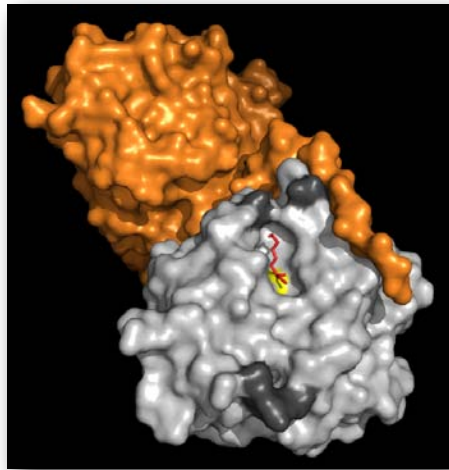


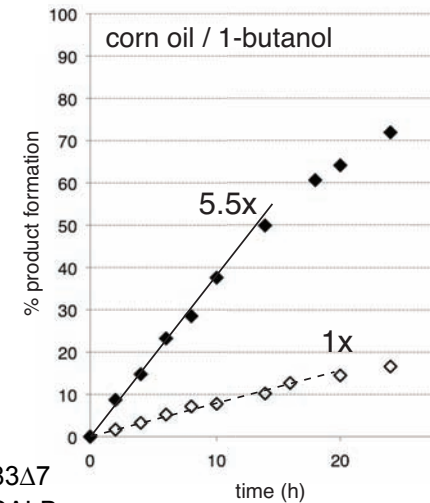
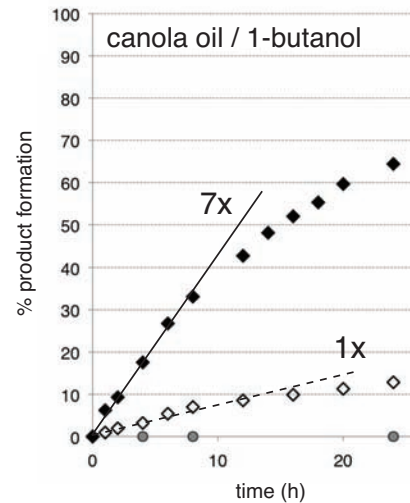
Hydrolase Engineering by Circular Permutation

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Enzyme engineering of lipase B from *Candida antarctica* (WT CALB) by circular permutation (CP) results in biocatalysts with rate enhancements of up to 100-fold while preserving the high parental enantioselectivity. A recent studies with one variant (cp283 Δ 7) demonstrates the enzymes superior performance as inter and trans-esterification catalysts for triglycerides and oils in biodiesel production.



Crystal structure of domain-swapped cp283 Δ 7 dimer with suicide inhibitor (PDB: 3icw)



◆ cp283 Δ 7
◇ WT CALB

