

Regio- and Enantioselective *N*-Allylation of Imidazoles, Purines, and Indoles

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Highly regio- and enantioselective iridium-catalyzed *N*-allylations of nitrogen-containing heterocycles have been developed. The reactions encompass a range of imidazole, purine, and indole nucleophiles, as well as a variety of unsymmetrical aryl, heteroaryl, and aliphatic allylic carbonates. The use of single-component, cyclometalated iridium ethylene complexes allows for a decrease in the iridium loadings and minimizes isomerization to the corresponding enamine.

