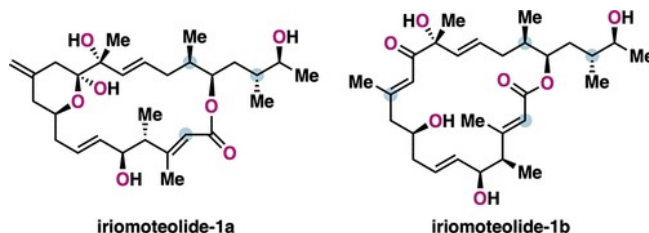


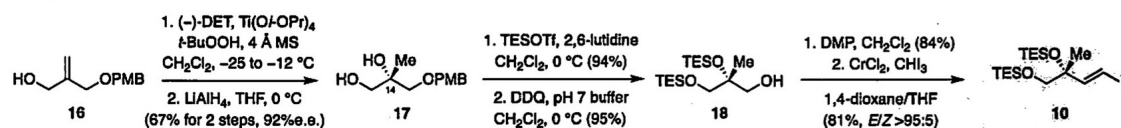
Even though nine stereoisomers of the proposed structure 1 have been synthesized, no one has reached the correct structure so far.

: one of "current challenging molecules for configurational assignment."

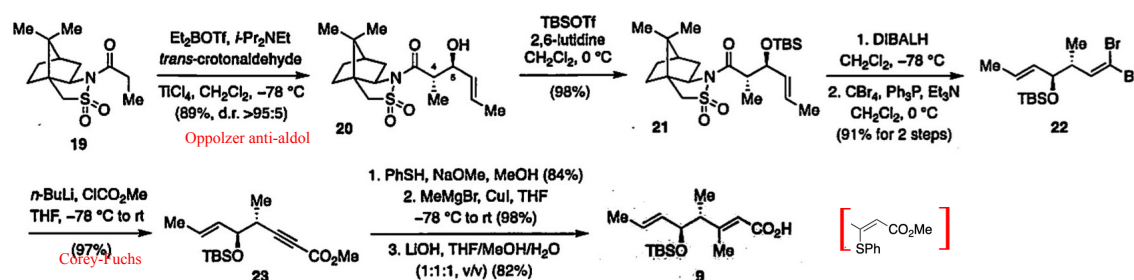


- | | |
|---------------------------------|-----------------------------------|
| 1. NMR analysis/MM calculations | 3. DFT calculations/DP4+ analysis |
| 2. model synthesis | 4. total synthesis |

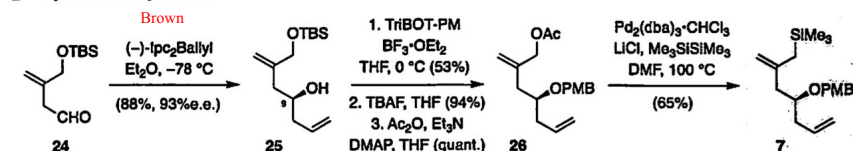
B Synthesis of Iodoolefin 10



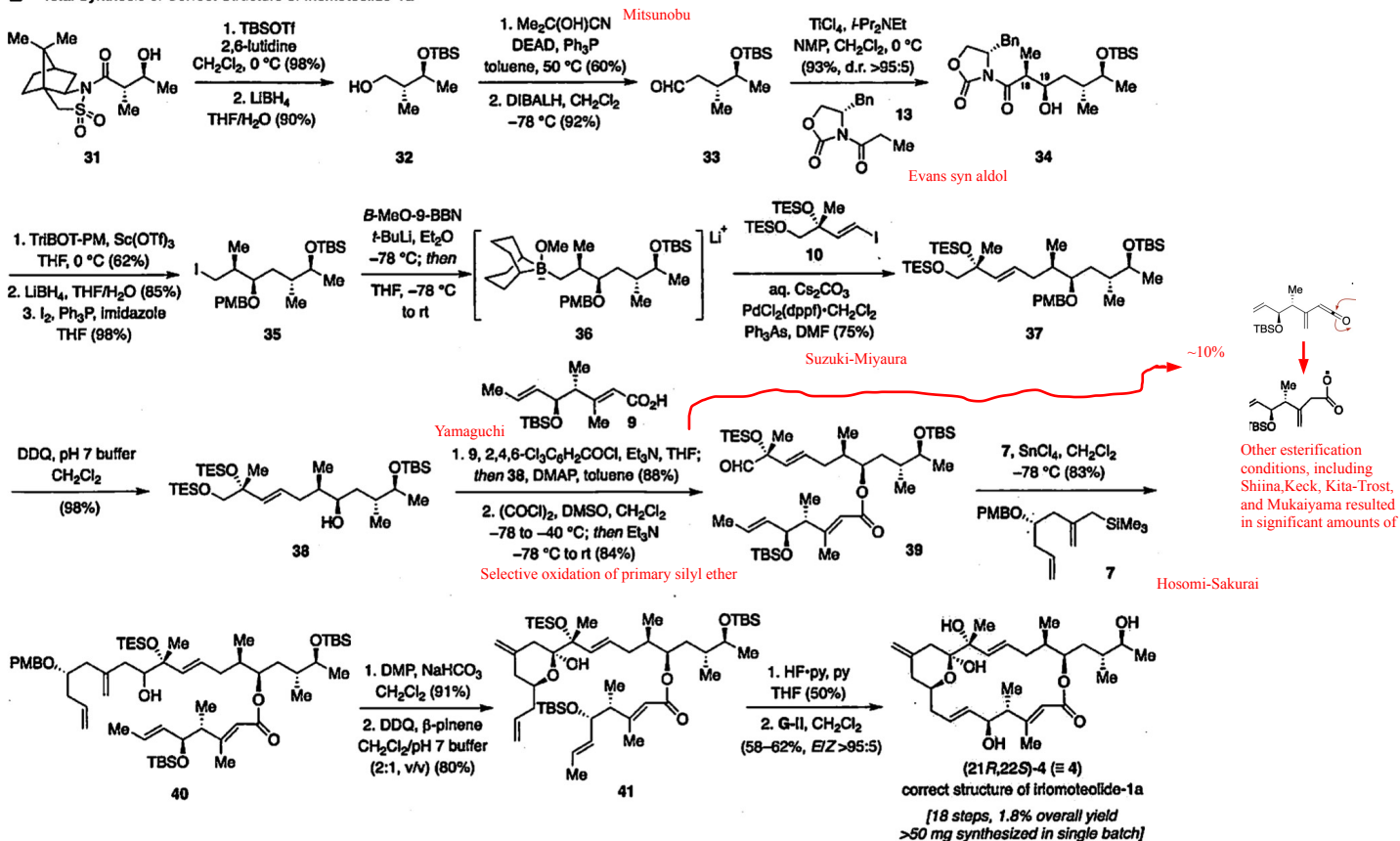
C Synthesis of α,β -Unsaturated Carboxylic Acid 9



D Synthesis of Allylsilane 7



B Total Synthesis of Correct Structure of Iriomoteolide-1a



C Transformation of Synthetic Iriomoteolide-1a to Iriomoteolide-1b

