(F) Li and co-workers reported a method for the synthesis of 4-halo-tetrahydropyrans by indium trichloride mediated tandem carbonyl allylation–Prins-cyclization of aldehydes with allyltributylstannane.⁹

(G) Regio- and diastereoselective allylations of pyridinium and quinolinium salts were promoted by addition of allyltributylstannane towards intermediary cation π -complexes. The reactions afforded the 1,2-adducts.¹⁰

(H) Allyltributylstannane promotes the cycloaddition of dienes to 2-methacrolein catalyzed by chiral BINOL-In(III) complex. Addition of allyltributylstannane facilitates the transmetalation reaction to afford the formation of a chiral BINOL-In-allyl complex.¹¹

(I) Allylstannanes serve as radical transfer agents to promote the radical cyclization of 1,6-enynes.¹²

(J) β -Carbolines react with allyltributylstannane and 2,2,2-trichloroethyl chloroformate to afford 1-allyl-1,2-dihydro- β -carboline derivatives in a diastereoselective manner.¹³

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