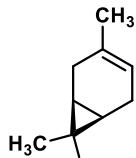
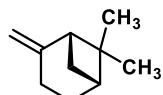


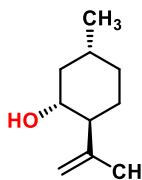
SOTW: Artemisinin (Cook, 2012)

Summary:

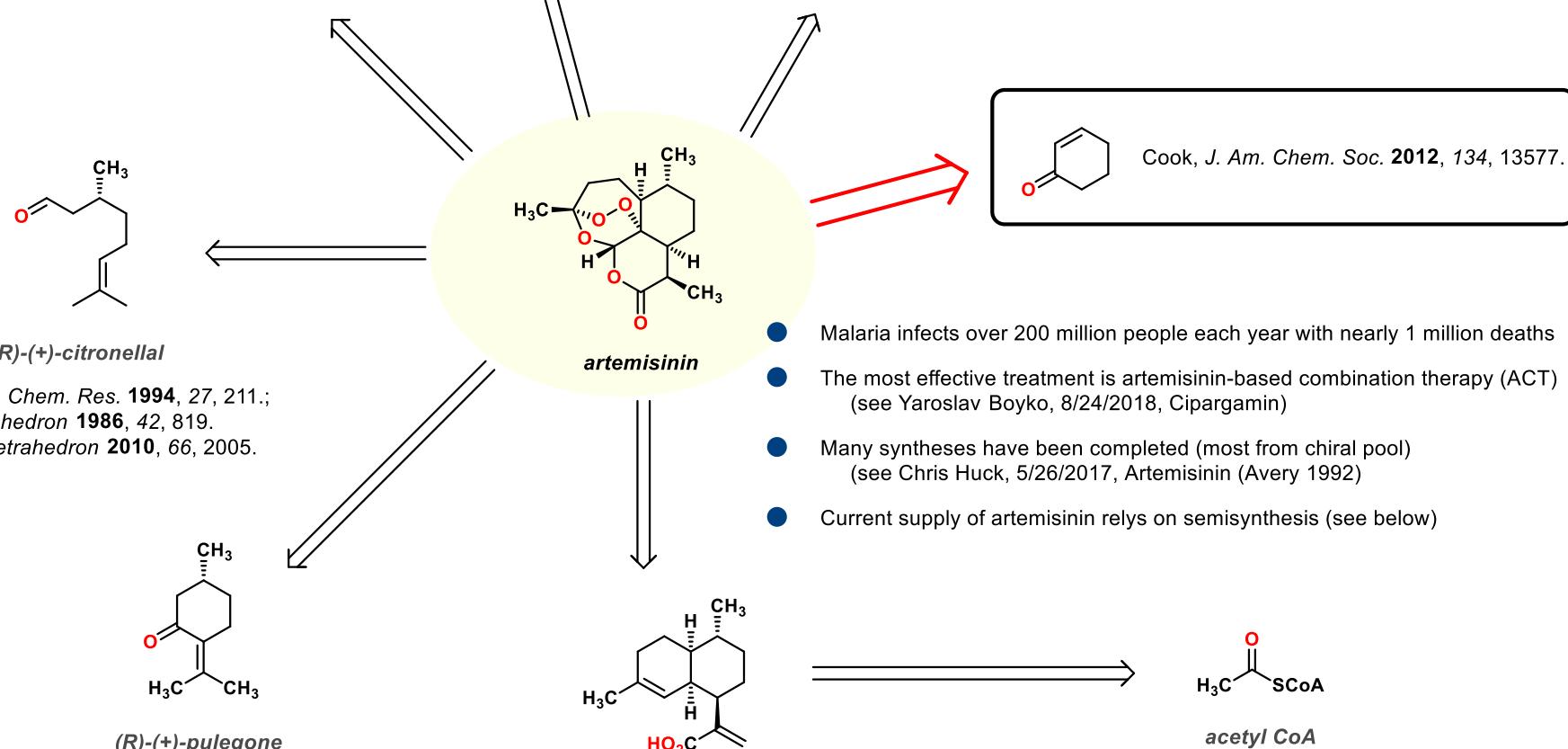
Ravindranathan, *Tet. Lett.* **1990**, 31, 755.



Liu, *Tet. Lett.* **1993**, 34, 4435.
Heterocycles, **1996**, 42, 493.



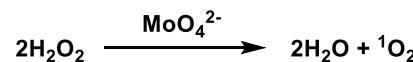
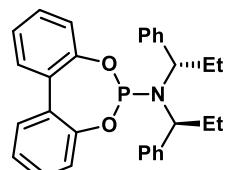
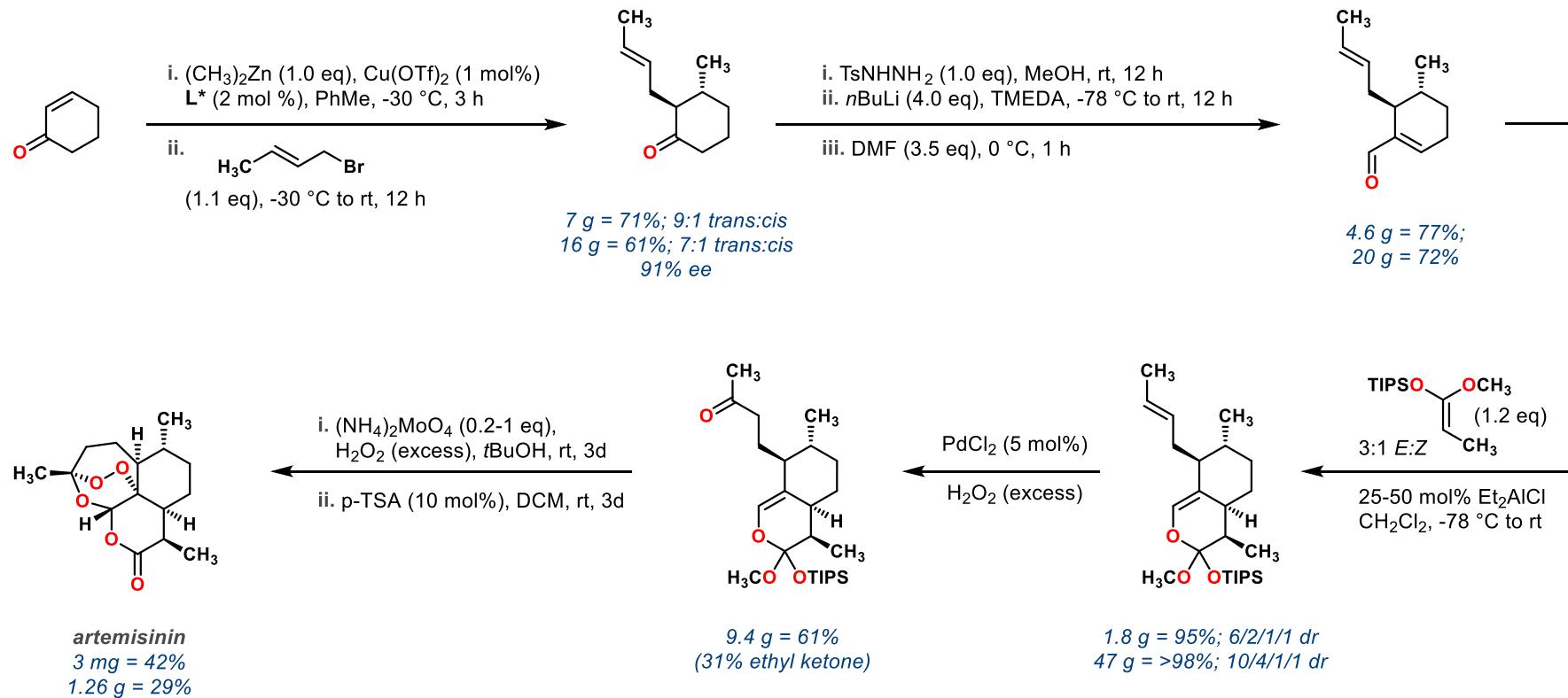
Hofheinz, *J. Am. Chem. Soc.* **1983**, 105, 624.
Constantino, *Synth. Comm.* **1996**, 26, 321.



- Malaria infects over 200 million people each year with nearly 1 million deaths
- The most effective treatment is artemisinin-based combination therapy (ACT) (see Yaroslav Boyko, 8/24/2018, Cipargamin)
- Many syntheses have been completed (most from chiral pool) (see Chris Huck, 5/26/2017, Artemisinin (Avery 1992))
- Current supply of artemisinin relies on semisynthesis (see below)

Sarpong & Keasling, *Nature* **2008**, 440, 940.

SOTW: Artemisinin (Cook, 2012)

Synthesis:

Inorg. Chem. 1995, 34, 4950.



Silas Cook