AcOMe

N₂

[Ru], Et₃SiH

TES−Ru−H

NIS

CrCl₂, NiCl₂ → $CrCl_2$, $NiCl_2$
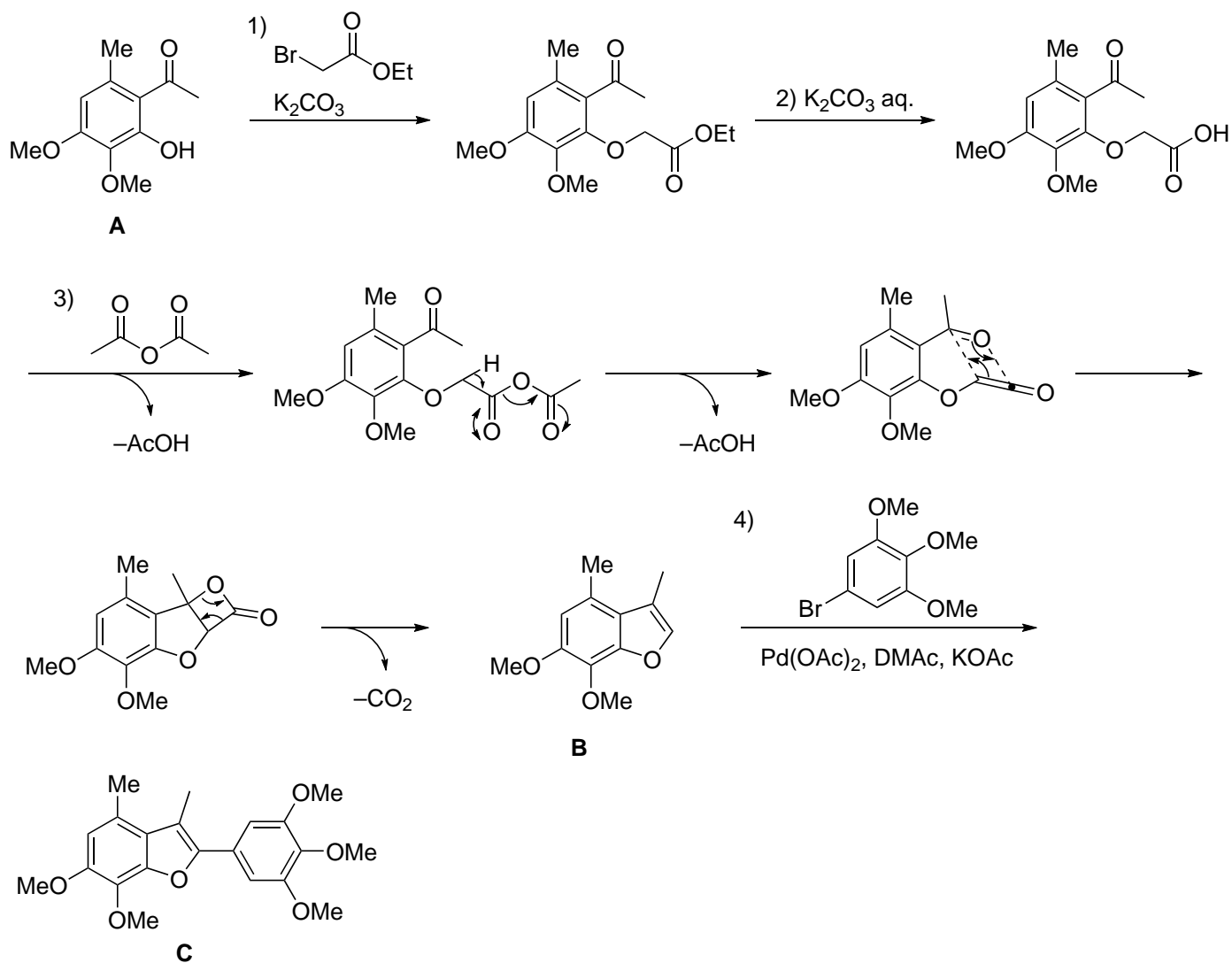
Nozaki-Hiyama-Kishi Reaction

HF·pyridine

(+)-Amphirionin-4

1st generation route

2nd generation route

A

− Cy—NH—C(O)—NH—Cy

− (DMAP)

TiCl₃ + Zn → Ti (0)

McMurry Coupling

C

⊕K ⊖O—S... : B

acetone

KHSO₄

dimethyldioxirane (DMDO)

E

(DMDO)

− acetone

intramolecular [4+2]-cycloaddition

F