

***New developments in C-C and C-Si
 bond forming reactions.***

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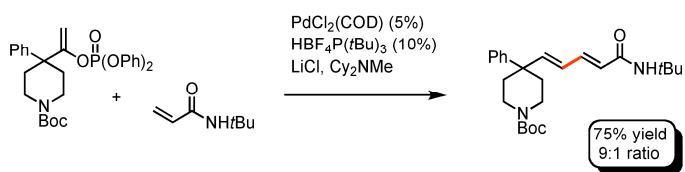
Friday 29th January, 2010. ICIQ Auditorium, 12 p.m.



In this talk, some recent results in the development of new C-C and C-Si bond forming reactions will be presented. The first part will consist on the discussion of the work on Pd-catalysis, where it has been observed a novel 1,2-migration in the Mizoroki-Heck, Suzuki-Miyaura and Negishi couplings promoted by a possible β -hydride elimination of alkenyl palladium(II) intermediates. Furthermore, in the investigations of this unusual migration, an intermolecular ene-yne coupling has emerged, which not only represents

an atom economical version of the Mizoroki-Heck reaction, but also complements Trost's seminal work on the cycloisomerization reaction of ene-ynes. Finally, recent efforts on the development of a general synthetic strategy to silanediol protease inhibitors involving the sequential formation of two carbon-silicon bonds from diphenylsilane will be discussed.

Mizoroki-Heck reaction with 1,2-migration



Silandiol isostere synthesis

