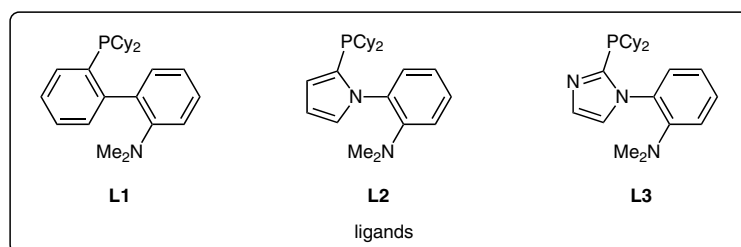
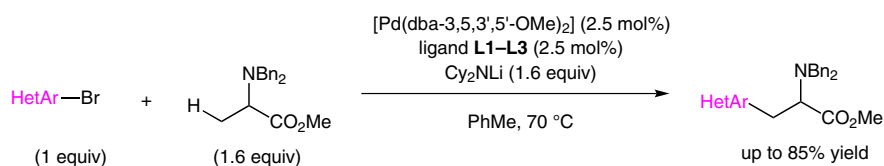
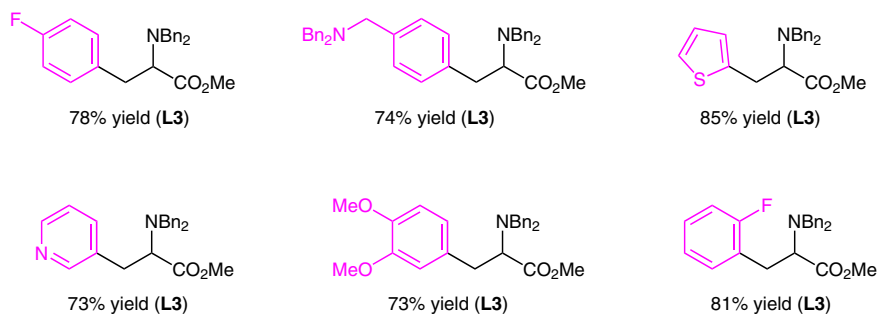


## Palladium-Catalyzed $\beta$ -Arylation of $\alpha$ -Amino Esters



### Selected examples:



**Significance:** A novel general  $\beta$ -arylation of protected alanine esters to yield synthetically useful (hetero)aryl alanine building blocks has been disclosed. The protocol utilizes a lithium amide to form an enolate that undergoes a palladium-catalyzed C–C coupling with various aromatic bromides.

**Comment:** Interestingly, the reaction could be extended to  $\alpha$ -amino acids bearing other linear alkyl chains. Arylation occurs preferentially at the terminal Csp<sup>3</sup>-H bond, thus providing  $\delta$ -,  $\epsilon$ - and even  $\zeta$ -arylated products. All products could be deprotected via hydrogenolysis to give the respective amines.