M. TOBIU,* A. YASUTOME, H. KINUTA, K. NAKAMURA, N. CHATANI* (OSAKA UNIVERSITY, JAPAN)
1,3-Dicyclohexylimidazole-2-ylidene as a Superior Ligand for the Nickel-Catalyzed Cross-Coupling of Aryl and Benzyl Methyl Ethers with Organoboron Reagents

Nickel-Catalyzed Suzuki–Miyaura Cross-Coupling

**Significance:** The authors developed a novel nickel-based catalyst for the cross-coupling of aryl and benzyl methyl ethers with organoboron reagents. The use of Ni(cod)₂ and 1,3-dicyclohexylimidazol-2-ylidene (A) gave the expected products in good yields while showing good functional group tolerance.

**Comment:** Notably, when using A instead of Cy₃P, heteroaryl ethers were coupled in good yields (up to 96%), while the same reaction with Cy₃P led to no product.

**Selected examples:**

- 76% yield
- 81% yield
- 76% yield
- 65% yield
- 80% yield
- 74% yield

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