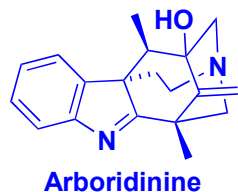


First Total synthesis of Caged Indole Alkaloid Arboridinine

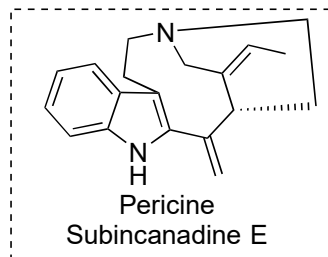


Kopsia Arborea

Kam et al. *Org. Lett.* **2015**, *17*, 3628



Proposed Pathway:



1) epoxide formation,
reagent?

2) H⁺
3) conjugate hydride
addition



X⁺ source

Mechanism?
**Name of this type
reaction**

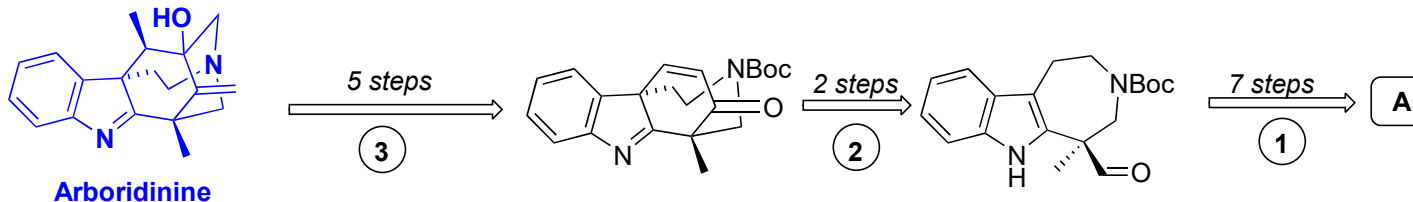
Arboridinine

Zhai et al. *Org.Lett.* **2014**, *16*, 3173-3175

For retro see: Bennasar et al. *Tetrahedron* **2015**, *71*, 2246-2254

Argade et al. *J. Org. Chem.* **2017**, *82*, 11126-1113

Retro synthetic approach:



S. A. Snyder et al. *J. Am. Chem. Soc.* **2018**, *140*, 919-925

