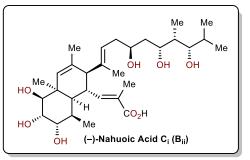


# (–)-Nahuoic Acid C<sub>i</sub> (B<sub>ii</sub>) (Smith, 2017)



# Background



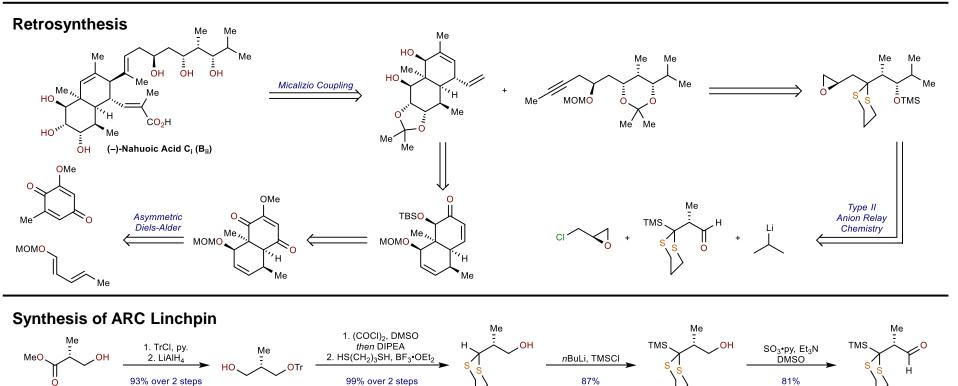
- Isolated in 2013 from marine sediment *Streptomyces* sp.
- 8 contiguous stereocentres
- Competitive inhibitor of SAM against histone lysine methyltransferase SETD8
  - Implicated in cell cycle regulation, angiogenesis, and DNA replication

Smith, A. B. J. Am. Chem. Soc. 2017, 139, 13668. https://doi.org/10.1021/jacs.7b08683.



Amos B. Smith III (1944-2025)

- Combined B.S.-M.S. Bucknell University, 1966
- PhD The Rockefeller University (Agosta), 1972
- Independent career The University of Pennsylvania 1972-2025
- Founding Editor-in-Chief of Organic Letters (1999-2019)
- Mentored >150 PhD students and >240 postdocs
- 85 total syntheses completed
  - Most procedures checked for Org. Synth.





Smith, A. B. Org. Lett. 2015, 17, 6242. https://doi.org/10.1021/acs.orglett.5b03235.

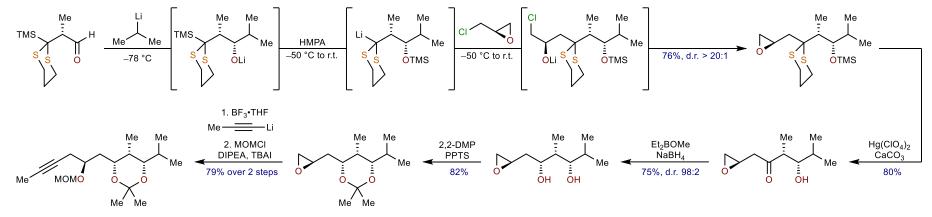
### **Eric Pettipiece**



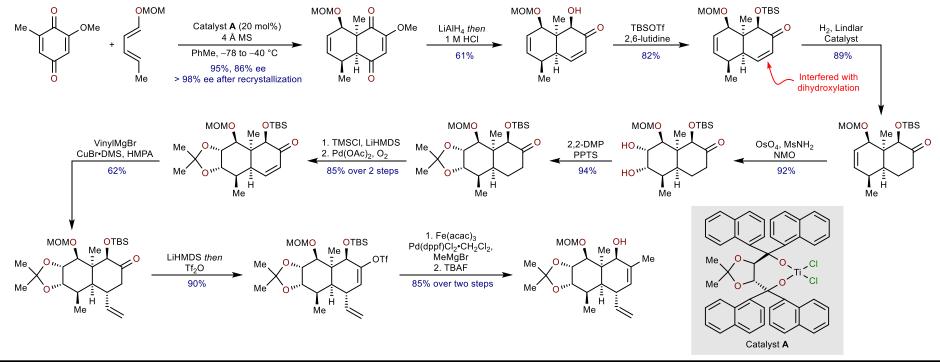
(–)-Nahuoic Acid C<sub>i</sub> (B<sub>ii</sub>) (Smith, 2017)



### **Sidechain Synthesis**



### Making the cis-Decalin







# **Fragment Coupling**

