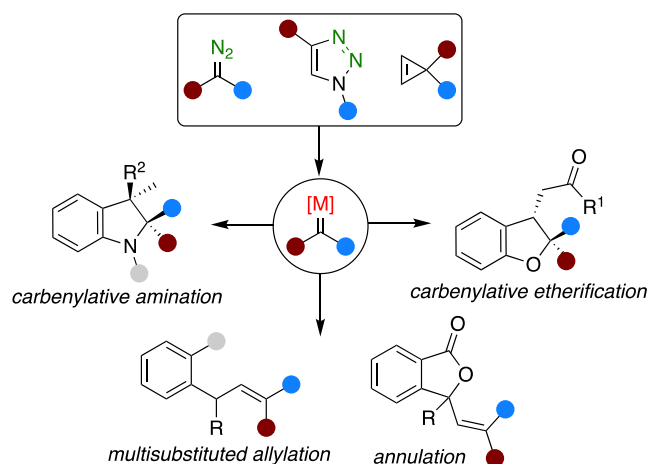


# Functionalization of Metallocarbenes Derived from Diazo and Non-Diazo Surrogates

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## Abstract:

Metallocarbenes show versatile reactivity in organic synthesis and offers access to diverse complex frameworks in single step. Most often these metallocarbenes are generated from  $\alpha$ -diazocarbonyl compounds in the presence of suitable transition metal.<sup>1</sup> Recently, *N*-sulfonyl-1,2,3-triazoles and cyclopropenes have emerged as unique surrogates and offers structurally different metallocarbenes, which possess distinct reactivity.<sup>2</sup> The unique reactivity of these metallocarbene precursor have been efficiently utilized in our lab for the carbenylative functionalization of *o*-vinylaniline/phenol derivatives, multisubstituted allylation of arenes and annulation reactions.<sup>3</sup> In addition, we are also studying their asymmetric approach with suitable chiral catalyst. In this presentation, our efforts on the catalytic functionalization of metallocarbenes and their asymmetric version will be discussed.



## References and Notes:

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