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Catalytic Generation of C1 Ammonium Enolates from Halides and CO for Asymmetric Cascade Reactions
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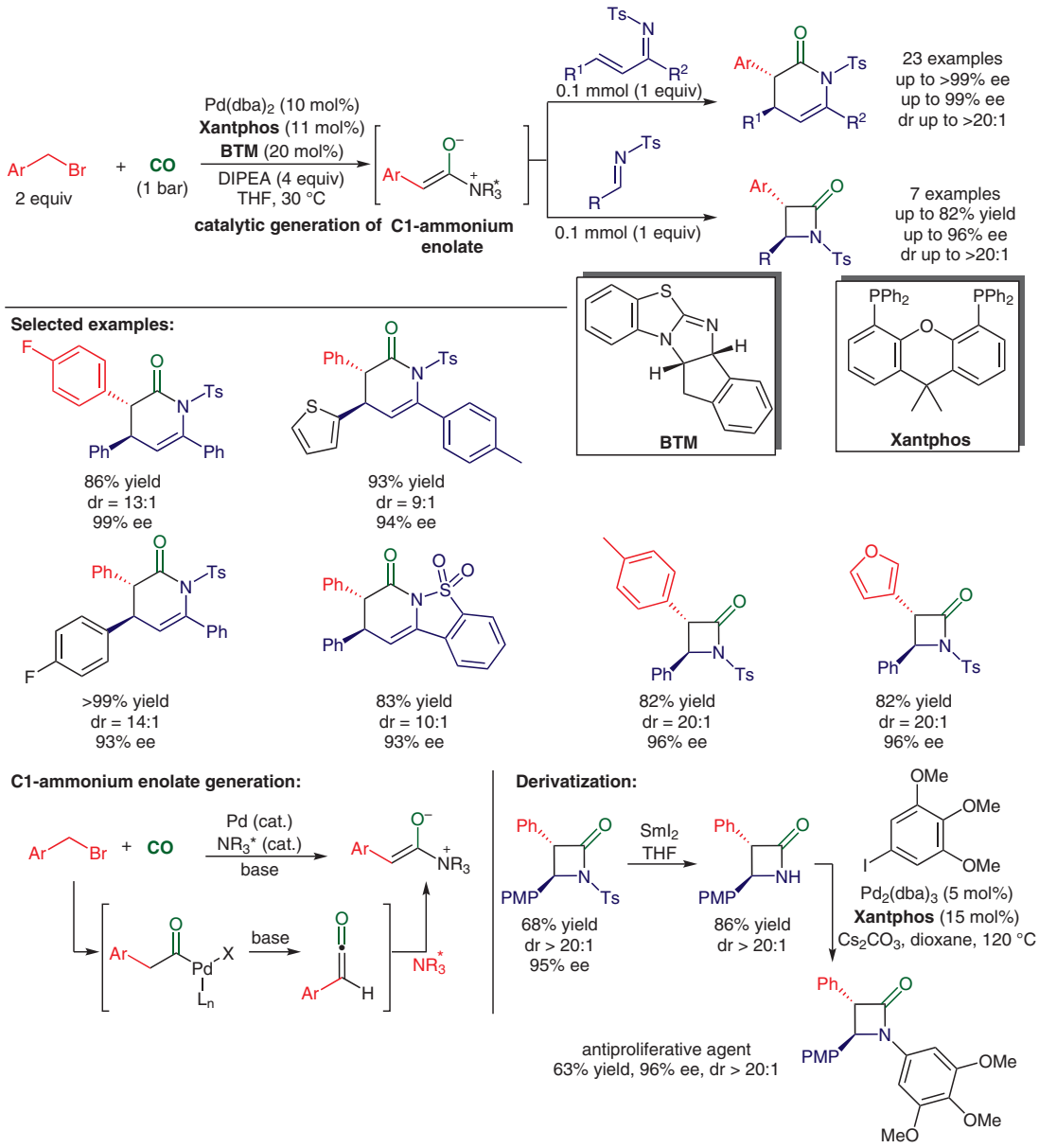
Palladium-Catalyzed Generation of C1 Ammonium Enolates



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 dihydropyridone 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.

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