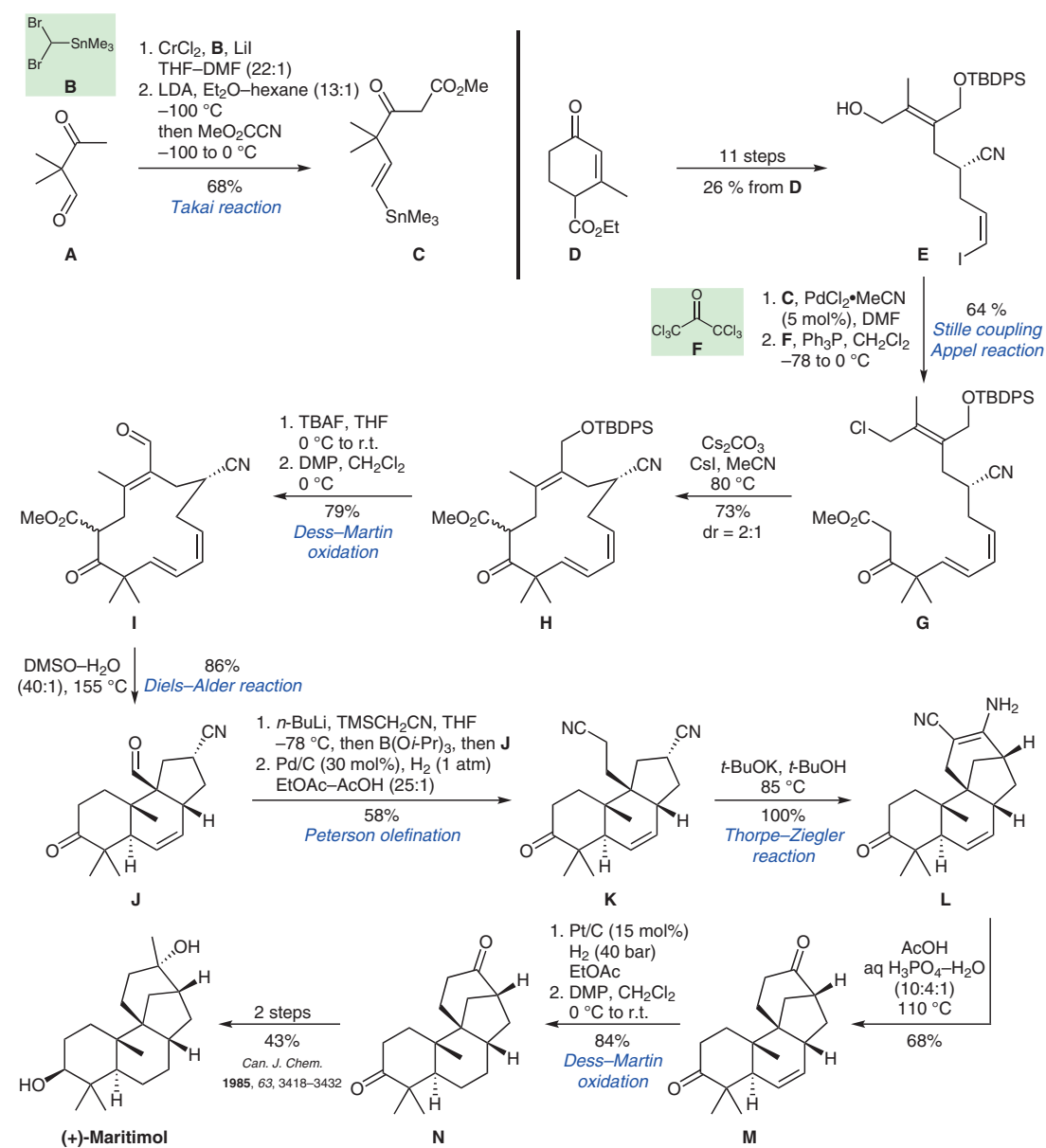


A. TORÓ, P. NOWAK, P. DESLONGCHAMPS* (UNIVERSITÉ DE SHERBROOKE, QUEBEC, CANADA)

Transannular Diels–Alder Entry into Stemodanes: First Asymmetric Total Synthesis of (+)-Maritamol

J. Am. Chem. Soc. **2000**, *122*, 4526–4527, DOI: 10.1021/ja000728f.

Total Synthesis of (+)-Maritamol



Significance: In 2000, Deslongchamp and co-workers reported the first asymmetric total synthesis of the diterpenoid (+)-maritamol. Key to their approach is a transannular Diels–Alder (TADA) reaction.

Comment: Stille coupling of vinyl iodide **E** and stannane **C**, followed by Appel reaction gave access to acyclic tetraene **G**. Base-mediated macrocyclization, deprotection and oxidation furnished aldehyde **I**, which undergoes the desired TADA reaction and decarboxylation upon heating.

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Appel reaction

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Diels–Alder reaction

Peterson olefination

Thorpe–Ziegler reaction

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