Palladium-Catalyzed Generation of C1 Ammonium Enolates

**Significance:** The authors disclose a palladium-catalyzed generation of C1 ammonium enolates from readily available halides, carbon monoxide, and catalytic chiral Lewis base. The intermediate participated in asymmetric reactions with ketimines.

**Comment:** The chiral dihydropyridione and β-lactam products were obtained in high yields, high diastereoselectivities, and excellent enantioselectivities. This methodology was employed in the asymmetric synthesis of an antiproliferative agent.