T. MORITA, H. MURAKAMI, Y. ASAWA, H. NAKAMURA* (TOKYO INSTITUTE OF TECHNOLOGY, YOKOHAMA, JAPAN)
 Enantioselective Synthesis of Oxazaborolidines by Palladium-Catalyzed N-H/B-H Double Activation of 1,2-Azaborines
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Access to Oxazaborolidines by Catalytic Cycloaddition of 1,2-Azaborines and Vinyl Ethylene Carbonate

Significance: A palladium-catalyzed protocol for the (asymmetric) construction of oxazaborolidines is reported. The transformation proceeds through a decarboxylative/dehydrogenative (3+2) cycloaddition of 1,2-azaborines and vinyl ethylene carbonate.

Comment: This procedure provides access to polycyclic oxazaborolidines in good yields and excellent enantioselectivities. Mechanistic experiments support the release of molecular H₂ from the zwitterionic intermediate A.

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