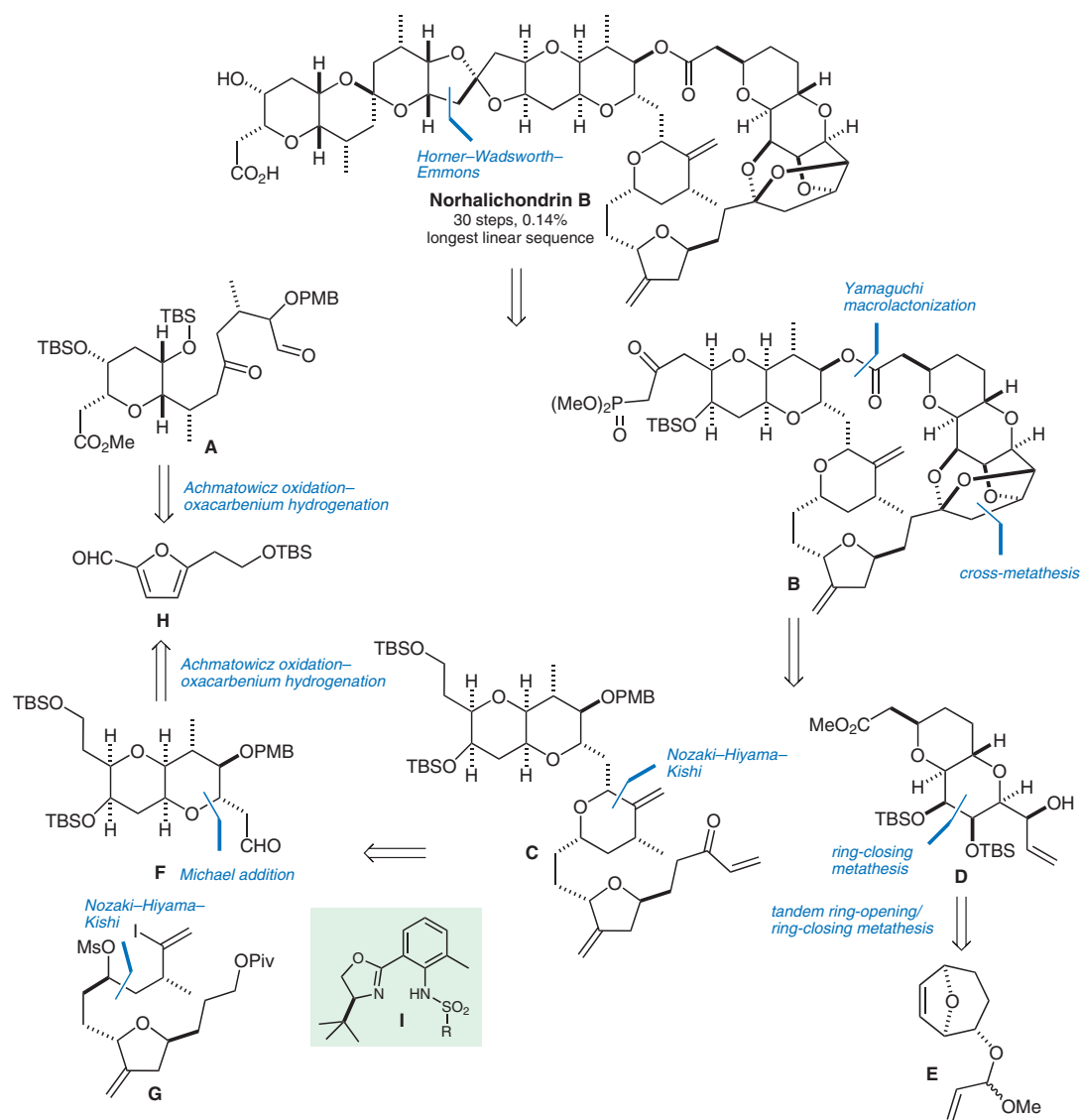


K. L. JACKSON, J. A. HENDERSON, H. MOTOYOSHI, A. J. PHILLIPS\* (UNIVERSITY OF COLORADO, BOULDER, USA)

A Total Synthesis of Norhalichondrin B

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## Synthesis of Norhalichondrin B



**Significance:** Norhalichondrin B is a marine polyether with potent cytotoxicity. Key to this synthetic approach are the Nozaki-Hiyama-Kishi reactions and the tandem Achmatowicz oxidation-ionic hydrogenation which form the pyranopyran systems.

**Comment:** The Nozaki-Hiyama-Kishi reactions were run in the presence of chiral ligand **I** where R was either methyl or naphthyl. The Achmatowicz oxidation-hydrogenation was highly diastereoselective (dr > 20:1).

**SYNFACTS Contributors:** Philip Kocienski, Stewart Eccles  
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