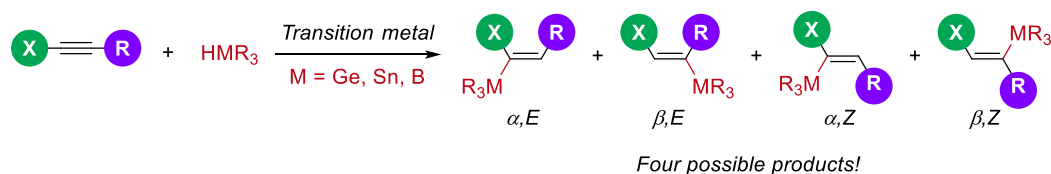


## Transition metal-catalyzed regiodivergent hydrometallation of polarized alkynes with Ge, Sn and B.

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Our group has a long lasting interest in the synthesis and the use of polarized alkynes for the design of complex molecules. Transition metal-catalyzed hydrometallation of polarized triple C≡C bonds is a useful technic to access metallated-olefins as valuable building block for further functionalization such as cross coupling. Unfortunately, this reaction usually suffers from very low selectivity and/or is biased by the substrate making this reaction poorly attractive. Recently, our group reported regiodivergent hydrometallation of polarized alkynes where we combined the benefit of polarized alkynes with the use of transition metal catalysis.<sup>[1]</sup> Different strategies were developed with electron-rich and electron-deficient alkynes aiming to enhance or rather overcome polarization of alkynes and make hydrometallation (Ge, Sn, B) reactions regiodivergent.<sup>[2]</sup>

### References :

- [1] V. Debrauwer, A. Turlik, L. Rummler, A. Prescimone, N. Blanchard, K. N. Houk, V. Bizet *J. Am. Chem. Soc.* **2020**, *142*, 11153-11164, [10.1021/jacs.0c03556].  
[2] M. Abd El Sater, L. Rummler, N. Blanchard, V. Bizet *unpublished results*

