



Université Blaise Pascal

UNIVERSITÉ BLAISE PASCAL
U.F.R. de Recherche Scientifique et Technique



CYCLE DE CONFÉRENCES DE CHIMIE

Avec le concours de : *Manufacture Française des Pneumatiques MICHELIN*
Centre de Développement Préclinique, Schering-Plough
Fédération de Chimie (FR 2404)
Section Auvergne de la Société Française de Chimie
U.F.R.S.T. / Master de Chimie / Département de Chimie

Mercredi 17 Mars 2010 à 15h30

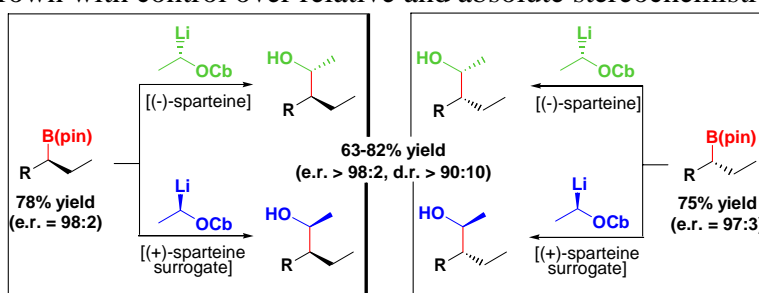
Amphi de Chimie Paul REMI - (Site des Cézeaux)

Pr. Varinder Aggarwal

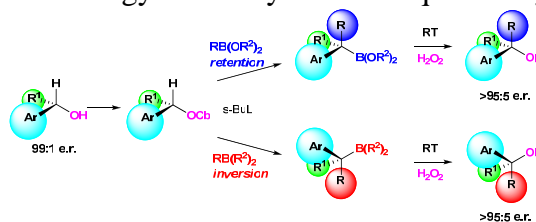
School of Chemistry, Bristol University

Chiral Carbenoids for Asymmetric Synthesis

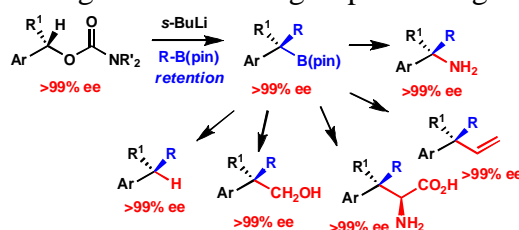
In this presentation I will discuss the reactions of Hoppe's lithiated carbamates with boronic esters which leads to homologated boronic esters. The reaction can be carried out iteratively which allows carbon chains to be grown with control over relative and absolute stereochemistry.¹



I will also discuss our recent methodology for the synthesis of quaternary stereogenic centres²...



...and its applications to a broad range of functional groups and targets...



¹ J. L. Stymiest, G. Dutheuil, A. Mahmood, V. K. Aggarwal, *Angew. Chem. Int. Ed.*, **2007**, *46*, 7491-7494. G. Dutheuil, M. P. Webster, V. K. Aggarwal, *Angew. Chem. Int. Ed.*, **2009**, *48*, 6317-6319.

² J. L. Stymiest, V. Bagutski, R. M. French, V. K. Aggarwal, *Nature*, **2008**, *456*, 778-782.

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