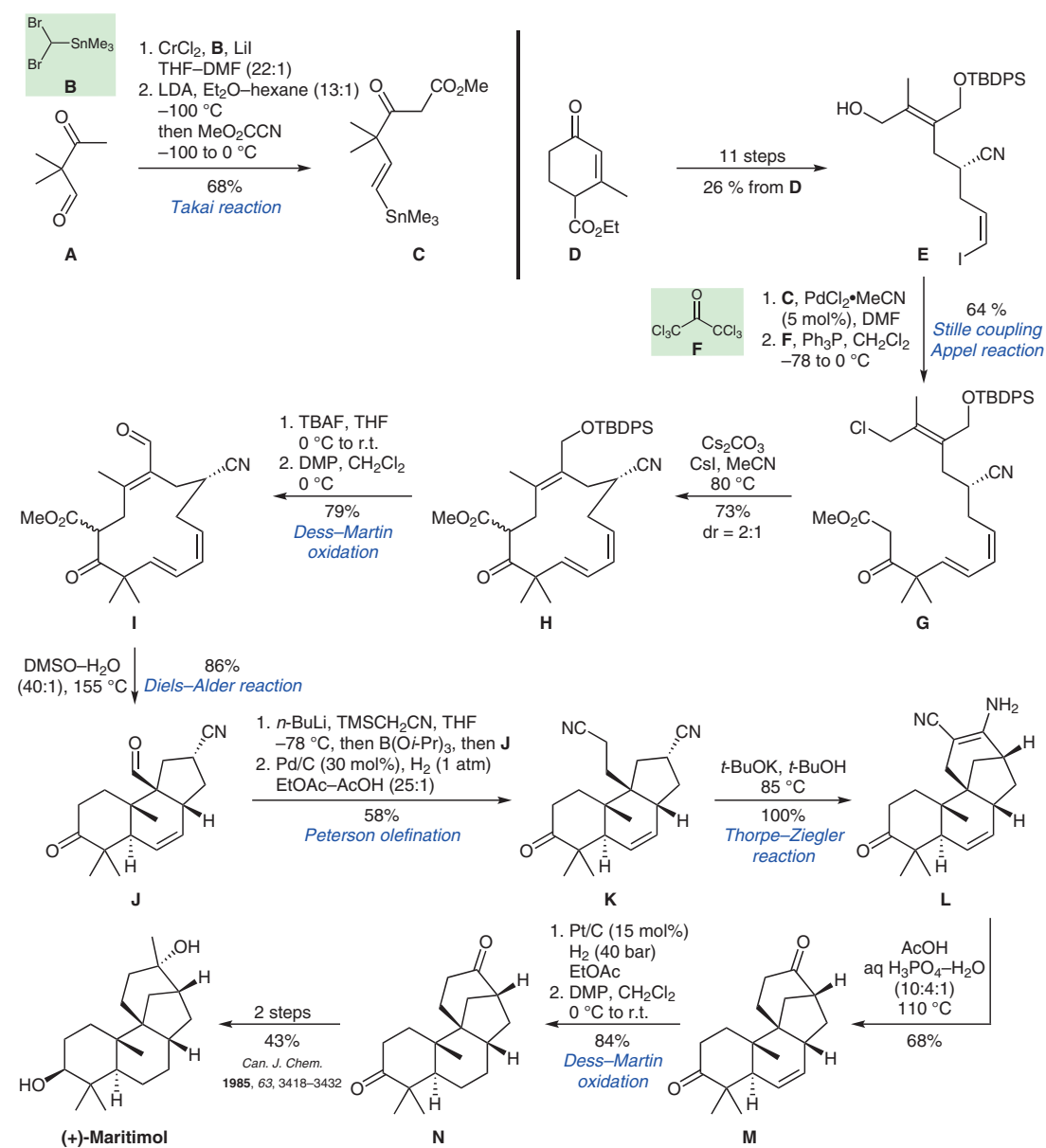


Total Synthesis of (+)-Maritamol



Significance: In 2000, Deslongchamp and co-workers reported the first asymmetric total synthesis of the diterpenoid (+)-maritamol. Key to their approach is a transannular Diels–Alder (TADA) reaction.

Comment: Stille coupling of vinyl iodide **E** and stannane **C**, followed by Appel reaction gave access to acyclic tetraene **G**. Base-mediated macrocyclization, deprotection and oxidation furnished aldehyde **I**, which undergoes the desired TADA reaction and decarboxylation upon heating.