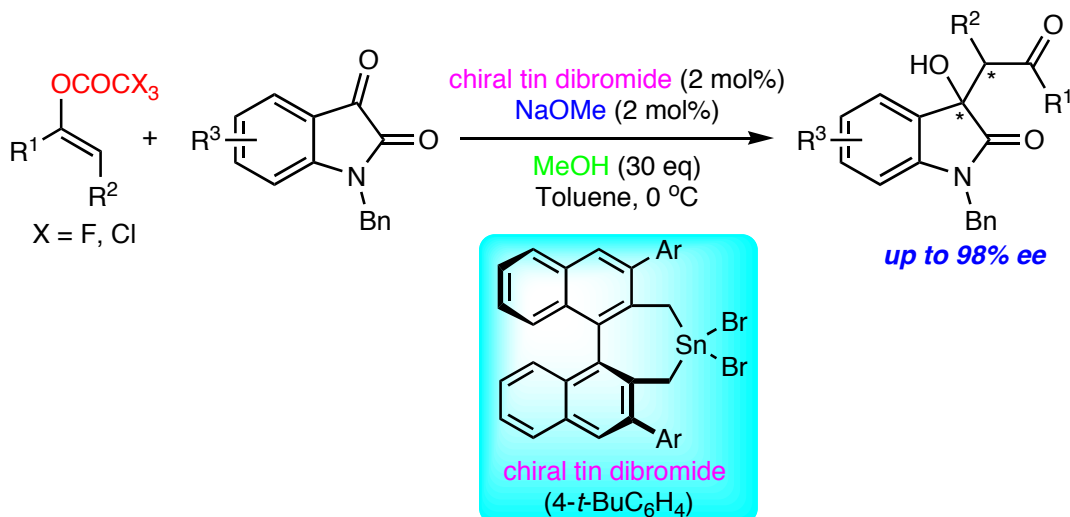


Catalytic Enantioselective Synthesis of Chiral Isatin Derivatives by an Aldol Approach

Yanagisawa, A.; Kushiara, N.; Sugita, T.; Yoshida, K.
Synlett **2012**, 23, 1783-1788.



A catalytic enantioselective aldol reaction of alkenyl esters with isatins was achieved using an (*S*)-BINOL-derived chiral tin dibromide possessing a 4-*tert*-butylphenyl group at 3- and 3'-positions as the chiral pre-catalyst in the presence of sodium methoxide and methanol. Optically active 3-alkylated 3-hydroxy-2-oxindoles having up to 98% ee were diastereoselectively obtained in high yields not only from cyclic alkenyl esters but also from acyclic ones under the influence of the in situ generated chiral tin bromide methoxide.

【研究室の HP】

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