

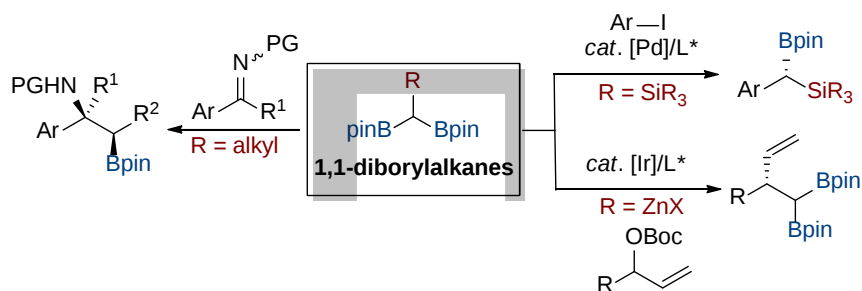
# Catalytic Reactions of 1,1-Diborylalkanes and (Diborylmethyl)metallic Species

Seung Hwan Cho

Department of Chemistry, POSTECH E-mail: seunghwan@postech.ac.kr

Organoborons are highly versatile intermediates in organic chemistry because they can serve as versatile platforms to afford various synthetically important chiral building blocks via stereospecific carbon-carbon and carbon-heteroatom bond forming reactions. Over the past few years, 1,1-diborylalkanes, which contain two identical boron groups at the same  $sp^3$  carbon center, have been emerged as new types of synthetic precursors. Such reagents provide significant advantages for increasing molecular diversity and complexity through stereospecific and/or iterative carbon-carbon and carbon-heteroatom bond-forming reactions.

In this seminar, the details about our recent findings for the catalytic enantioselective transformations of 1,1-diborylalkanes and (diborylmethyl)metallic species will be presented.<sup>1-5</sup>



## References

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