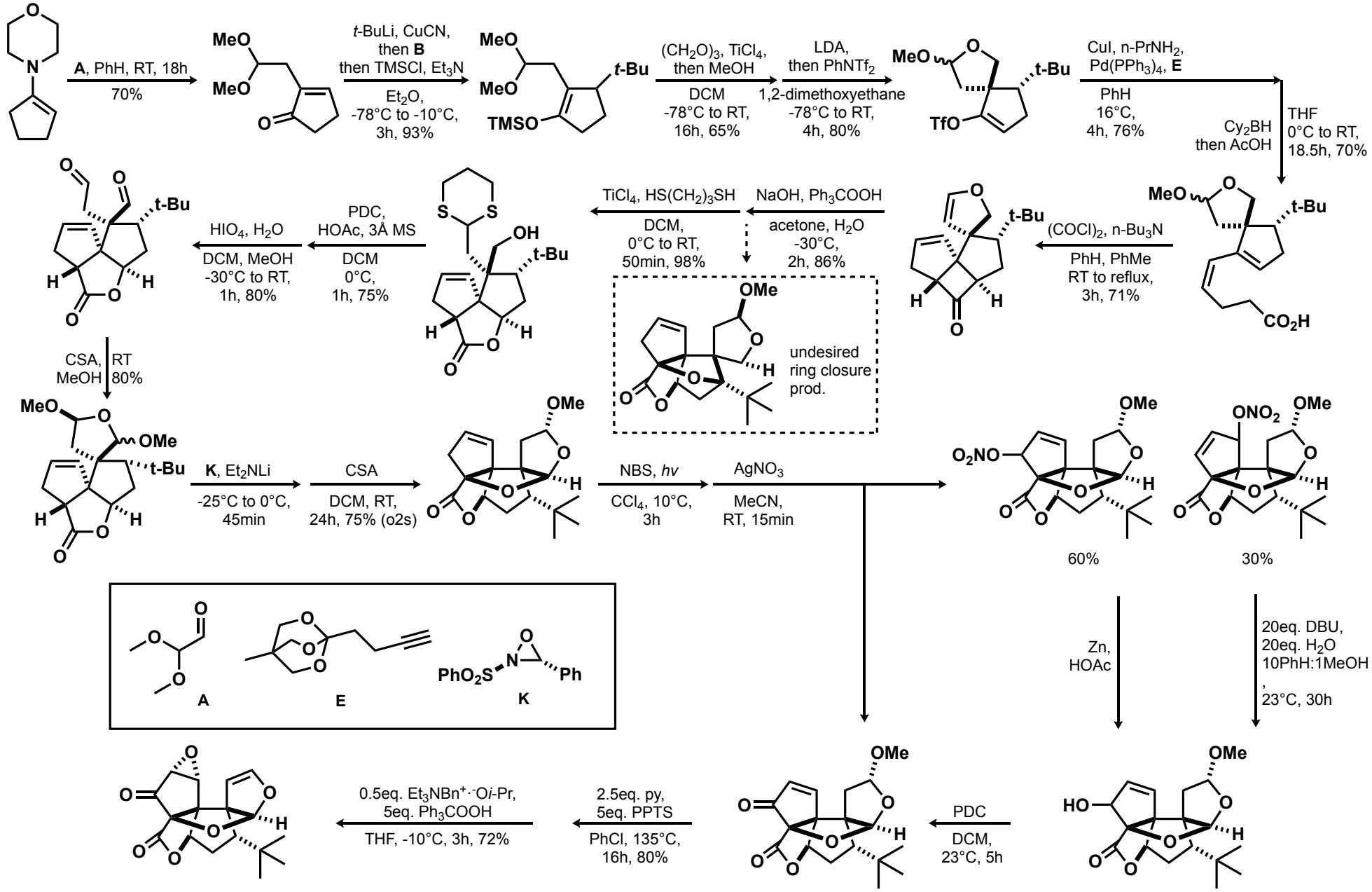
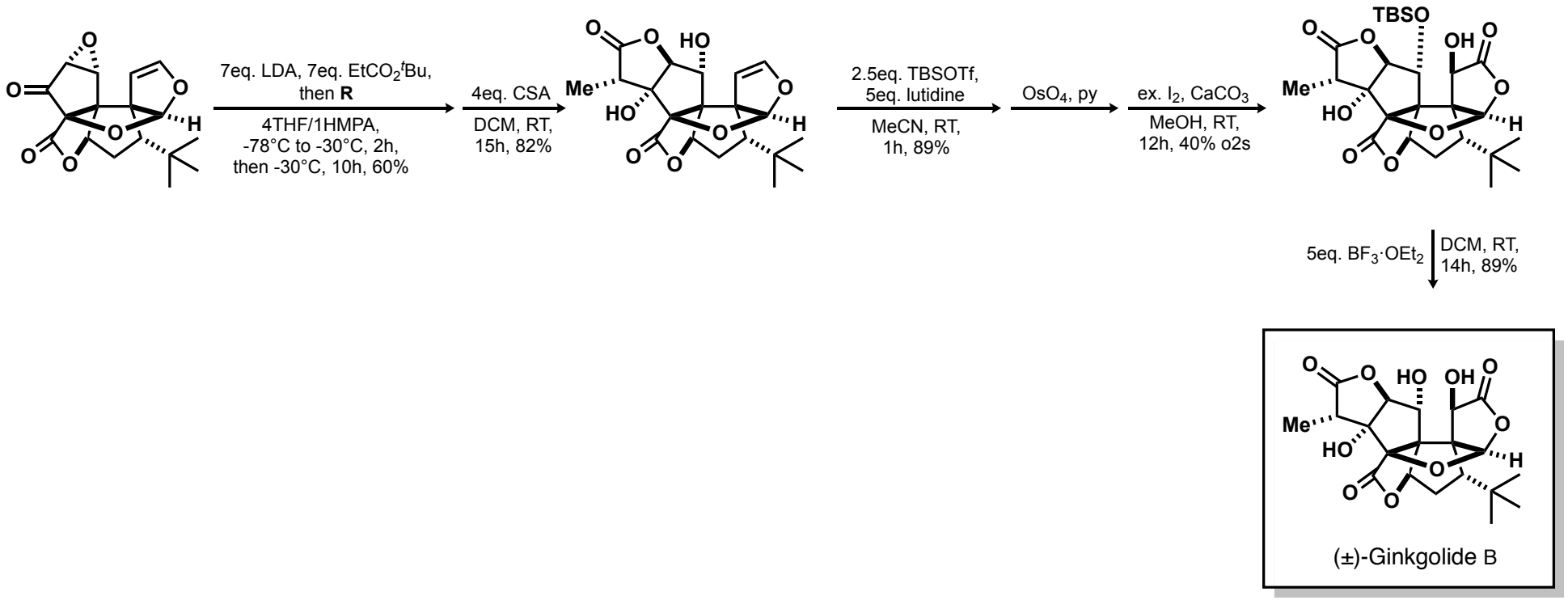
Total Synthesis of (±)-Ginkgolide B

J. Am. Chem. Soc. 1988, 110, 649-651 E. J. Corey,* Myung-chol Kang, Manoj C. Desai, Arun K. Ghosh, and Ioannis N. Houpis




7eq. LDA, 7eq. EtCO2tBu,
then R
4THF/1HMPA,
-78°C to -30°C, 2h,
then -30°C, 10h, 60%
4eq. CSA
DCM, RT,
15h, 82%
2.5eq. TBSOTf,
5eq. lutidine
MeCN, RT,
1h, 89%
OsO4, py
ex. I2, CaCO3
MeOH, RT,
12h, 40% o2s
5eq. BF3·OEt2
DCM, RT,
14h, 89%
(±)-Ginkgolide B