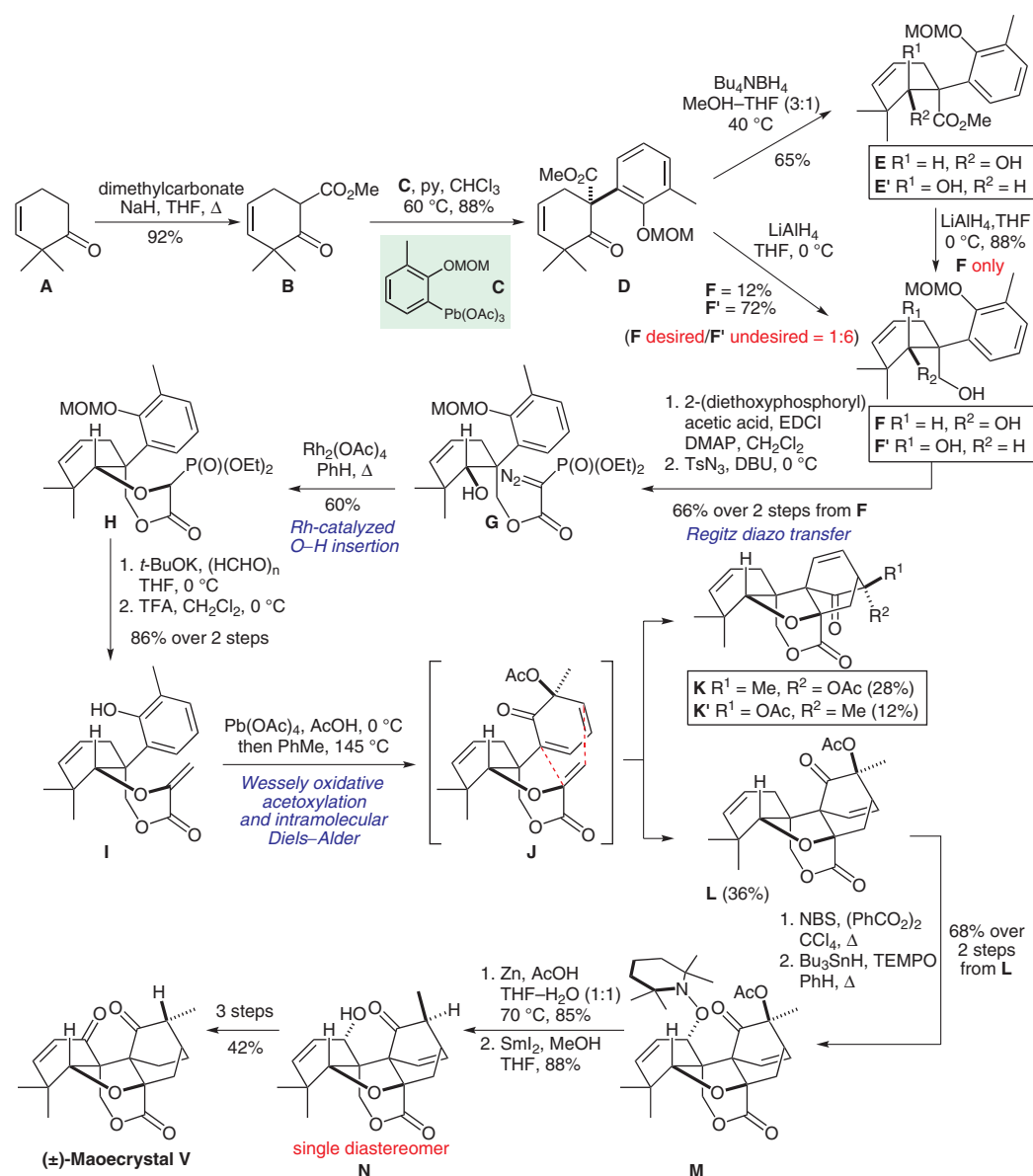


Total Synthesis of (±)-Maoecrystal V



Significance: Maoecrystal V was isolated in 2004 by Sun from the Chinese herb *Isodon eriocalyx*. Both the congested framework and biological inhibition against HeLa cells ($\text{IC}_{50} = 60 \text{ nm}$) has made maoecrystal V a worthy target for the synthetic community.

SYNFACTS Contributors: Steven V. Ley, James R. Frost
Synfacts 2011, 3, 0239-0239 Published online: 16.02.2011
DOI: 10.1055/s-0030-1259410; **Reg-No.:** N00411SF

Comment: Key steps involve the formation of the seven-membered ring via a rhodium-catalyzed O-H insertion to give **H**. The pentacyclic system was completed by use of a Wessely oxidative acetoxylation followed by an intramolecular Diels-Alder reaction in which **L** was the major product.