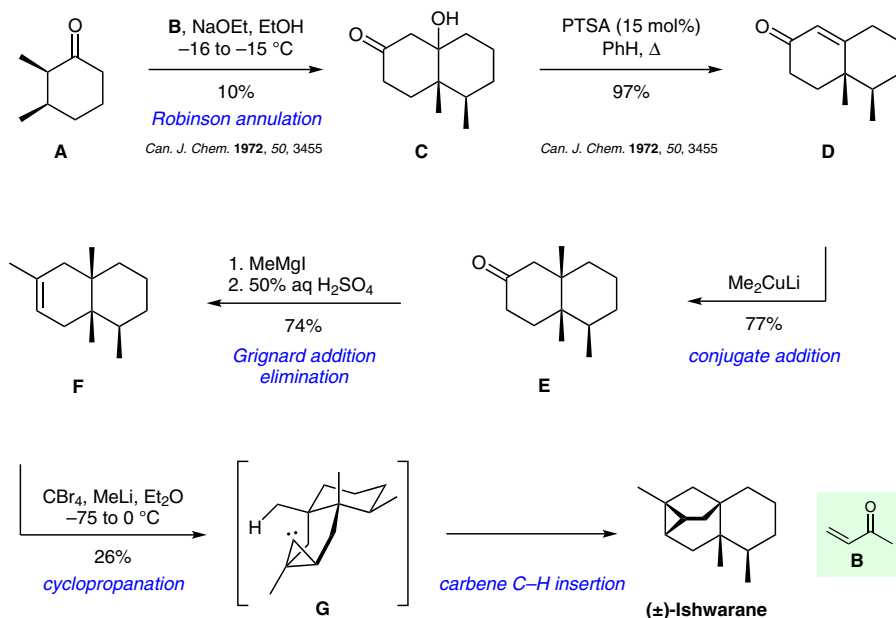


Total Synthesis of (±)-Ishwarane



Significance: Ishwarane is a sesquiterpene featuring a carbon skeleton with an intriguing tricyclo-[3.2.1.0^{2,7}]octane core. After the first total synthesis of ishwarane reported by Kelly and co-workers in 1970/1971 (*J. Chem. Soc. D* **1970**, 1102; *J. Chem. Soc. D* **1971**, 479), Cory and co-workers present a highly efficient six-step sequence to the natural product exploiting carbon atom insertion.

Comment: Previously reported octalone **D** is rapidly elaborated into *cis*-decalene **F** through conjugate addition, Grignard addition, and dehydration. A cyclopropanation and C–H insertion cascade via putative carbene intermediate **G** yields (±)-ishwarane.

(±)-ishwarane
 Robinson annulation
 conjugate addition
 Grignard addition
 cyclopropanation
 carbene C–H insertion