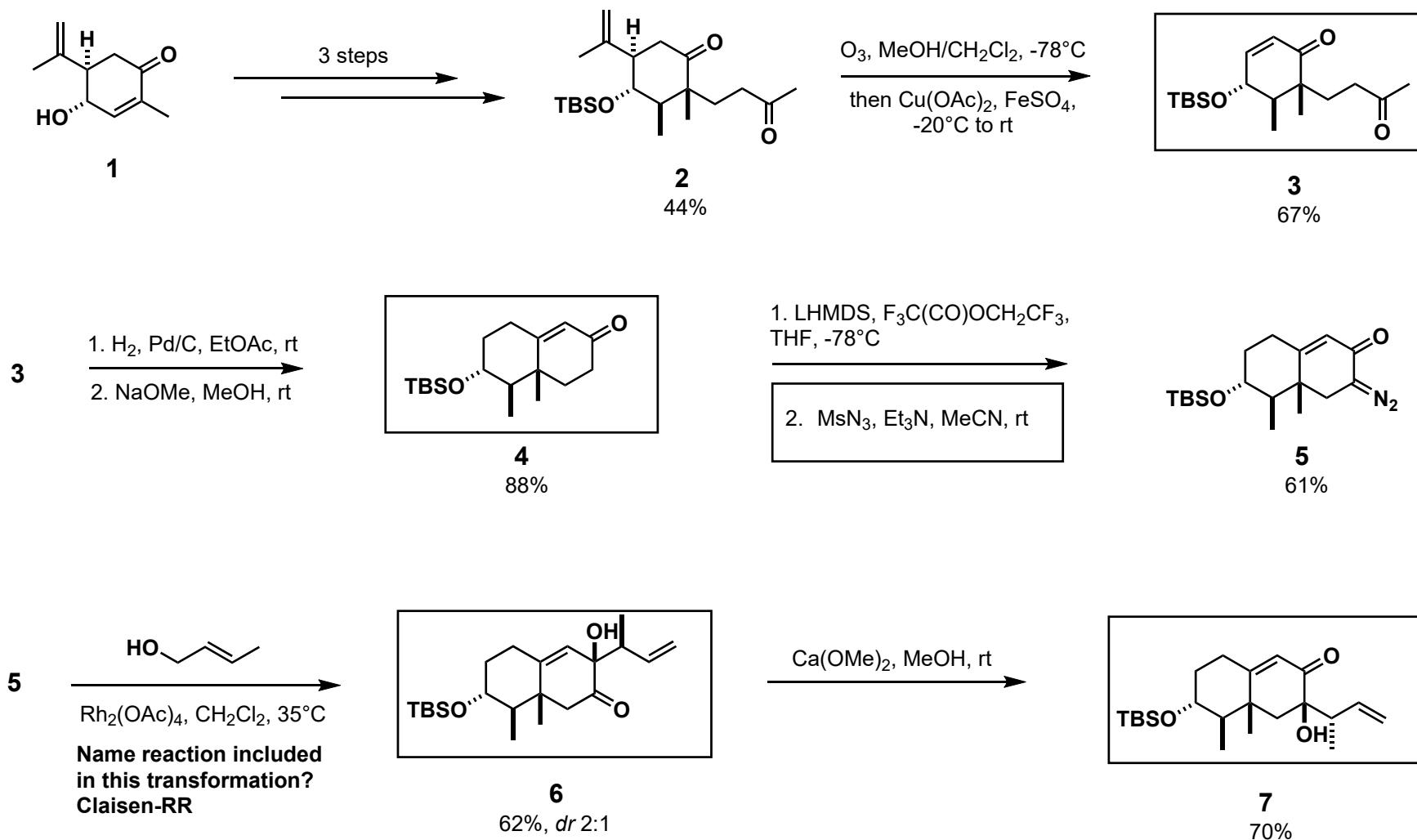


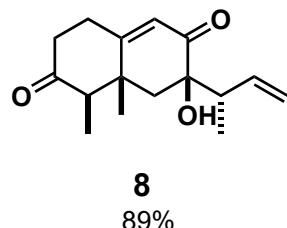
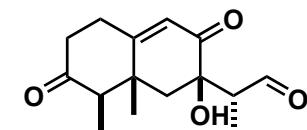
The Furan Shuffling Hypothesis: A Biogenetic Proposal for Eremophilane Sesquiterpenoids

Angew. Chem. Int. Ed. **2019**, *58*, 7004–7007.
J. Am. Chem. Soc. **2017**, *139*, 16096–16099. (For first 8 steps)



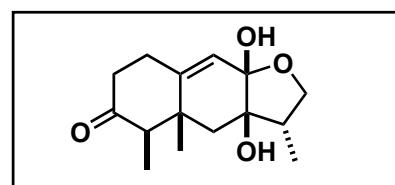
7

1. HF, MeCN/THF, rt

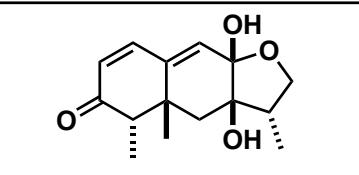
2. DMP, NaHCO₃, CH₂Cl₂, 0°CO₃, pyridine,
CH₂Cl₂/MeOH, -78°Cthen PPh₃, rt**Role of pyridine in
ozonolysis?****Fragmentation of carbonyl oxides**
(*Org. Lett.* 2012, 14, 2242.)

76%

9

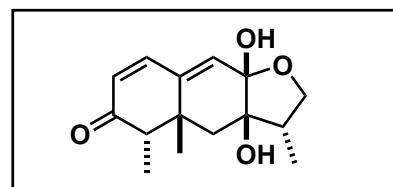
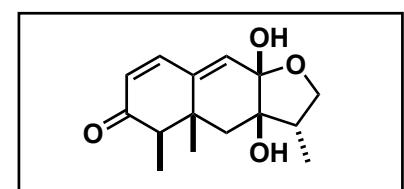
NaB(OAc)₃H, CH₂Cl₂, rtTBD, O₂, THF, rt**Potential alternative
conditions for this
transformation?**- i) LHMDS, PhSeCl;
ii) NaIO₄-i) AcOH, Br₂; ii) pyridine-i) Et₃N, TMSCl;
ii) Pd(OAc)₂, *p*-BQ

...



10%

+

Ca(OMe)₂, MeOH, 60°C**The Furan Shuffling Reaction**