Massachusetts Institute of Technology Organic Chemistry 5.512

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Unit 3 Stereocontrolled Conjugate Addition

- ★ Intrinisic Stereochemistry in the Michael Reaction
- ★ Substrate Control: Asymmetric Induction by Molecular Framework
- ★ Substrate Control: Asymmetric Induction via Chiral Auxiliaries
- ★ Catalytic Asymmetric Conjugate Addition I: Unstabilized Nucleophiles
- ★ Catalytic Asymmetric Conjugate Addition II: Conjugate Reduction
- ★ Catalytic Asymmetric Conjugate Addition III:

Stabilized Nucleophiles (Michael Additions)

Hayashi-Miyaura Rh-Catalyzed Conjugate Addition Reactions

Reviews

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Recent variant using arylzinc compounds: J. Am. Chem. Soc. 2004, 126, 6240

Cu-Catalyzed Conjugate Addition of Organozinc Compounds

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