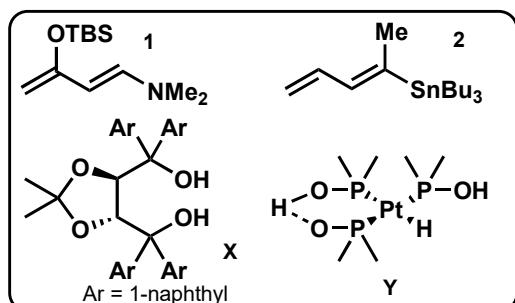
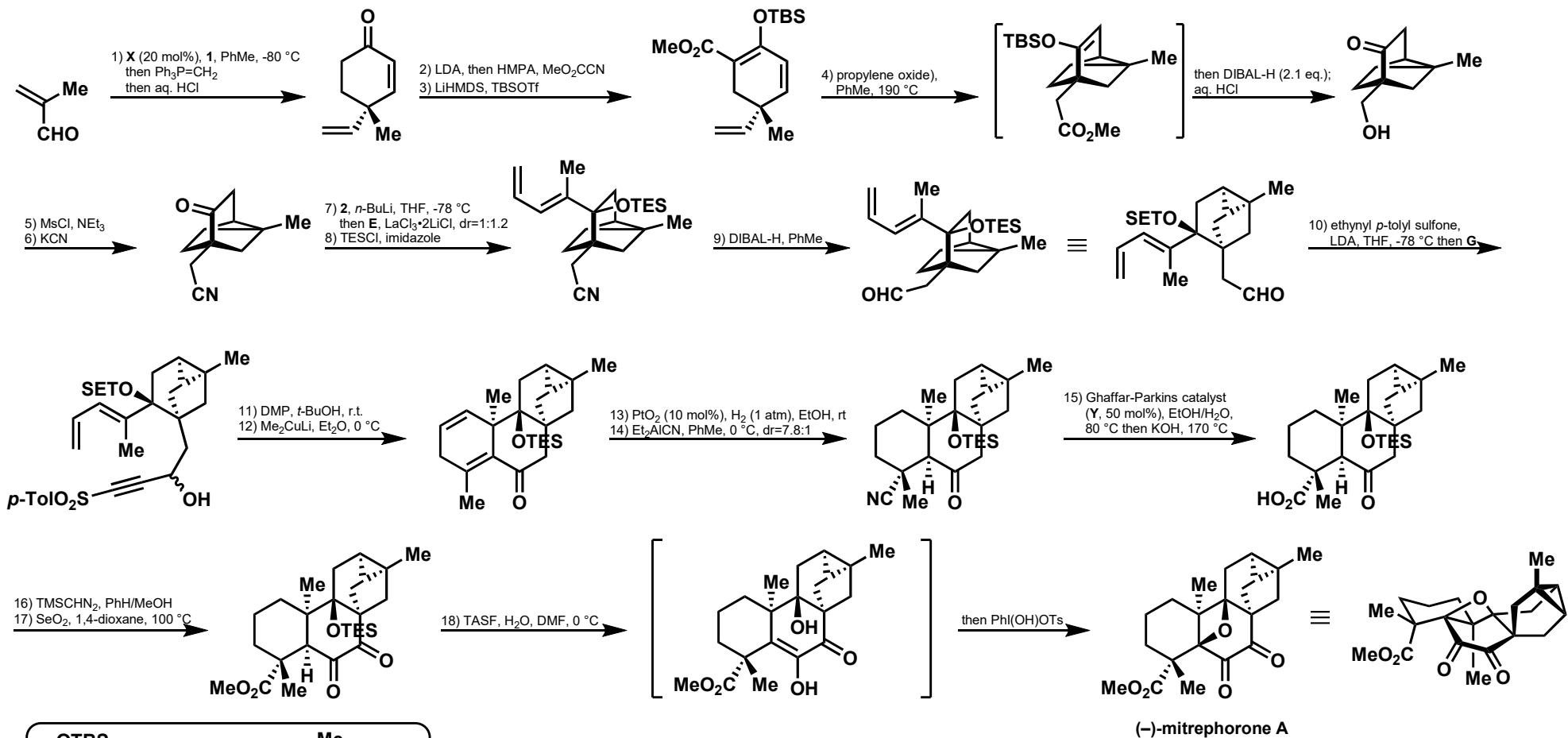


Total Synthesis of (-)-Mitrephorone A

12.12.18

E. M. Carreira et al., *J. Am. Chem. Soc.* **2018**, *140*, 16704–16710.



TADDOL-cat. Diels-Alder:

JACS **1999**, *121*, 9562

Proc. Natl. Acad. Sci. U.S.A. **2004**, *101*, 5846

ACIE **2006**, *45*, 497

Tetrahedron Lett. **1981**, *22*, 3347

JACS **2002**, *124*, 11093

Tetrahedron Lett. **1995**, *36*, 8657

J. Org. Chem. **2004**, *69*, 2327

JACS **1972**, *94*, 4635

ACIE **2017**, *56*, 2599

La(III)-enabled Grignard addition:
Sulfonyl yrones for C.A.:

Hydration of (hindered) nitriles:

Nagala's reagent:

Umpoled enolates:

(-) mitrephorone A