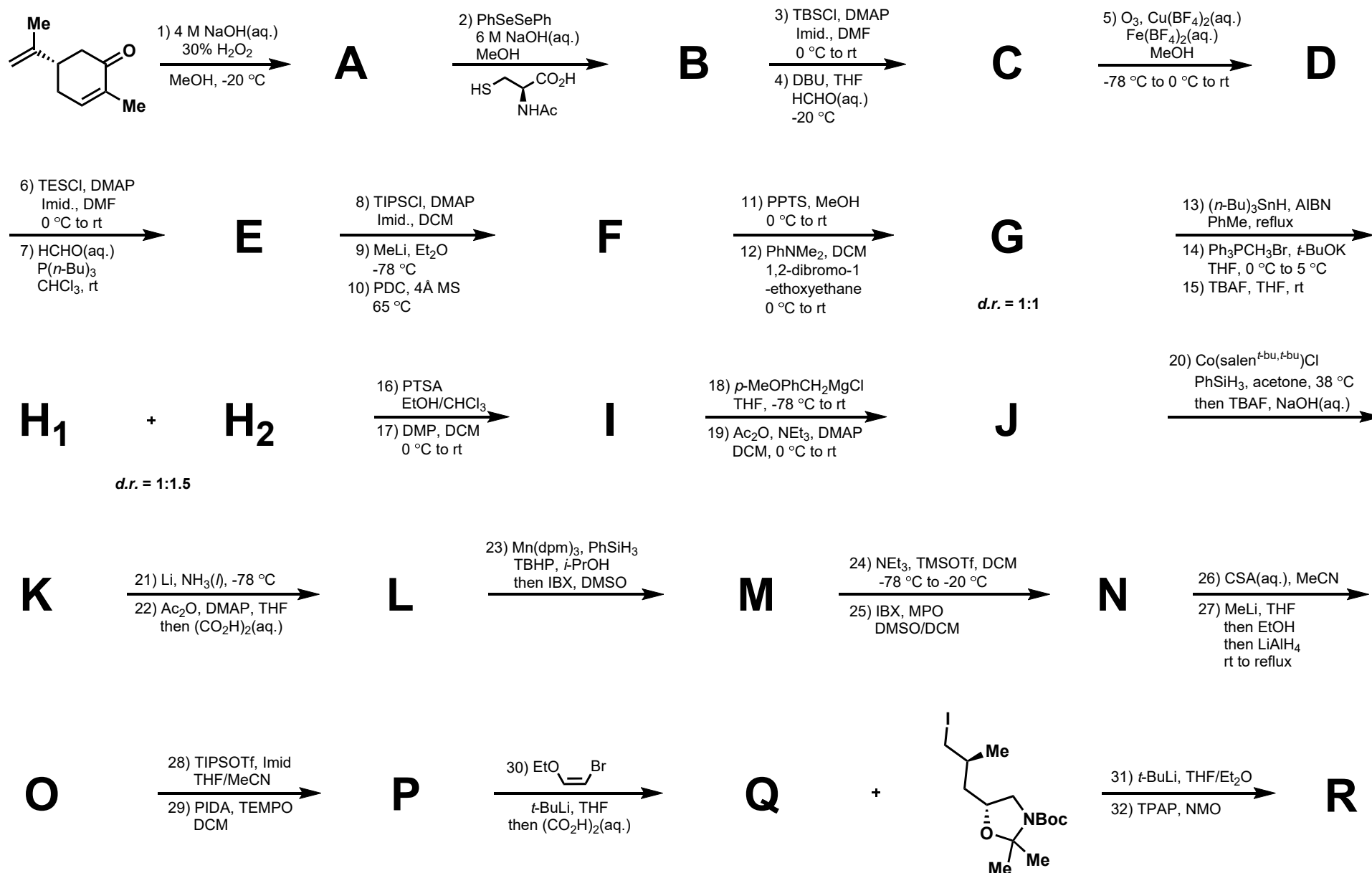



Asymmetric Total Synthesis of Norzoanthamine
 Zhengyuan Xin, Hui Wang, Haibing He, Xiaoli Zhao, and Shuanhu Gao*
 Angew. Chem. Int. Ed. **2021**, 60, 12807–12812

Haixiao-28.02.2024




33) Pd(PPh₃)₄
(*n*-Bu)₃SnH
THF, rt



S


34) TBAF, THF
55 °C



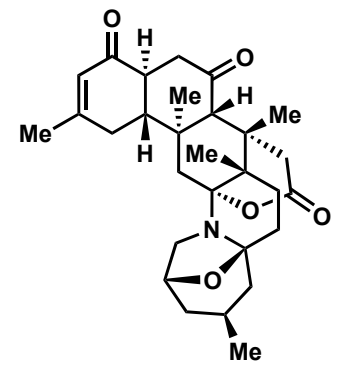
35) PCC, NaOAc
4Å MS, DCM

T

36) 2-methyl-2-butene
NaClO₂, NaH₂PO₄
t-BuOH/THF/H₂O



37) HOAc/H₂O, 100 °C
then Na₂SO₄



Norzoanthamine