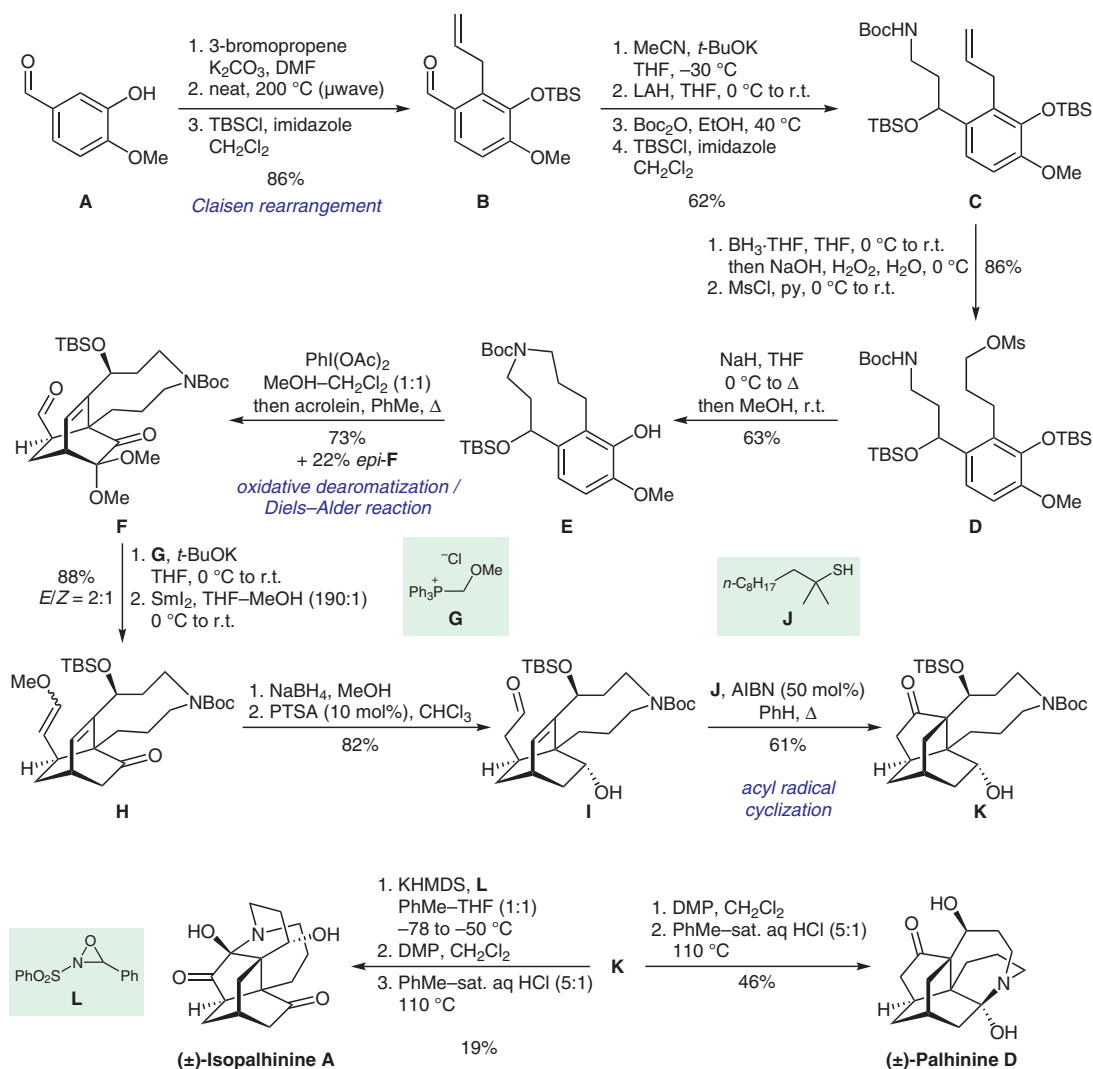


## Synthesis of Isopalhinine A and Palhinine D



**Significance:** Isopalhinine A and palhinine D are *Lycopodium* alkaloids with highly bridged carbon frameworks that incorporate a 5/6/6 tricycle along with a hemiaminal moiety. Hsieh and co-workers report concise syntheses of both alkaloids, which rely on an oxidative dearomatization/[4+2] cycloaddition strategy to construct the bicyclo[2.2.2]-octane core.

**Comment:** 9-*exo*-Tet cyclization of **D** under basic conditions furnished the azonane ring in **E**. Subsequent oxidation with hypervalent iodine gave a masked *ortho*-benzoquinone intermediate that underwent Diels–Alder reaction with acrolein to afford **F**. Employing Tomioka's method, acyl radical cyclization of aldehyde **I** furnished the characteristic isotwistane core in **K**.