T. JOHNSON, M. LAUTENS* (UNIVERSITY OF TORONTO, CANADA)
Palladium(II)-Catalyzed Enantioselective Synthesis of α-(Trifluoromethyl)arylmethylamines
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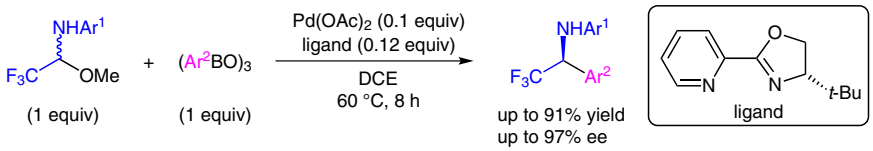
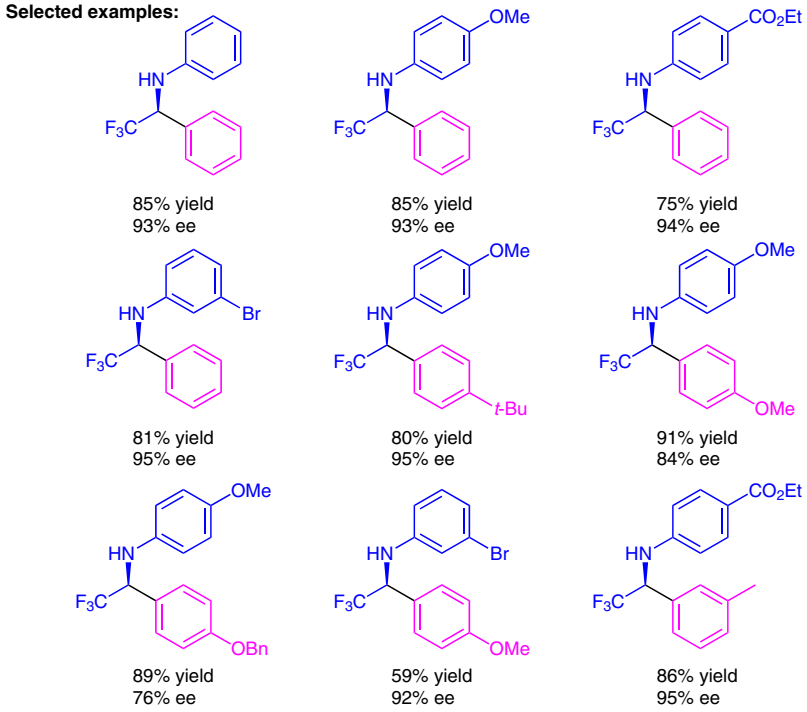
Pd-Catalyzed Enantioselective Synthesis of α-(Trifluoromethyl)arylmethylamines



Selected examples:



Significance: Trifluoromethylacetaldimines, generated in situ from the corresponding *N*,*O*-acetals, undergo 1,2-addition of arylboroxines under palladium catalysis to generate a variety of *R*-(trifluoromethyl)arylmethylamines with good to high enantioselectivity and yield.

Comment: The reported protocol is very versatile since it proceeds without the exclusion of ambient air and moisture. Moreover, several functional groups are tolerated, and readily available *N*,*O*-acetals synthesized from trifluoroaldehyde are used as starting materials.

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Category

Metal-Mediated Synthesis

Key words

α-(trifluoromethyl)-arylmethylamines

enantioselective synthesis

boronic acids

palladium

SYNFACT of the month