



Studies in Natural Products Chemistry: Chapter 4. Catalytic Asymmetric Strategies for the Synthesis of 3,3-Disubstituted Oxindoles

Albert Moyano, Xavier Companyó

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Functional diversity and molecular architecture in biologically active oxindoles. Transition metal-catalyzed intramolecular Heck reactions and amide alpha-arylations. Asymmetric rearrangements of O-carbonylated oxindoles and related processes. Amination, hydroxylation, and halogenation reactions of 3-substituted oxindoles. Conjugate addition and alkylation reactions of 3-substituted oxindoles. Asymmetric aldol and Mannich reactions of isatins. Michael additions to isatin-derived electron-deficient alkynes. Nucleophilic substitution reactions of functionalized 3-substituted oxindoles. Enantioselective construction of spirooxindoles by cycloaddition, annulation, and cascade cyclization reactions of methyleneindolinone derivatives. The 3,3-disubstituted-2-oxindole moiety is present in many chiral alkaloids that exhibit interesting biological activities. The enantioselective synthesis of chiral oxindole derivatives has been mainly achieved by asymmetric catalytic methods. In this review we highlight the most important catalytic methods relevant to the synthesis of chiral, non-spirocyclic 3,3-disubstituted oxindoles.

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