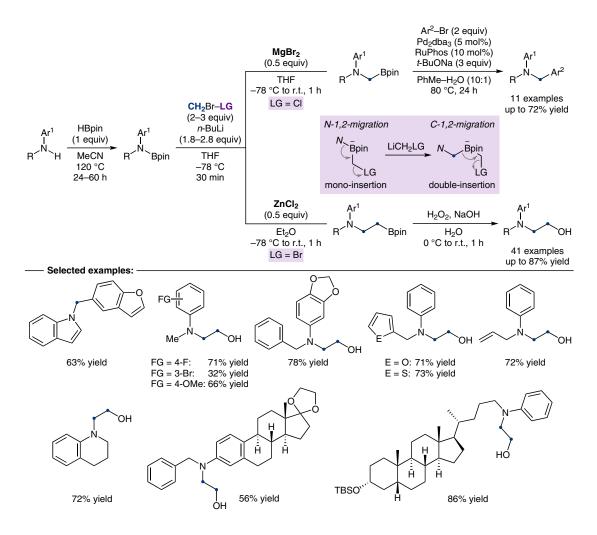
## Aza-Matteson Homologations: Selective Mono- and **Double-Carbenoid Insertions into Aminoboranes**



Significance: In 1963, Donald S. Matteson developed a valuable strategy allowing for carbenoid insertions into C-B bonds. While this homologation reaction has been thoroughly investigated, its extension to N-B bonds remained unexplored. The authors describe an aza-Matteson homologation leading to the selective construction of various  $\alpha$ - and  $\beta$ -substituted amines, which are versatile, synthetically useful building blocks for further transformation.

**Comment:** Starting from readily accessible aminoboranes, the aza-Matteson reaction provides access to various  $\alpha$ - and  $\beta$ -substituted amines in good yields. By the choice of the Lewis acid and leaving group attached to the carbenoid, selective monoor double-methylene insertion is achieved. The synthetic utility of the method was demonstrated by the derivatization of biologically active compounds.

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