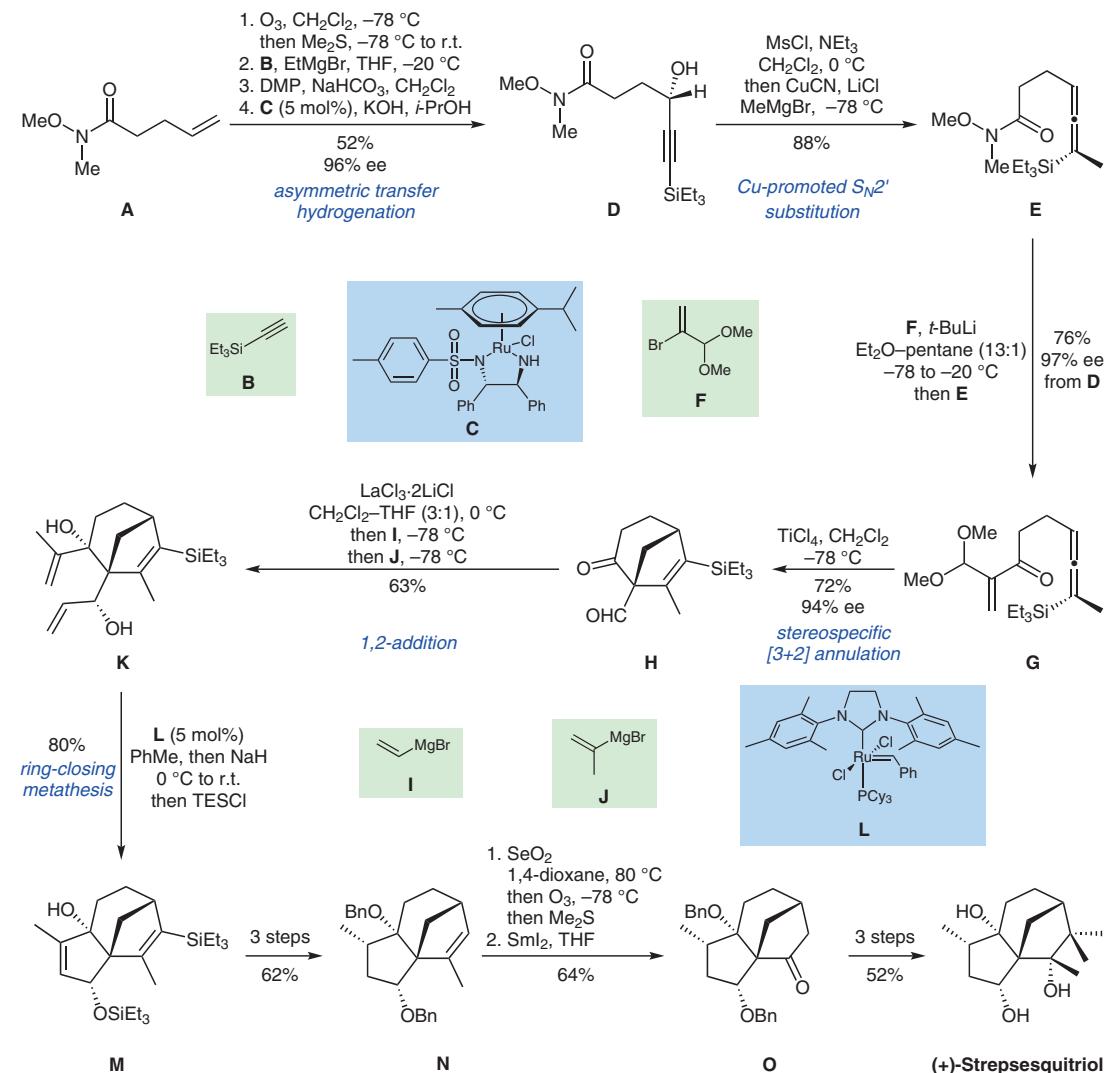


Total Synthesis of (+)-Strepesquitiol



Significance: Han, Li and co-workers present the first asymmetric total synthesis of (+)-strepesquitiol. To access the bridged bicyclo[3.2.1]octane ring system, the authors developed a type II intramolecular [3+2] annulation of allenylsilane.

Comment: The bicyclo[3.2.1]octane **H** was accessed through stereospecific [3+2] annulation of allenylsilane **G**. Double Grignard addition followed by ring-closing metathesis afforded the fused system **M**. Functional group adjustments and global deprotection completed the synthesis of (+)-strepesquitiol.

Category
Synthesis of Natural Products
Key words
(+)-strepesquitiol
asymmetric hydrogenation
copper-promoted S_N2' substitution
stereospecific [3+2] annulation
ring-closing metathesis

