♦ First Total Syntheses Completed for Caulamidine D and Isocaulamidine D
♦ Unified Strategy in 16 Steps
♦ Absolute Configurations Reassigned
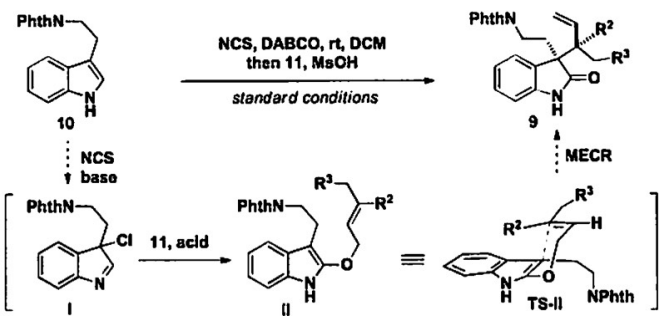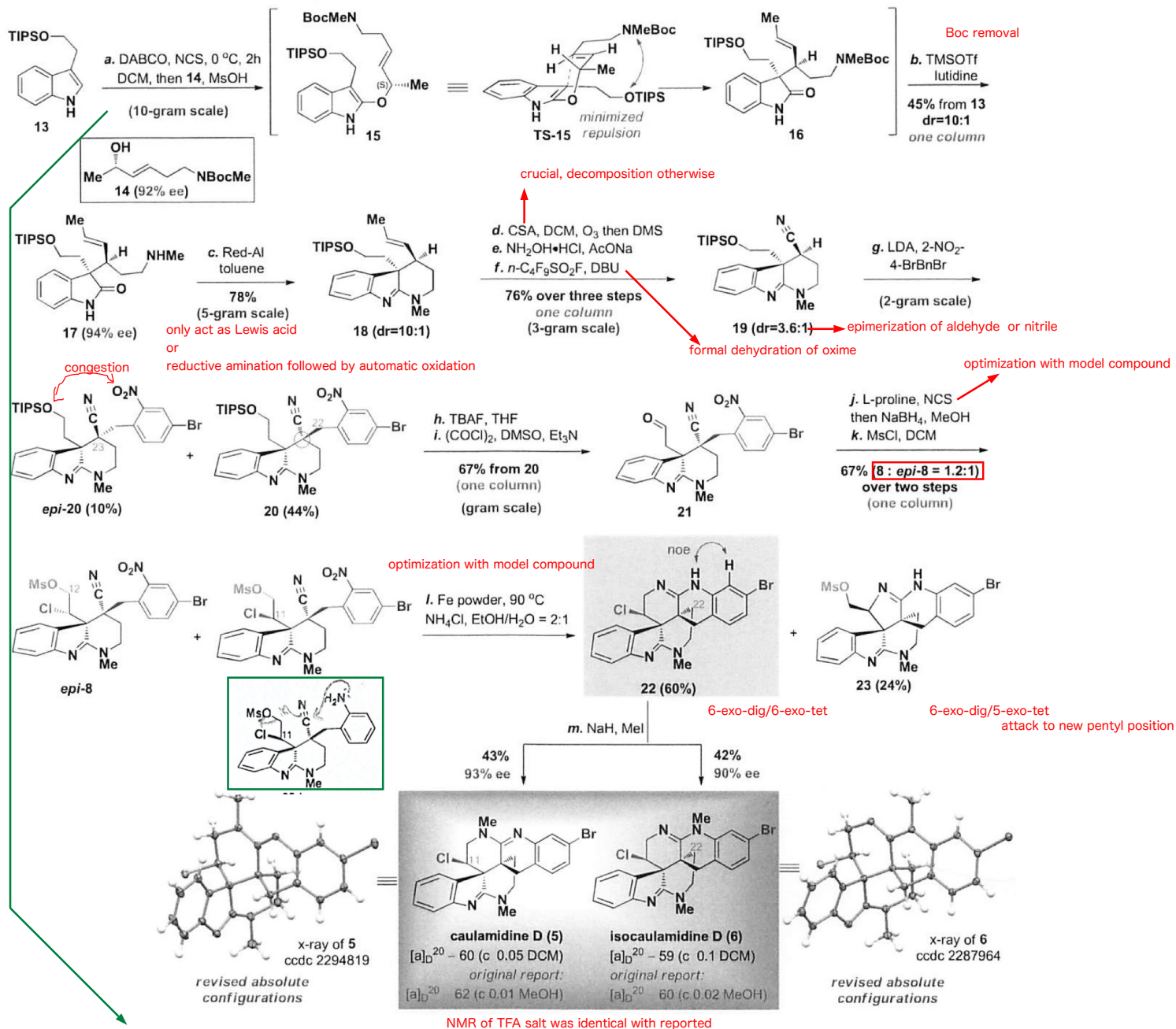♦ TFA salts of Natural Sample Deciphered

(–)-caulamidine D (5)   (–)-isocaulamidine D (6)

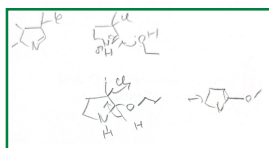x-ray of 5   x-ray of 6
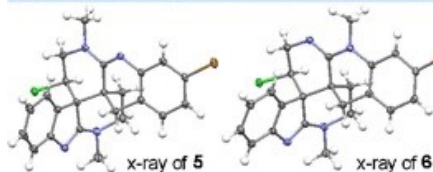
Key steps include:
1) Asymmetric Meerwein-Eschenmoser -Claisen Rearrangement (MECR)
2) Amine/Nitrile Cyclization Cascade

derive from a common intermediate through unselective methylation

Scheme 2. Enantioselective Total Syntheses of Caulamidine D (5) and Isocaulamidine D (6)[a]