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Palladium-Catalyzed Unprecedented Cross-Coupling of Phenols and Halides for The Synthesis of Aromatic Ethers

Abstract

Phenolic compounds present in medicinal and edible plants such as, flavonoids, chalcones, coumarins, quinones and phenolic acids. The antioxidant potential of phenolic compounds show potent activities for cancer prevention and its treatment. Per green chemistry point of view, cascade (tandem) reactions are ideal techniques in organic synthesis for building complex structures. Cascade techniques sometimes been observed in coupling reactions under mild conditions with tolerance of multifunctional groups. It will be interesting to find a cascade type reaction to synthesize polyphenolic ethers. This research project focusses in achieving a new cross-coupling method for establishing polyphenolic ethers from mixed phenols and halides in the presence of palladium catalyst.