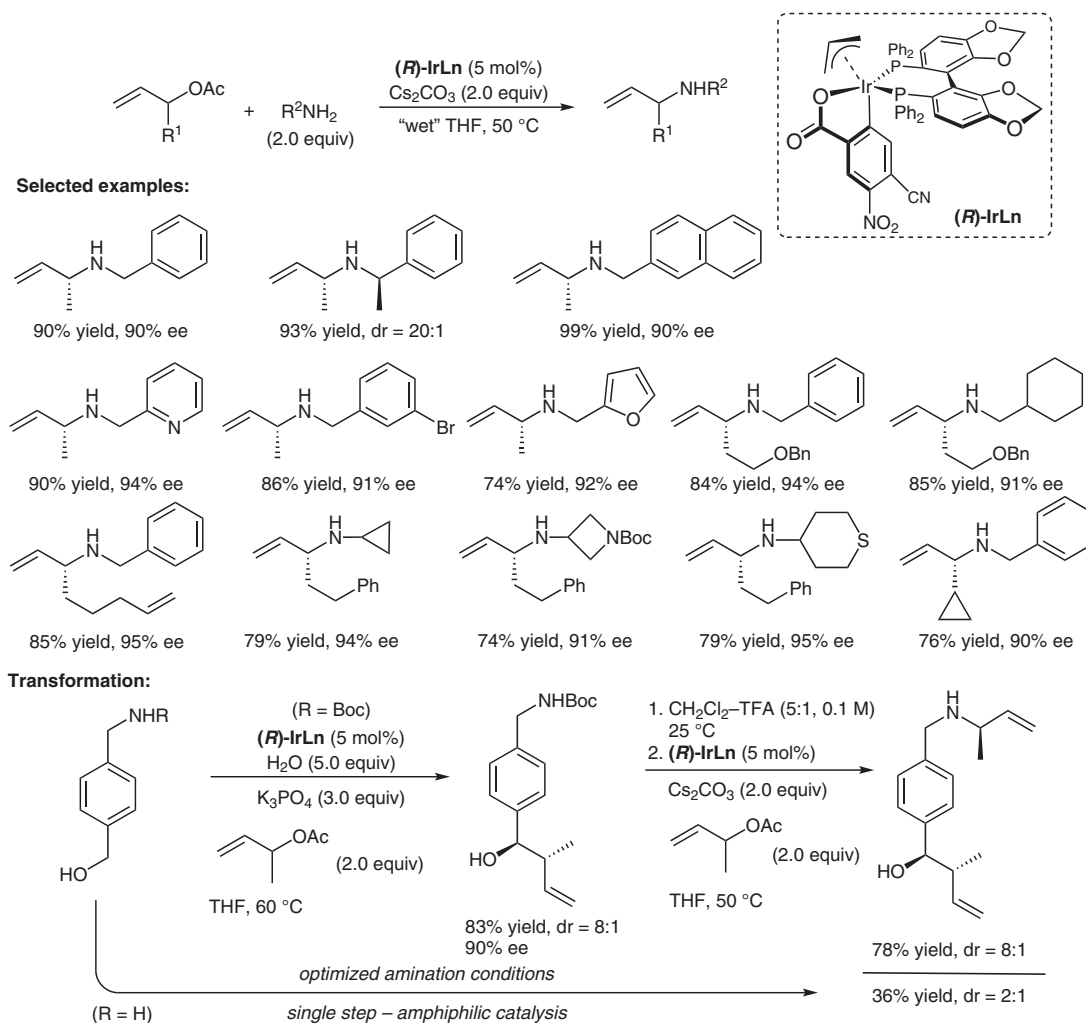


A. T. MEZA, T. WURM, L. SMITH, S. W. KIM, J. R. ZBIEG*, C. E. STIVALA*, M. J. KRISCHE* (GENENTECH, INC., SOUTH SAN FRANCISCO AND UNIVERSITY OF TEXAS, AUSTIN, USA) Amphiphilic π -Allyliridium *C,O*-Benzoates Enable Regio- and Enantioselective Amination of Branched Allylic Acetates Bearing Linear Alkyl Groups
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Iridium-Catalyzed Regio- and Enantioselective Amination



Significance: Several π -allyliridium *C,O*-benzoates are known to act as catalysts for nucleophilic carbonyl allylation. In contrast, the authors report that a π -allyliridium *C,O*-benzoate modified by SEGPHOS catalyzes the chemo-, regio-, and enantioselective electrophilic aminations of branched allylic acetates bearing linear alkyl groups.

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Comment: The π -allyliridium *C,O*-benzoate is commercially available and stable to air, water, and silica-gel chromatography. The authors demonstrated that both nucleophilic and electrophilic allylations proceed with the same iridium catalyst under similar conditions.