Total Synthesis of Euphorbialoid A
Junichi Taguchi, Shintaro Fukaya, Haruka Fujino, Masayuki Inoue*
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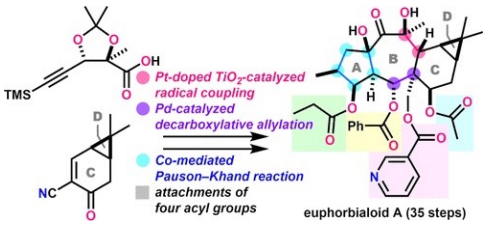
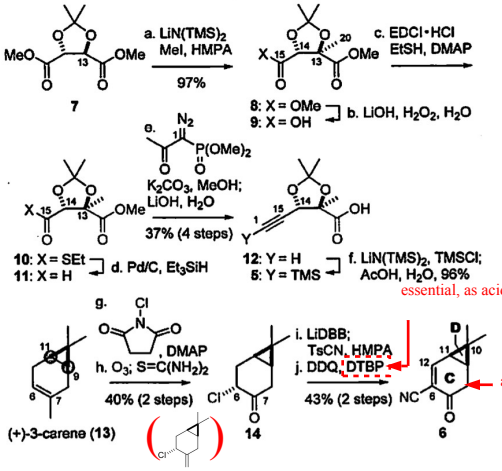


Scheme 2. Preparation of Carboxylic Acid 5 and Enone 6[a]



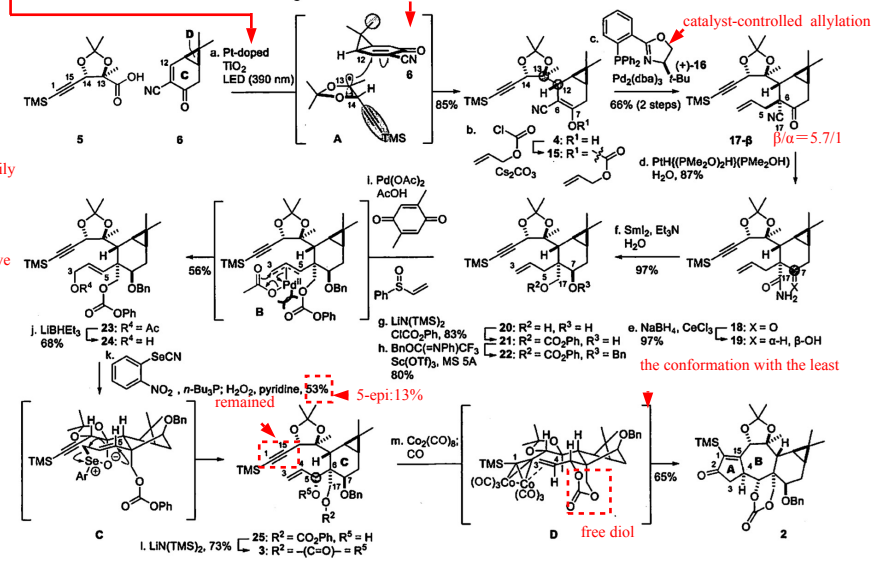
catalytic Ir(III) in the presence of K2HPO4 unsucces

nucleophilic a-alkoxy radical to the electrophilic

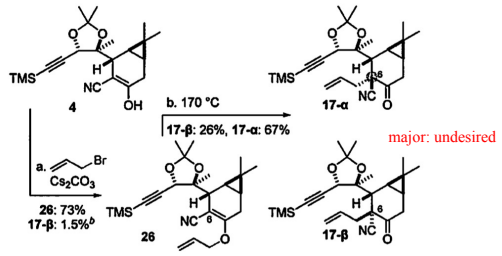
essential, as acidic DDQH2 readily

acid/base-sensitive

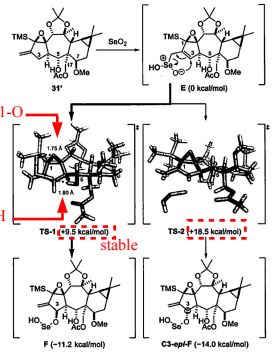
Scheme 3. Construction of the ABCD-Ring Skeleton[a]



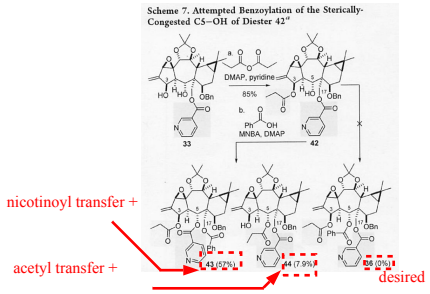
Scheme 4. Attempted Stereoselective C6-Allylation[a]

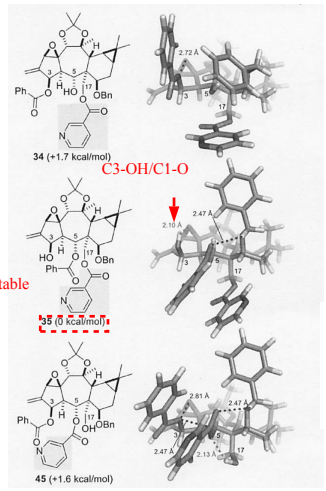


Scheme 6. Rationale for the Stereochemical Outcome of C3-Allylic Oxidation[a]

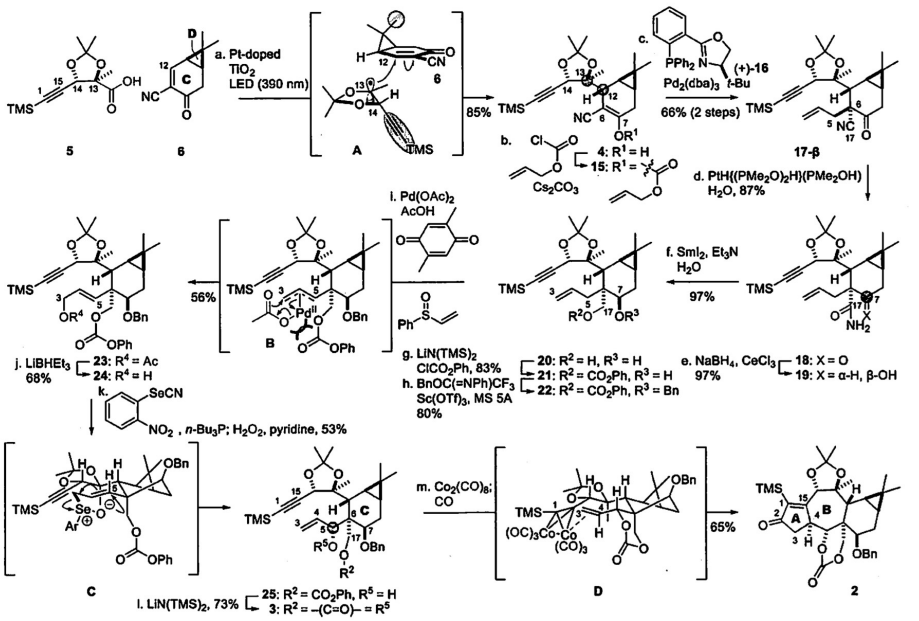
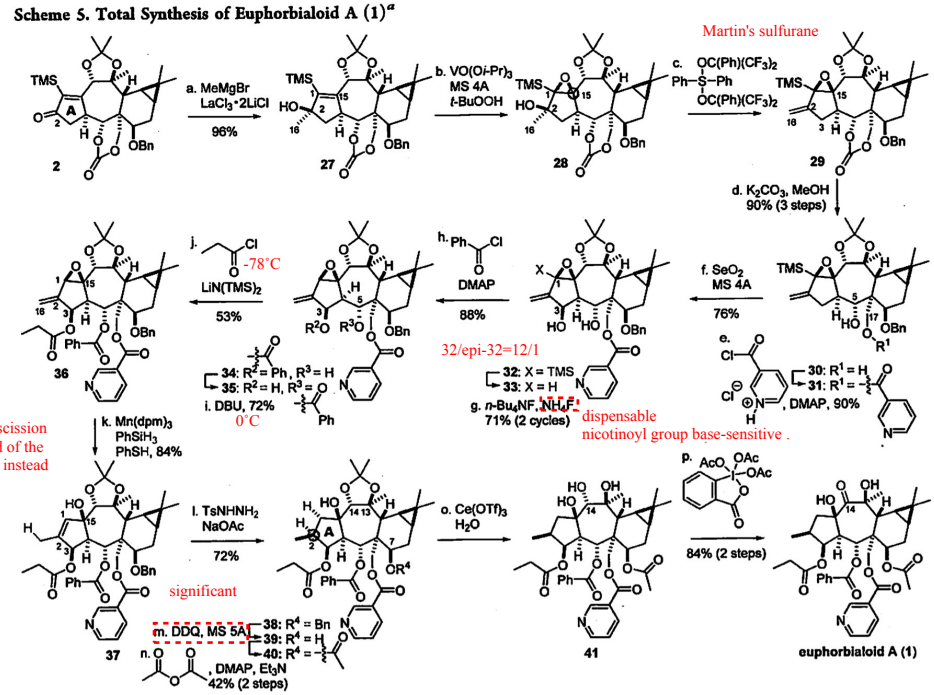


Scheme 7. Attempted Benzoylation of the Sterically-Congested C5–OH of Diester 42[a]





Scheme 3. Construction of the ABCD-Ring Skeleton[a]



Scheme 5. Total Synthesis of Euphorbialoid A (1)[a]