

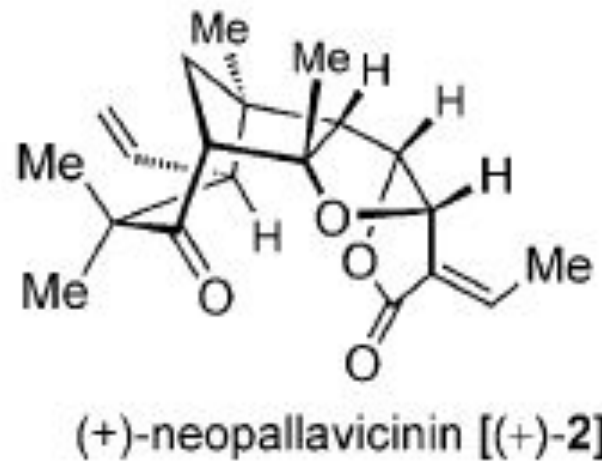
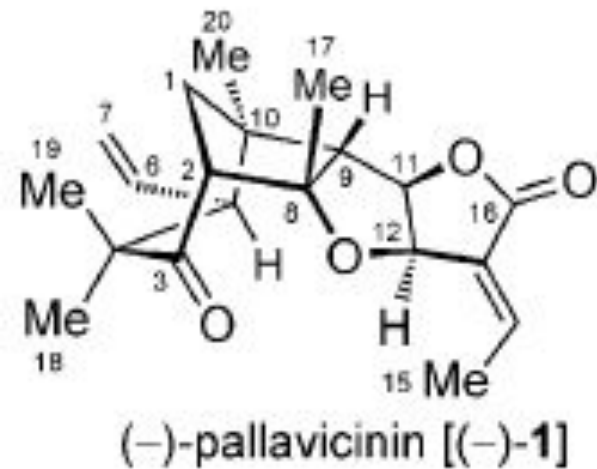
PROTECTING-GROUP-FREE ENANTIOSELECTIVE SYNTHESIS OF (-)-PALLAVICININ AND (+)-NEOPALLAVICININ

Bin Huang, Lei Guo, and Yanxing Jia

Angew. Chem. Int. Ed. 2015, 54, 1
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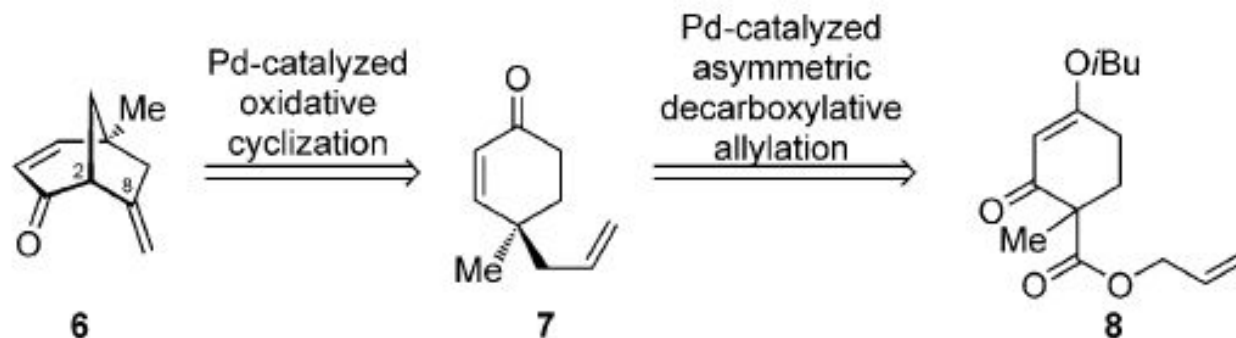
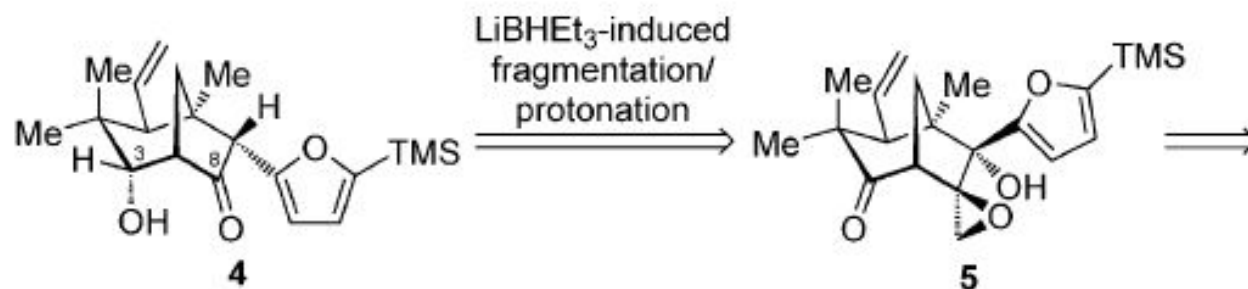
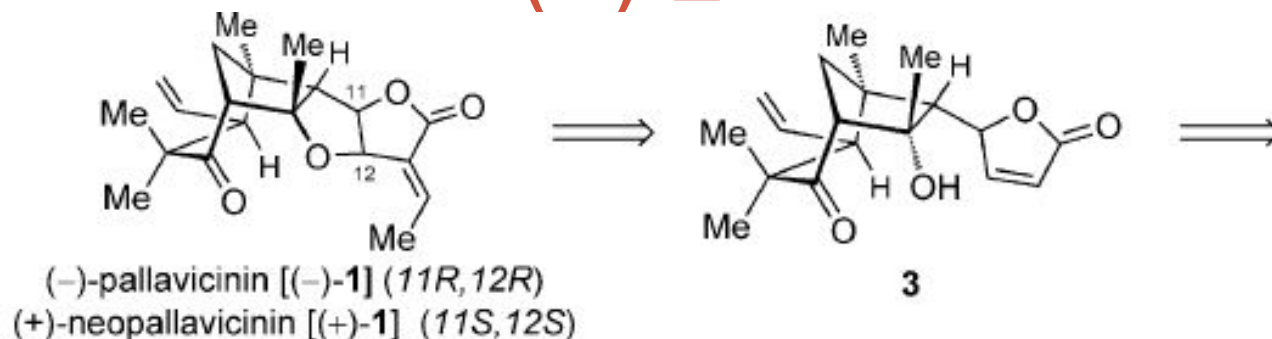
DOI:
10.1002/anie.201506575

Target substances

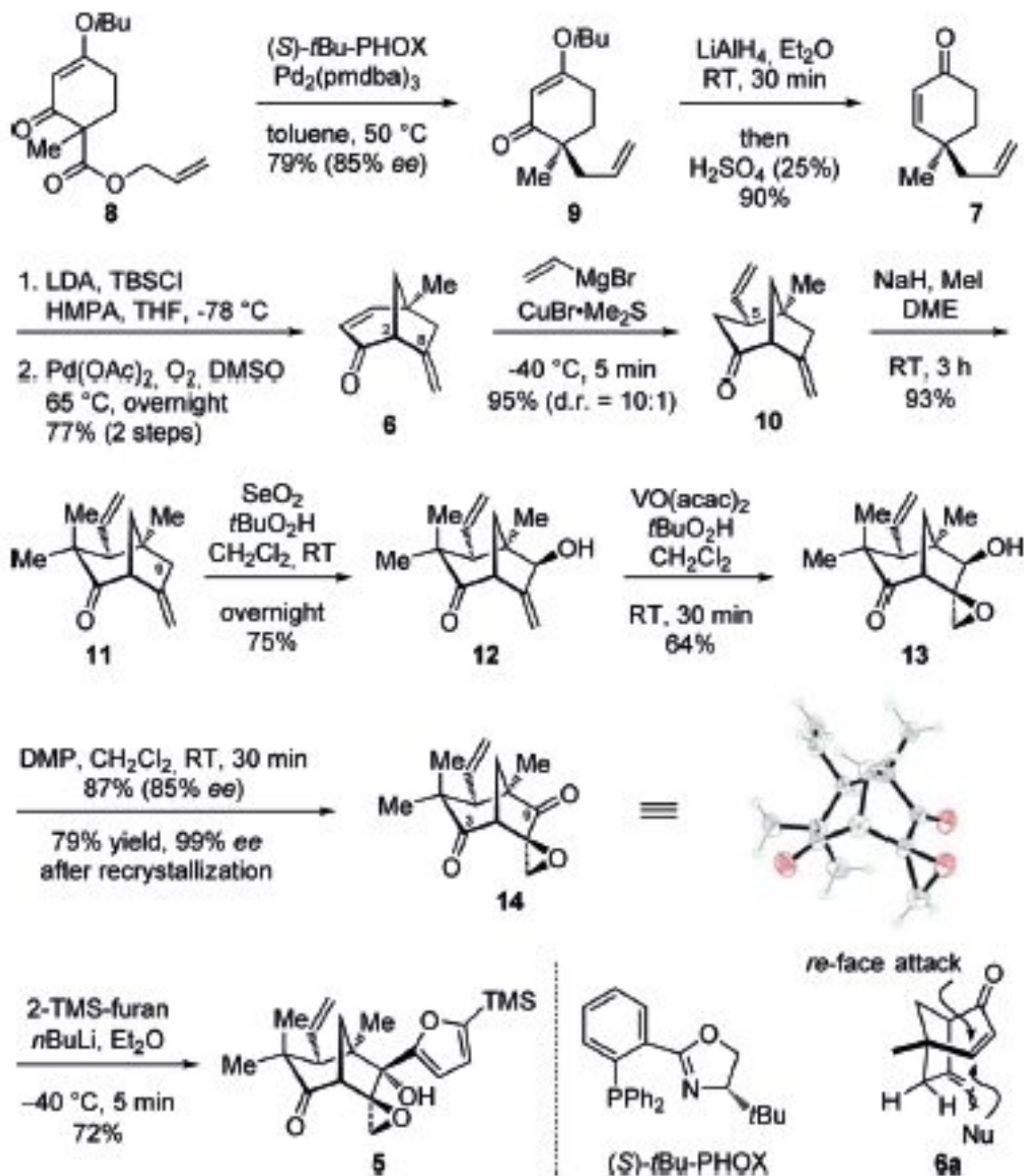


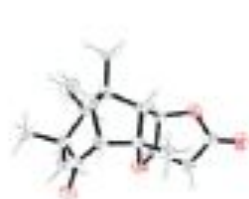
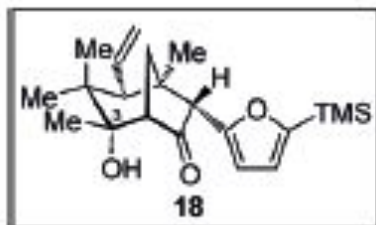
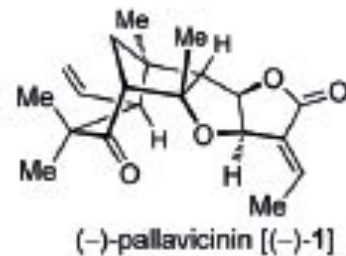
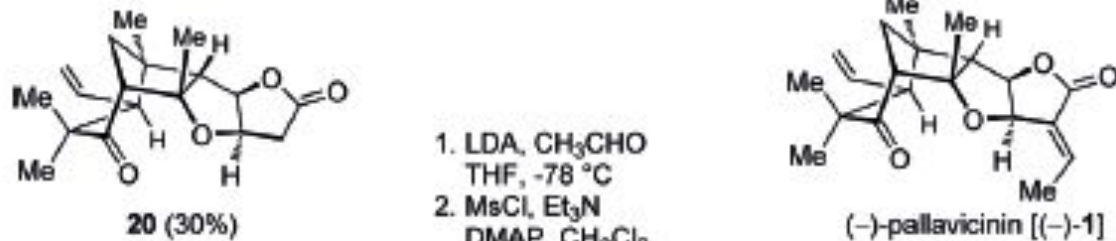
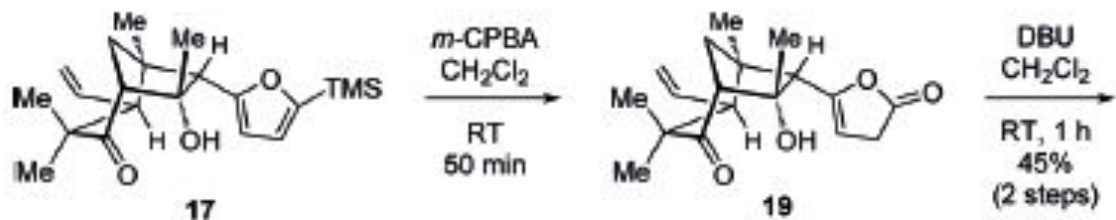
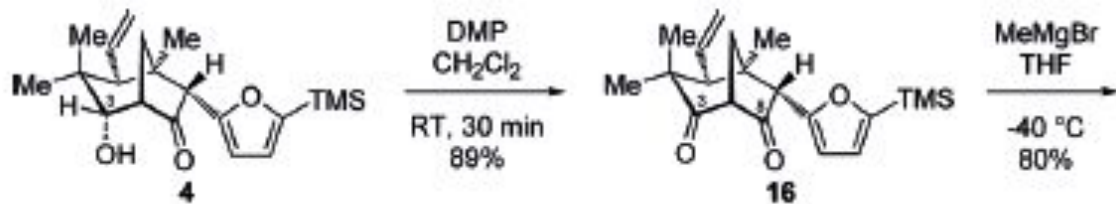
- Novel [6-5-5-5] tetracyclic skeleton
- Bicyclo[3.2.1] moiety
- 7 contiguous stereocenters
- 1 chiral all-carbon quaternary center

Retrosynthetic analysis of (-)-1 and (+)-2



Synthesis of 5



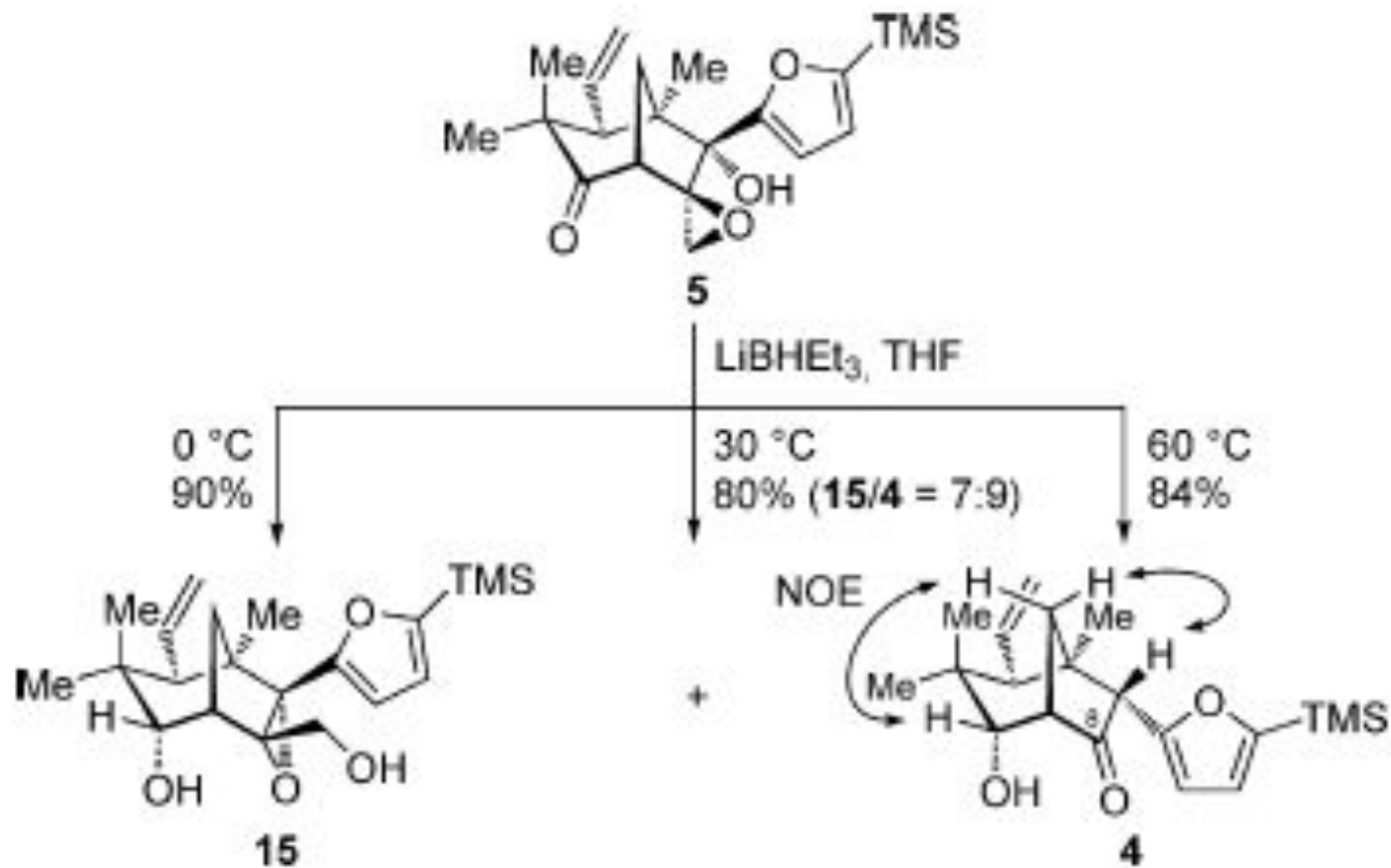


X-ray of 20

absolute configuration of (-)-1

Completing the total synthesis of (-)-1 and (+)-2

LiBH₄-induced fragmentation of 5



Proposed mechanism for reaction of 5 with LiBHEt₃

