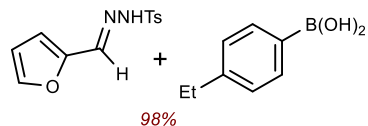
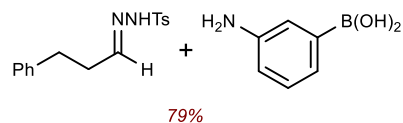
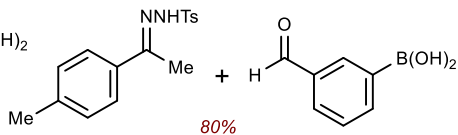
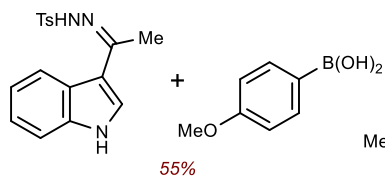
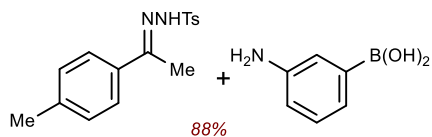
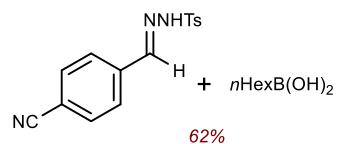
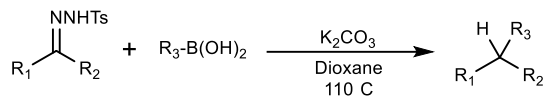
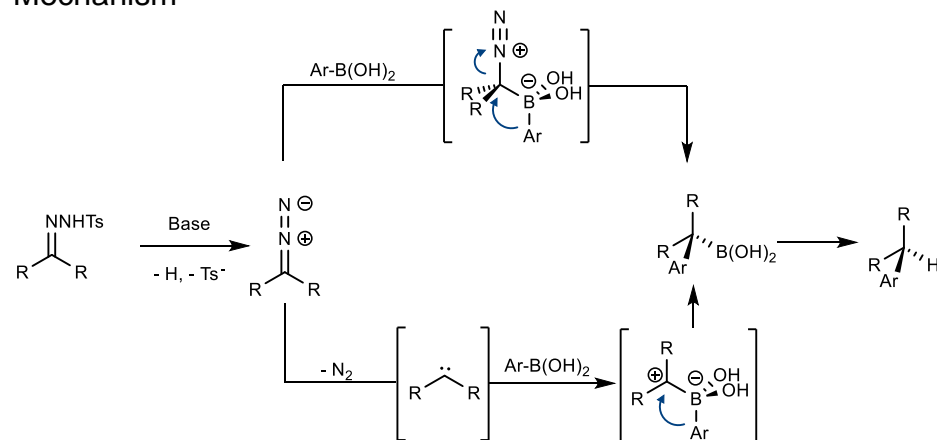


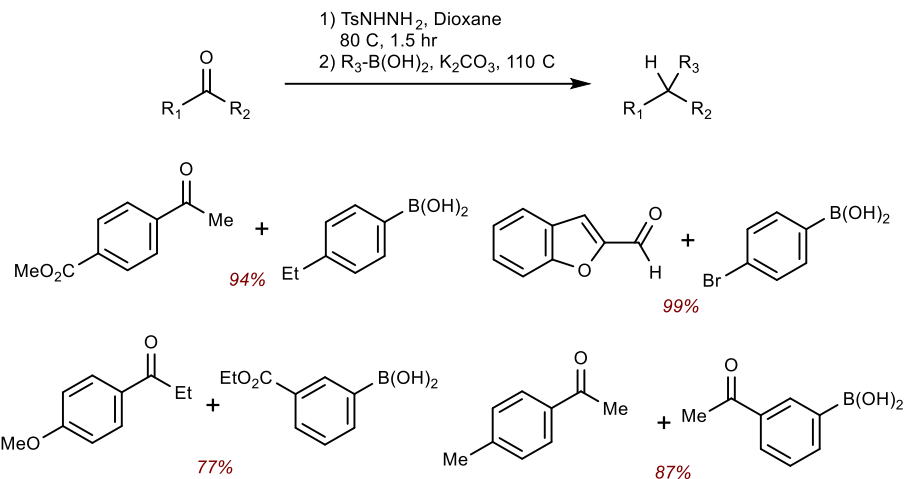
Initial Report (Barluenga/Valdes, 2009)



Mechanism

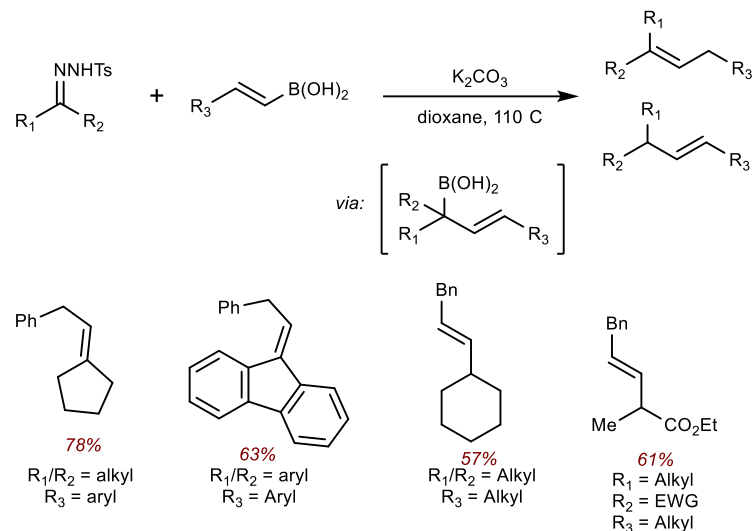


One-Pot Transformation



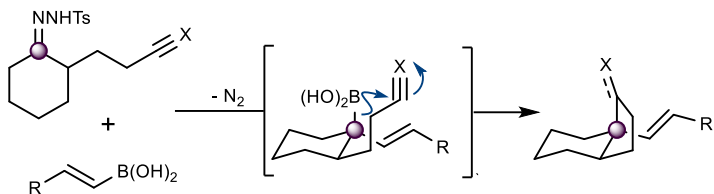
Nature Chem 1, 494–499 (2009) <https://doi.org/10.1038/nchem.328>

Extension to Vinyl Boronic Acids (Valdes, 2012)

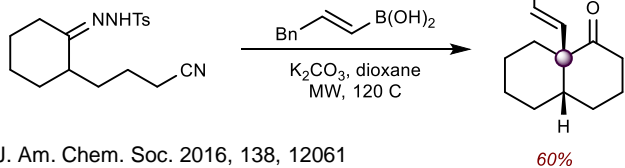
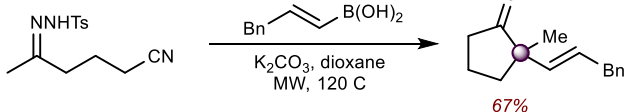
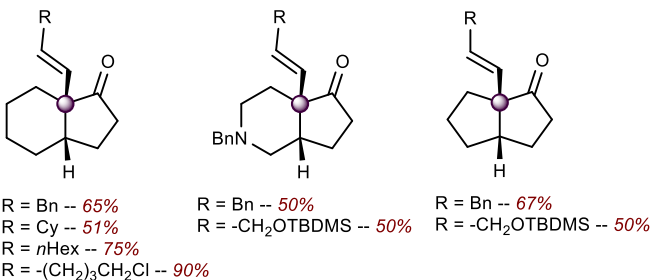
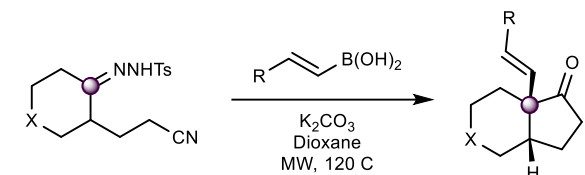


Angew. Chem. 2012, 124, 6055–6059 <http://dx.doi.org/10.1002/anie.201200683>.

Domino Carbocyclization (Valdes, 2016)

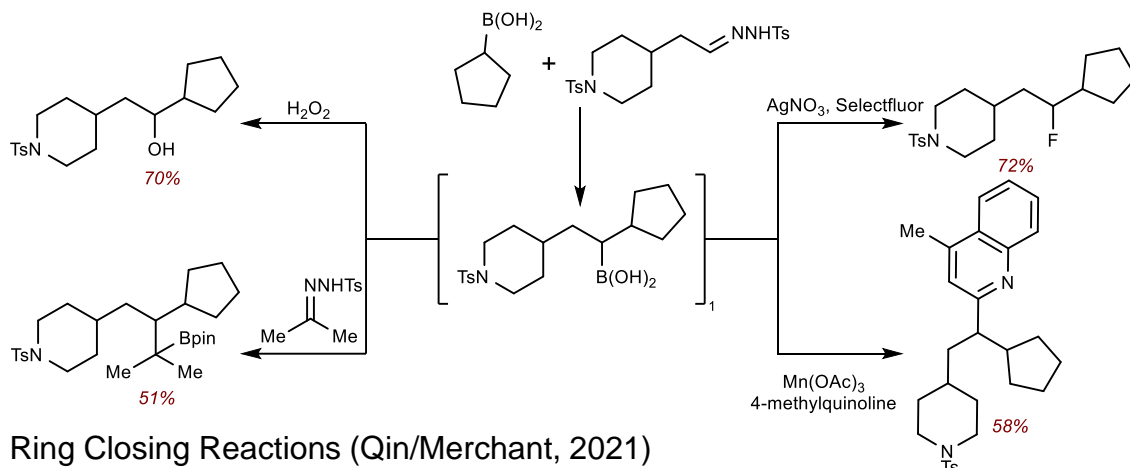
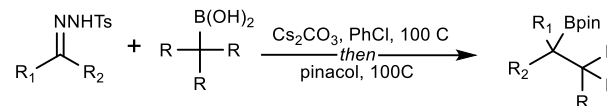


- Formation of all carbon quaternary center
- Two C-C bonds formed at one carbon center
- Stereospecific formation of cis-fused bicycles

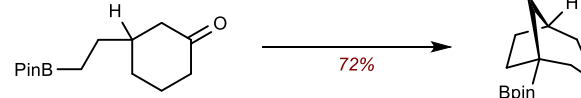
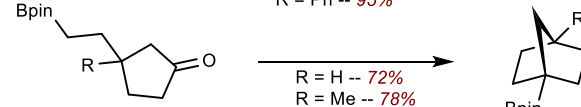
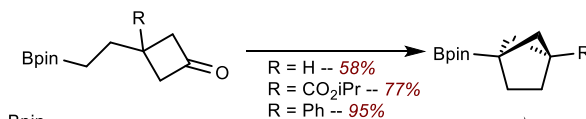
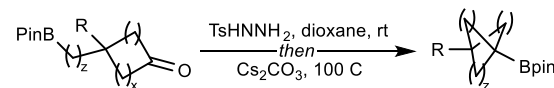
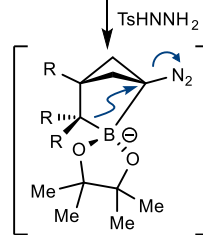
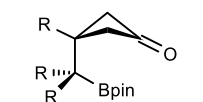


J. Am. Chem. Soc. 2016, 138, 12061
<http://dx.doi.org/10.1021/jacs.6b08116>

Synthesis of Alkyl Boronic Esters and Derivatization (Qin/Merchant, 2021)



Ring Closing Reactions (Qin/Merchant, 2021)



J. Am. Chem. Soc. 2021, 143, 471–480 <https://dx.doi.org/10.1021/jacs.0c11964?ref=pdf>
Nat. Chem. 13, 950–955 (2021) <https://doi.org/10.1038/s41557-021-00786-z>