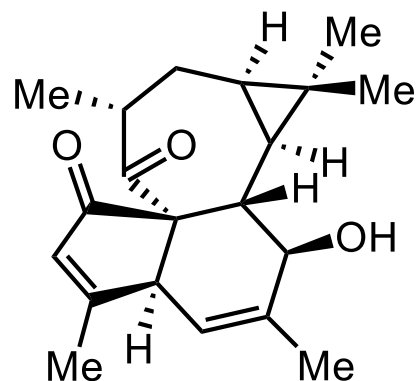


Ten-Step Asymmetric Total Synthesis of (+)-Pepluanol A

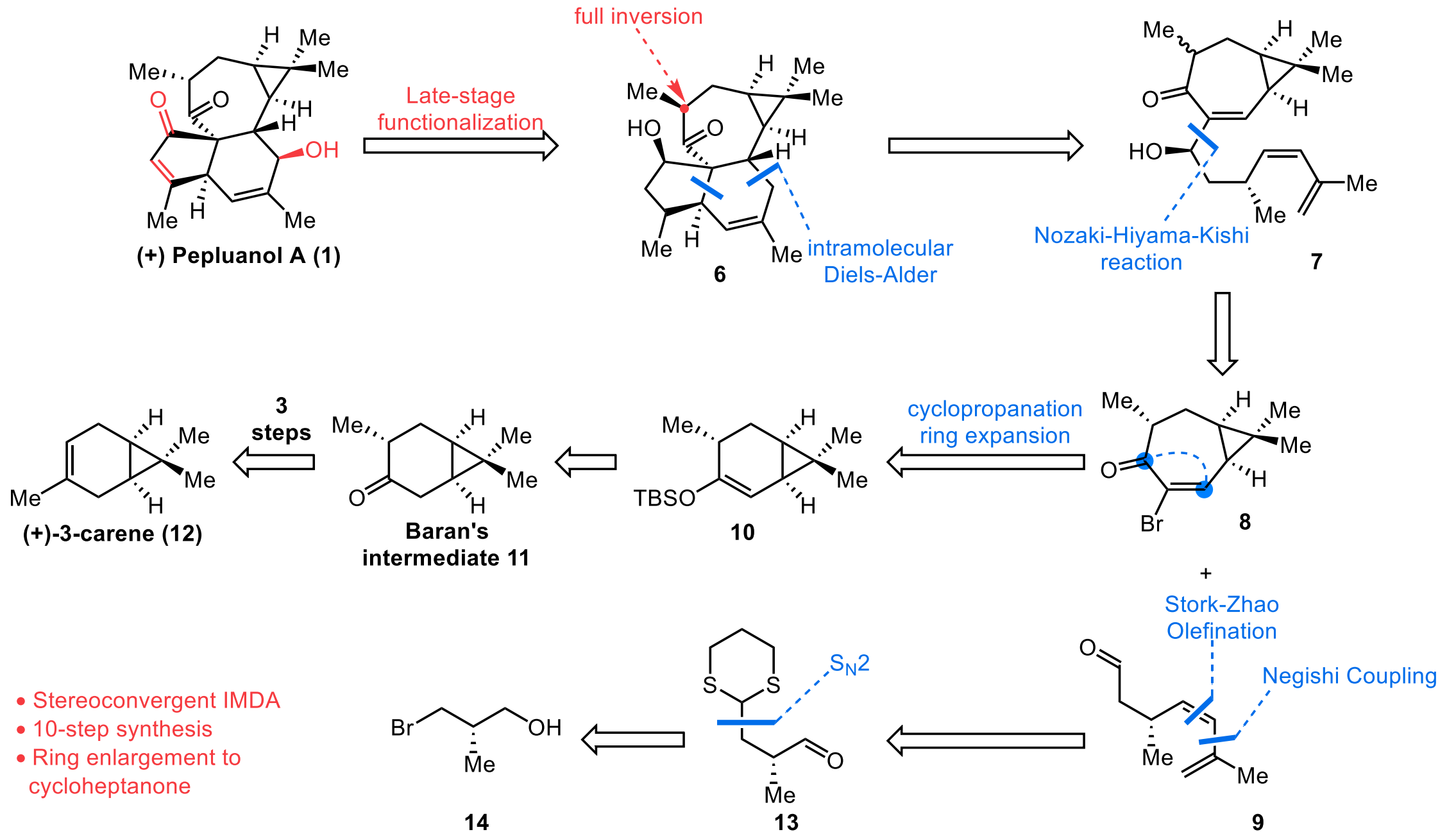


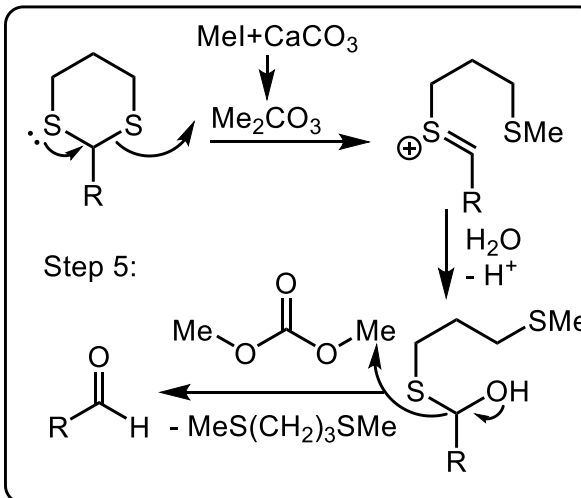
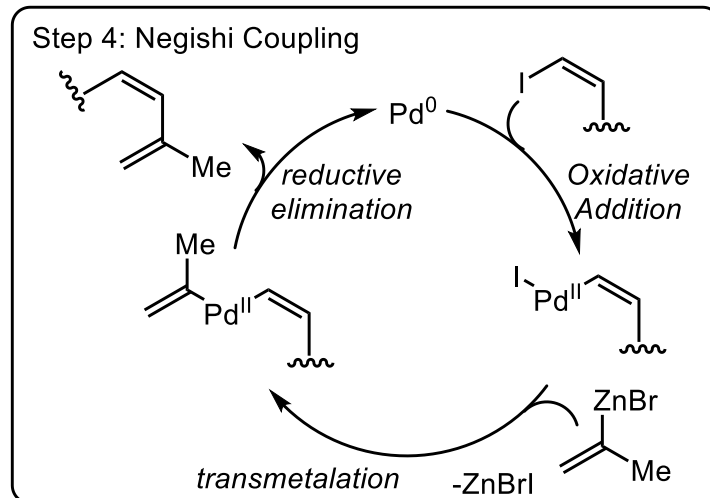
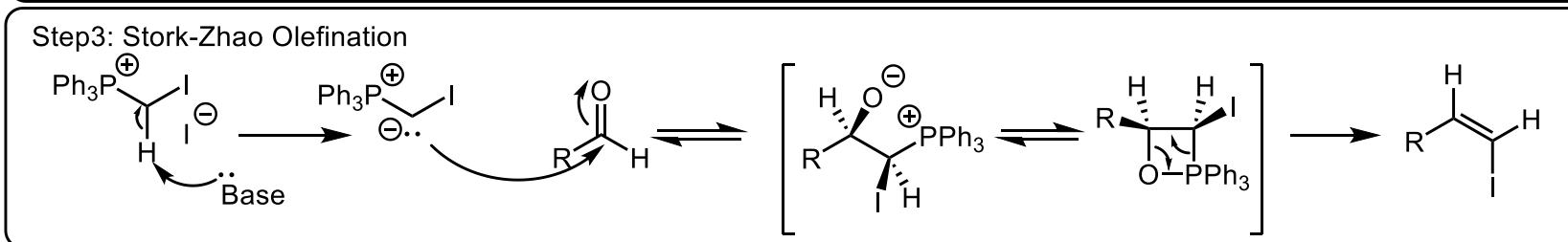
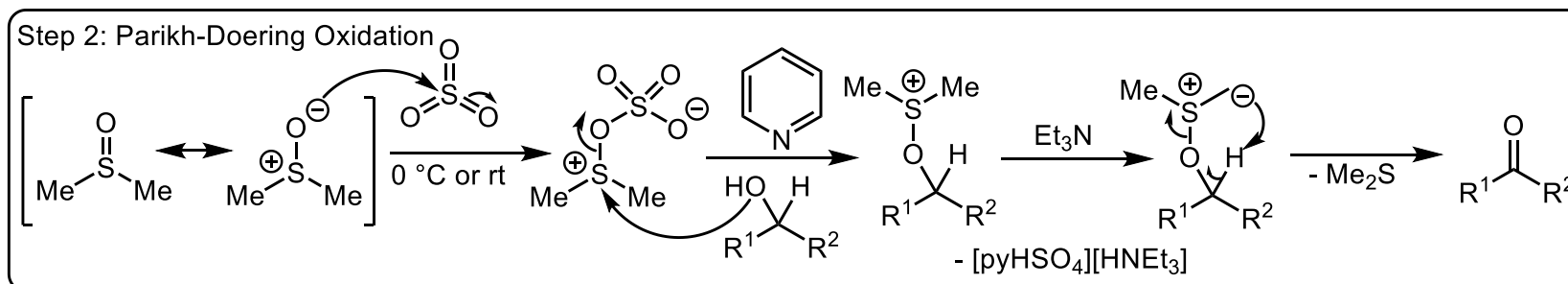
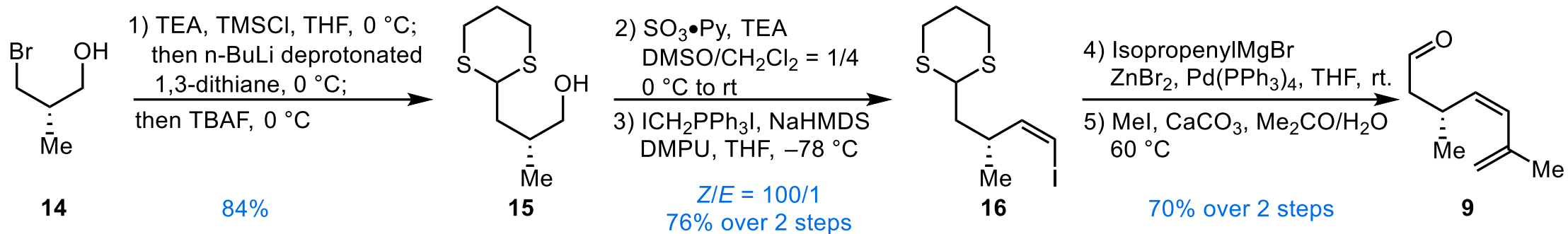
Pepluanol A

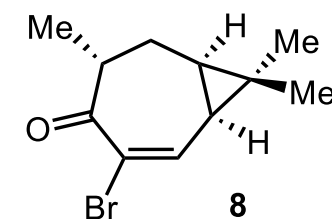
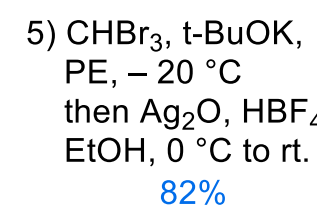
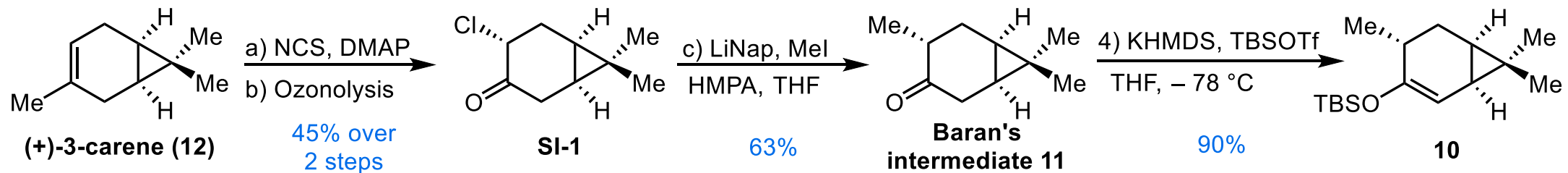
- Isolated from *E. peplus* by Qiu and co-workers in 2016.
- *Euphorbia diterpenes* exhibit cytotoxic, antiviral, multidrug-resistance-reversing (MDR) and antitumor properties.
- 3,5,6,7-tetracyclic angular carbon framework and 7 contiguous stereocenters.
- A 22-step synthesis of racemic Pepluanol A accomplished by Ding in 2017.

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Total Synthesis Presentation
12/1/2021

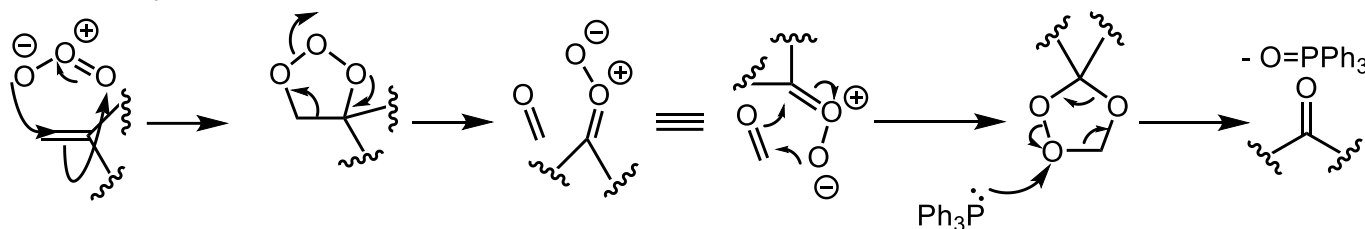
Retrosynthetic Analysis of (+)-Pepluanol A



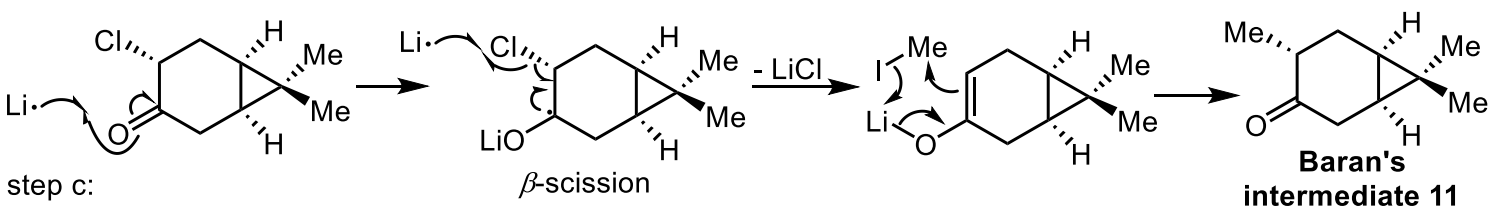




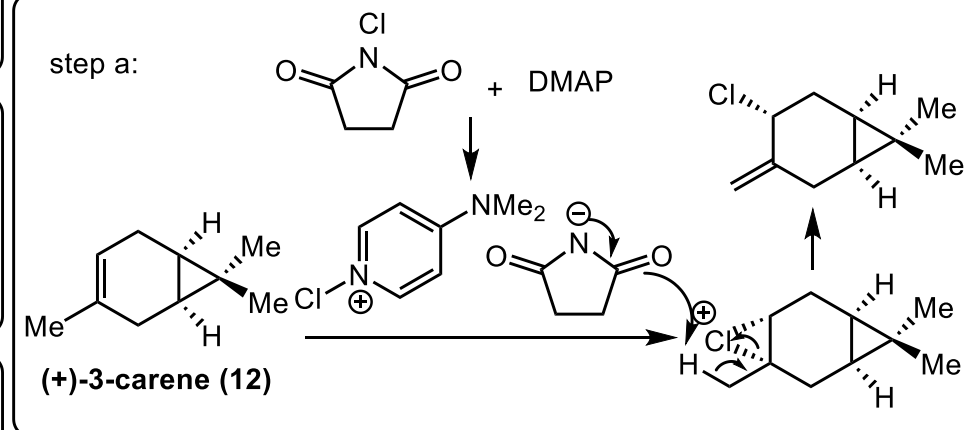
step b: Ozonolysis



step c:



step a:



step 5:

