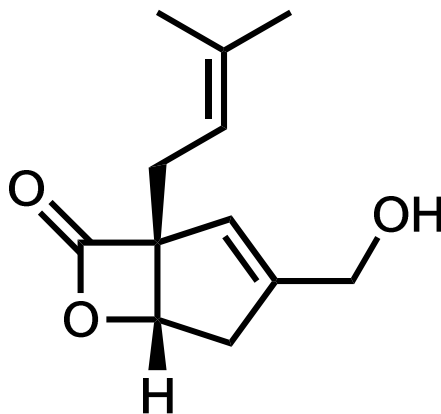


Small molecule synthesis

Retrosynthetic analysis of Vibralactone

- isolated 2006 from Basidiomycete *Boerostereum Vibrans*
- potent inhibitor of pancreatic lipase ($IC_{50} = 0.4 \mu\text{g/mL}$)
- anti-obesity drug



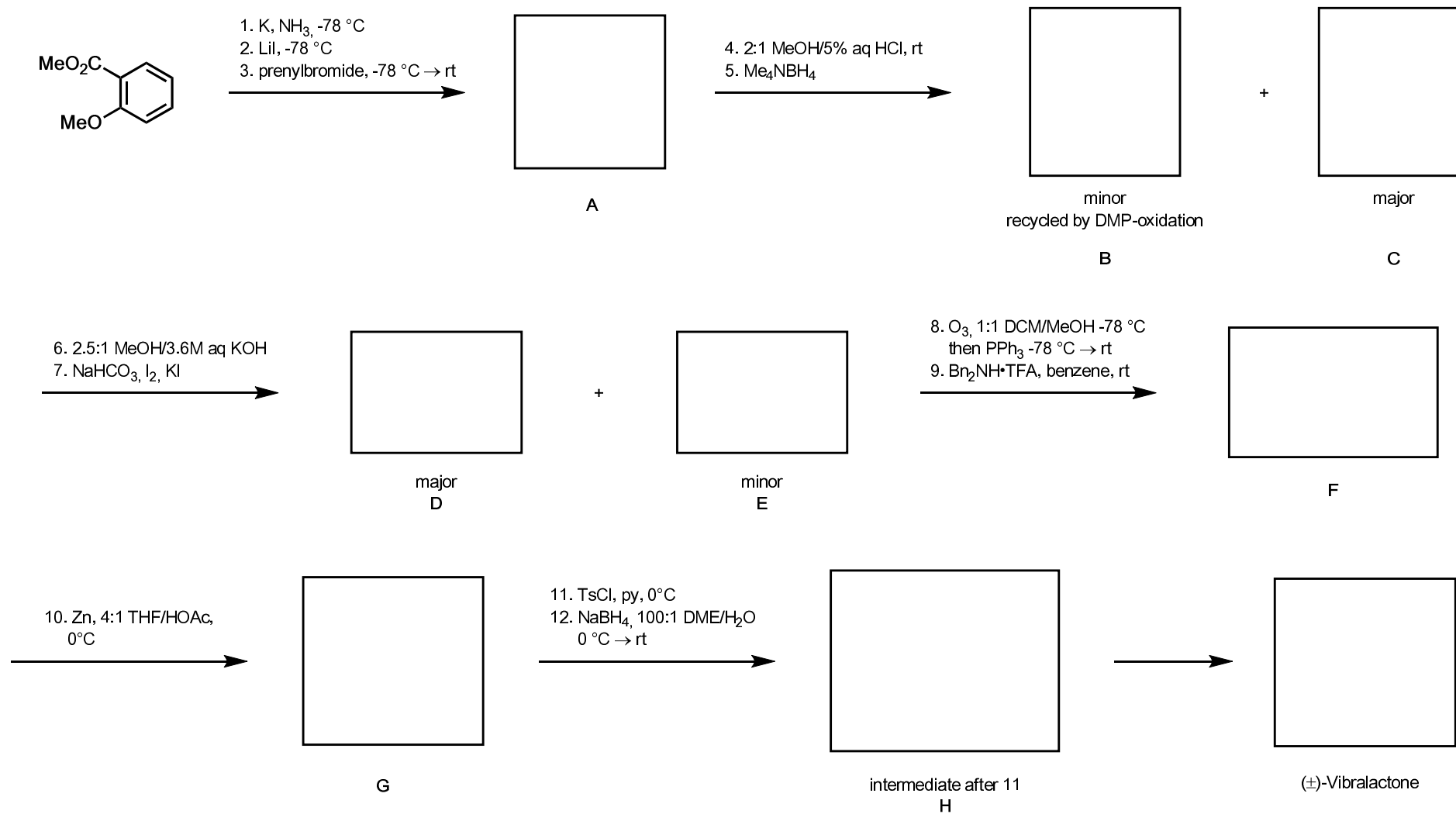
Synthesis of (\pm)-Vibralactone I - Working with mixtures

Q. Zhou, B.B. Snyder, *Org. Lett.* 2008, 10, 1401.

Diastereoselective Update

Q. Zhou, B.B. Snyder, *J. Org. Chem.* 2008, 73, 8049.

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Synthesis of (±)-Vibralactone II - Making cycles in the end

A. J. Leeder, R. J. Heap, L. J. Brown, X. Franck, R. C. D. Brown

Org. Lett. ASAP, published online October 31st, 2016

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