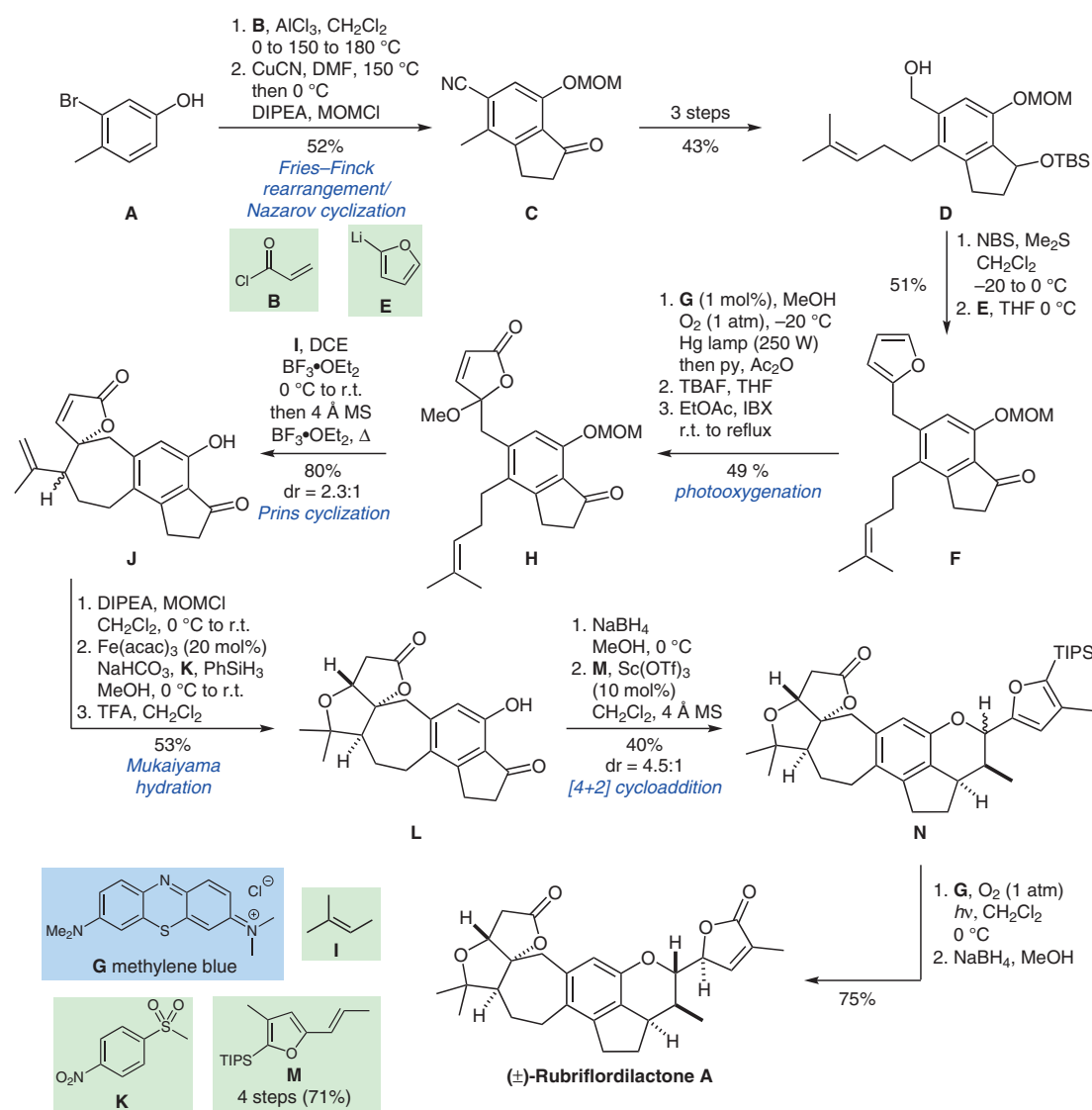


Total Synthesis of (±)-Rubriflorldilactone A



Significance: Chen and co-workers present the total synthesis of (±)-rubriflorldilactone A, a highly oxygenated polycyclic triterpenoid isolated from *Schisandra* plants, which exhibits anti-HIV activity. The natural product, with its central polysubstituted arene motif, is accessed via a rare *ortho*-quinone methide type [4+2]-cycloaddition.

Comment: Commercially available phenol **A** was elaborated into key butenolide **H**. Treatment of the latter with BF₃·OEt₂ initiated an intramolecular Prins cyclization, affording a seven-membered ring in **J**. Mukaiyama hydration triggered an *oxa*-Michael reaction, affording γ -lactone **L** that, after reduction, was reacted with furan **M** in a [4+2]-cycloaddition. Subsequently, photooxygenation and reduction furnished (±)-rubriflorldilactone A.