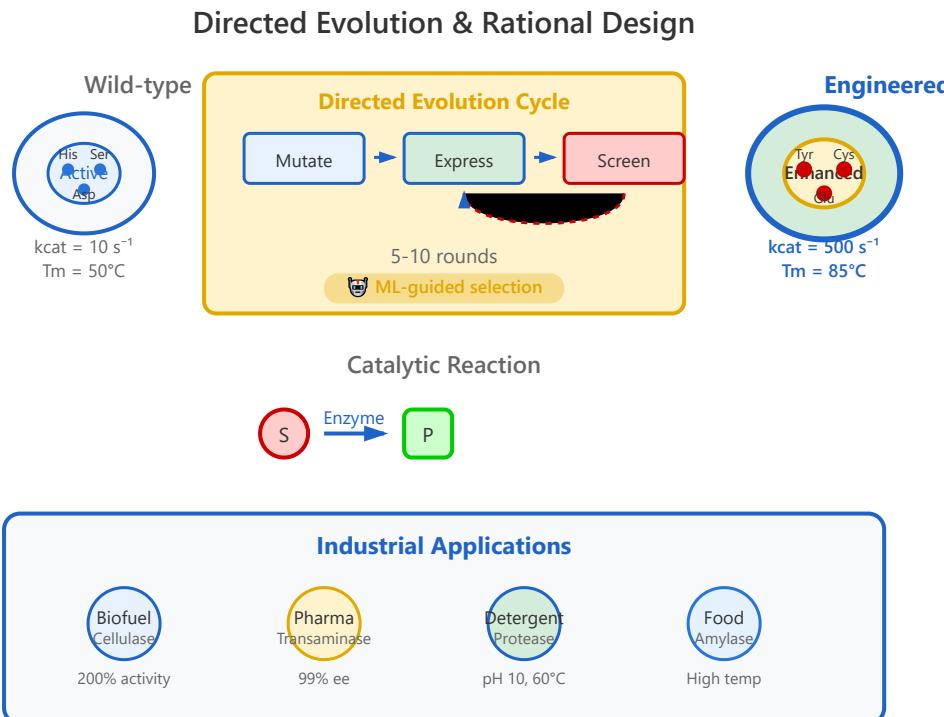


# Enzyme Engineering



## Activity improvement

$k_{cat}/K_m$  optimization

## Substrate specificity

Promiscuity engineering

## Thermostability

High temperature operation

## Solvent tolerance

Organic solvent resistance

## Directed evolution

Iterative improvement cycles