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Lewis Acid Catalyzed 1,4 Hosomi-Sakurai Addition of Allyl Groups to Chalcones and Other A, B-Unsaturated Compounds

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Poster Presentation P14

**LEWIS ACID CATALYZED 1,4 HOSOMI-SAKURAI ADDITION OF
ALLYL GROUPS TO CHALCONES AND OTHER
A, B-UNSATURATED COMPOUNDS**

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The Hosomi-Sakurai reaction provides a convenient way for the addition of an allyl group to ketones, aldehydes, acetals, imines, epoxides, and acid chlorides. But typically the reaction requires low temperatures, anhydrous solvent and the use of a corrosive catalyst, TiCl_4 . We have studied the utility of nontoxic and non-corrosive Lewis acids such as bismuth triflate, erbium triflate and iron tosylate for the allylation of a variety of chalcones. Preliminary results from this study will be presented.

