Univerzita Karlova v Praze, Přírodovědecká fakulta

Sekce chemie PřF UK v Praze
zve všechny zájemce na přednášku z cyklu

Quo Vadis Chemie

Palladium-Catalyzed Functionalization of Olefins

kterou přednese

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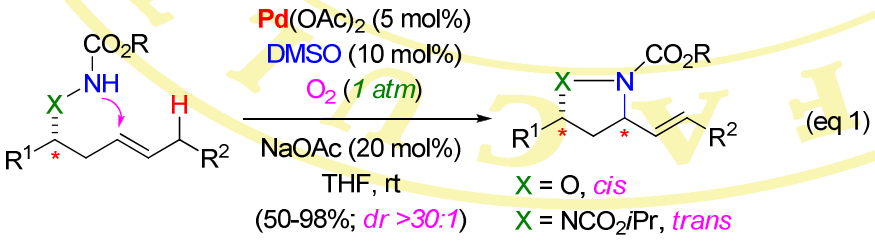
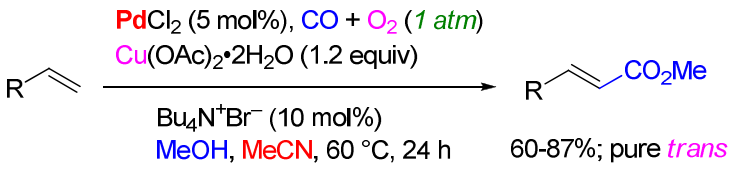
dne 17. 03. v 14:00 hod.
v posluchárně CH2, v budově chemických kateder PřF UK
Hlavova 8, Praha 2



(eq 1)



(eq 2)

Abstrakt: An efficient and practical Pd^{II}-catalyzed intramolecular oxidative allylic amidation provides a facile access to derivatives of 1,3- and 1,4-amino alcohols and 1,3-diamines. The method operates under mild conditions (rt) with molecular oxygen (1 atm) as the sole stoichiometric reoxidant of Pd (eq 1). Excellent diastereoselectivities were attained with substrates bearing a secondary stereogenic center. Modification of the reaction conditions by introducing CO atmosphere and MeCN/MeOH as a solvent results in the novel carbonylation reaction that converts terminal olefins into the *trans*-configured α,β-unsaturated esters (eq 2). Application of this methodology to the construction of biologically significant molecules will be illustrated.