

Review of: "Asymmetric biomimetic transamination of α -keto amides to peptides"

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In this paper, Zhao group developed an efficient strategy for asymmetric synthesis of peptides by using biomimetic organocatalysts. They pioneered an alternative method to employ N-quaternized axially chiral pyridoxamines for promoting enantioselective transamination of α -keto amides, which can be an ideal tool to replace the transaminases.

Noteworthy, the reported reactions can produce a wide range of peptides in good yields with excellent enantio- and diastereoselectivities. This work provides an attractive pathway for asymmetric synthesis of the peptides made of unnatural amino acids.