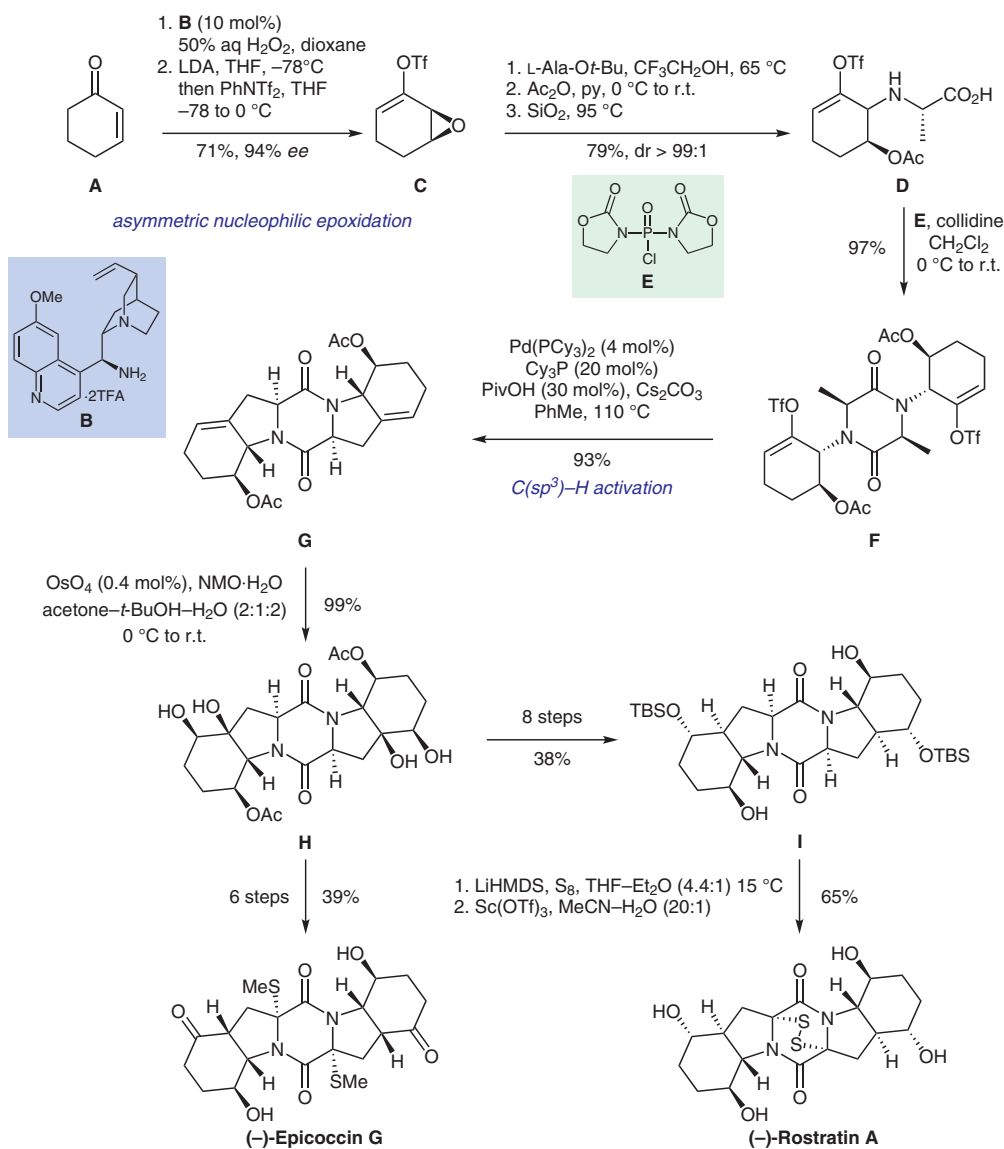


Synthesis of (–)-Epicoccin G and (–)-Rostratin A



Significance: (–)-Epicoccin G and (–)-rostratin A are members of the dithiodiketopiperazine family of natural products, whose members exhibit several biological activities, including in vitro anti-HIV-1 activity. The reported synthesis uses a C(sp³)–H activation to construct a common intermediate utilized in the synthesis of both natural products.

Comment: Asymmetric nucleophilic epoxidation of **A** followed by vinyl triflate formation afforded intermediate **C**. C(sp³)–H activation of **F** led to **G**, which was subsequently transformed into **H**, a common precursor for (–)-epicoccin G and (–)-rostratin A.

Further insights can also be found in this issue: *Synfacts* **2019**, *15*, 1423.