

CARBOXYESTERASE-MEDIATED AMIDATION

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Amide bond formation is one of the most common synthetic transformations for which there are many high yielding methodologies. Biocatalytic ester to amide transformations offer scaling-attractive improvements over chemical methodologies in the avoidance of stoichiometric reagents, improved poor atom economy and avoidance of hazardous byproducts. This talk will describe the engineering of a carboxyesterase into an amidation platform. The scalability and simplicity of the carboxyesterase amidation will be described.