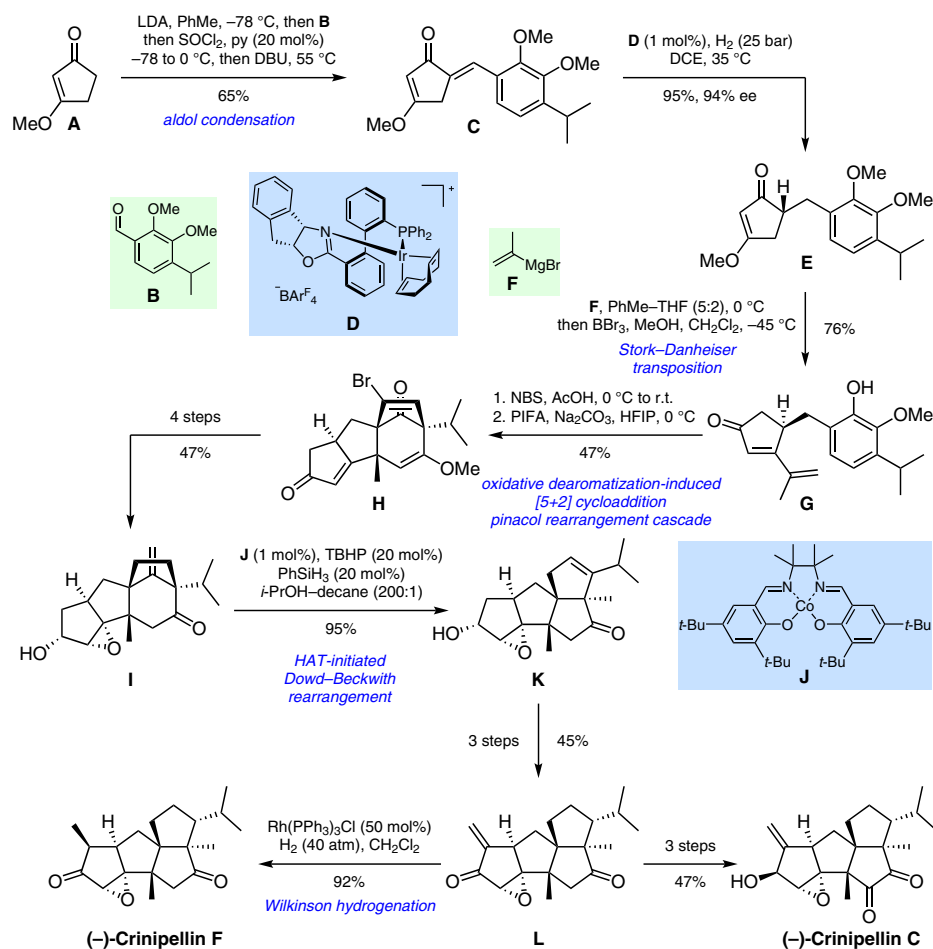


## Syntheses of (–)-Crinipellins C and F



**Significance:** The crinipellins are highly oxygenated tetraquinane natural products. Ding, Xie, and co-workers present their total syntheses featuring a HAT-initiated Dowd–Beckwith rearrangement. With enone **L** as a common intermediate, the authors were able to access eight natural products of the crinipellin family.

**Comment:** Cycloaddition precursor **G** was synthesized by Stork–Danheiser transposition of vinylogous ester **E**. An oxidative dearomatization-induced [5+2] cycloaddition pinacol rearrangement cascade yielded tetracycle **H**. Alkene **I** underwent a hydrogen atom transfer initiated Dowd–Beckwith rearrangement furnishing the tetraquinane framework.

Category

Synthesis of Natural Products and Potential Drugs

Key words

(–)-crinipellins

Stork–Danheiser transposition

[5+2] cycloaddition

Dowd–Beckwith rearrangement

Wilkinson hydrogenation

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