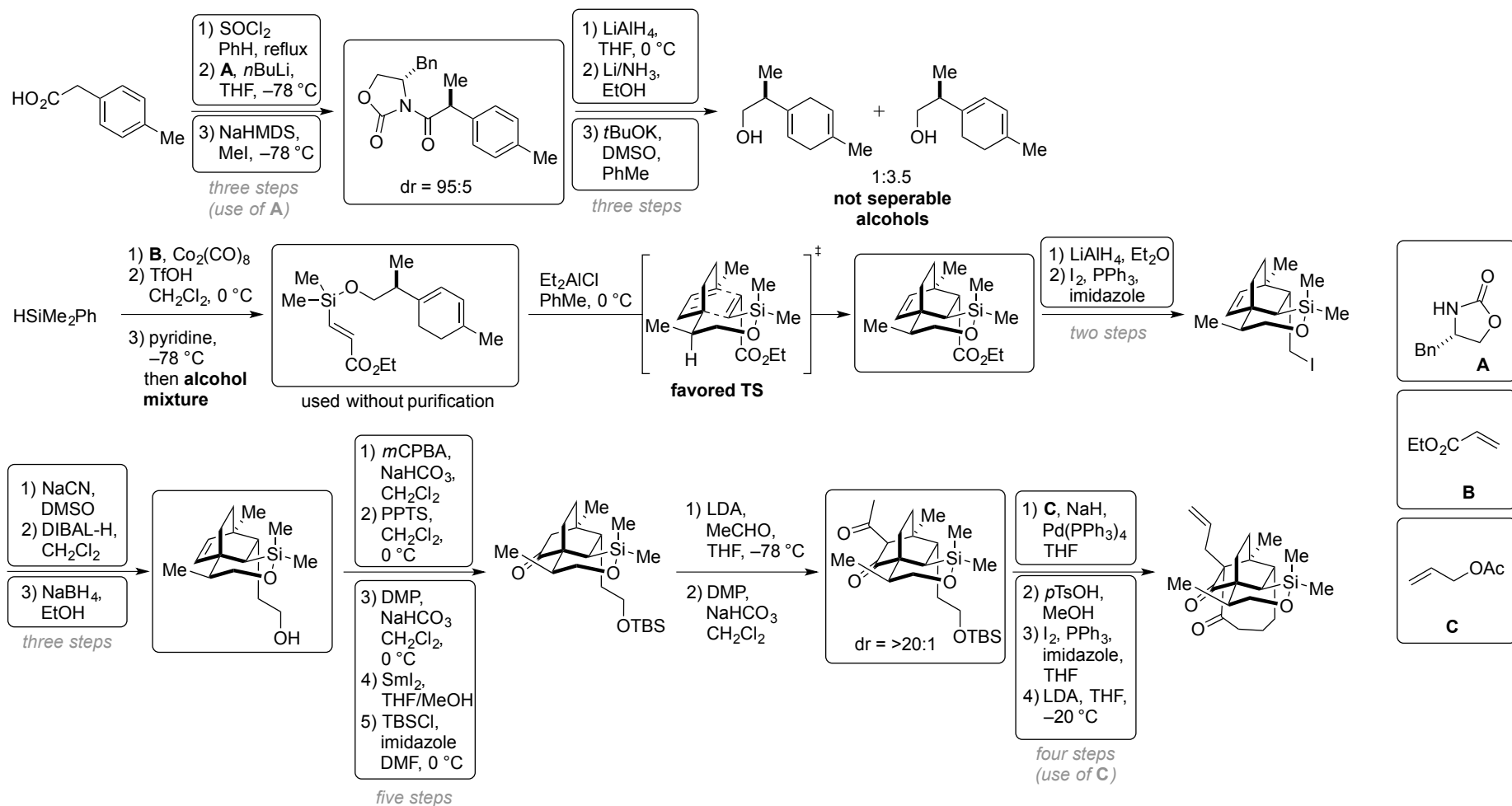


Solution E12: Total Synthesis of (–)-Calyciphylline N ^[1-5]



[1] A. Shvartsbart, A. B. Smith III, *J. Am. Chem. Soc.* **2014**, *136*, 870.

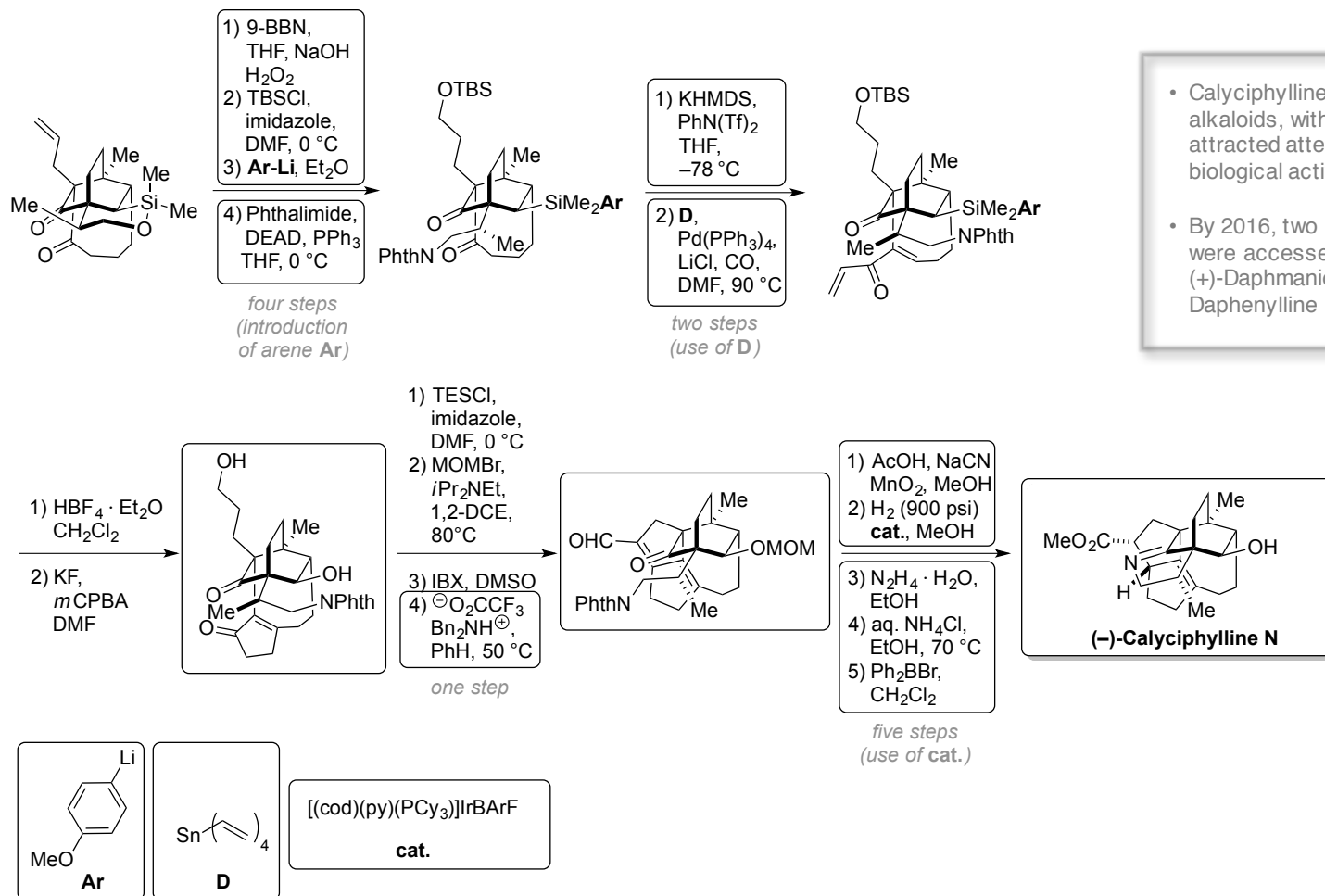
[2] A. Shvartsbart, A. B. Smith III, *J. Am. Chem. Soc.* **2015**, *137*, 3510.

[3] K. Mori, *Tetrahedron: Asymmetry* **2005**, *16*, 685.

[4] W. Uhlig, *Chem. Ber.* **1996**, *129*, 733.

[5] I. Fleming, R. Henning, H. Plaut, *J. Chem. Soc., Chem. Commun.* **1984**, 29.

Solution E12: Total Synthesis of (-)-Calyciphylline N ^[1-5]



- Calyciphylline N belongs to the daphniphyllum alkaloids, with more than 200 members. These attracted attention due to their manifold biological activities and structural complexity
- By 2016, two other daphniphyllum alkaloids were accessed by total synthesis: (+)-Daphmanidin E (E. M. Carreira, 2011) and Daphenylline (A. Li, 2013).

- [1] A. Shvartsbart, A. B. Smith III, *J. Am. Chem. Soc.* **2014**, *136*, 870.
 [2] A. Shvartsbart, A. B. Smith III, *J. Am. Chem. Soc.* **2015**, *137*, 3510.
 [3] K. Mori, *Tetrahedron: Asymmetry* **2005**, *16*, 685.
 [4] W. Uhlig, *Chem. Ber.* **1996**, *129*, 733.
 [5] I. Fleming, R. Henning, H. Plaut, *J. Chem. Soc., Chem. Commun.* **1984**, 29.

