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A General Entry to Antifeedant Sesterterpenoids: Total Synthesis of (+)-Norleucosceptroid A, (–)-Norleucosceptroid B, and (–)-Leucosceptroid K

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**Category**

**Synthesis of Natural Products and Potential Drugs**

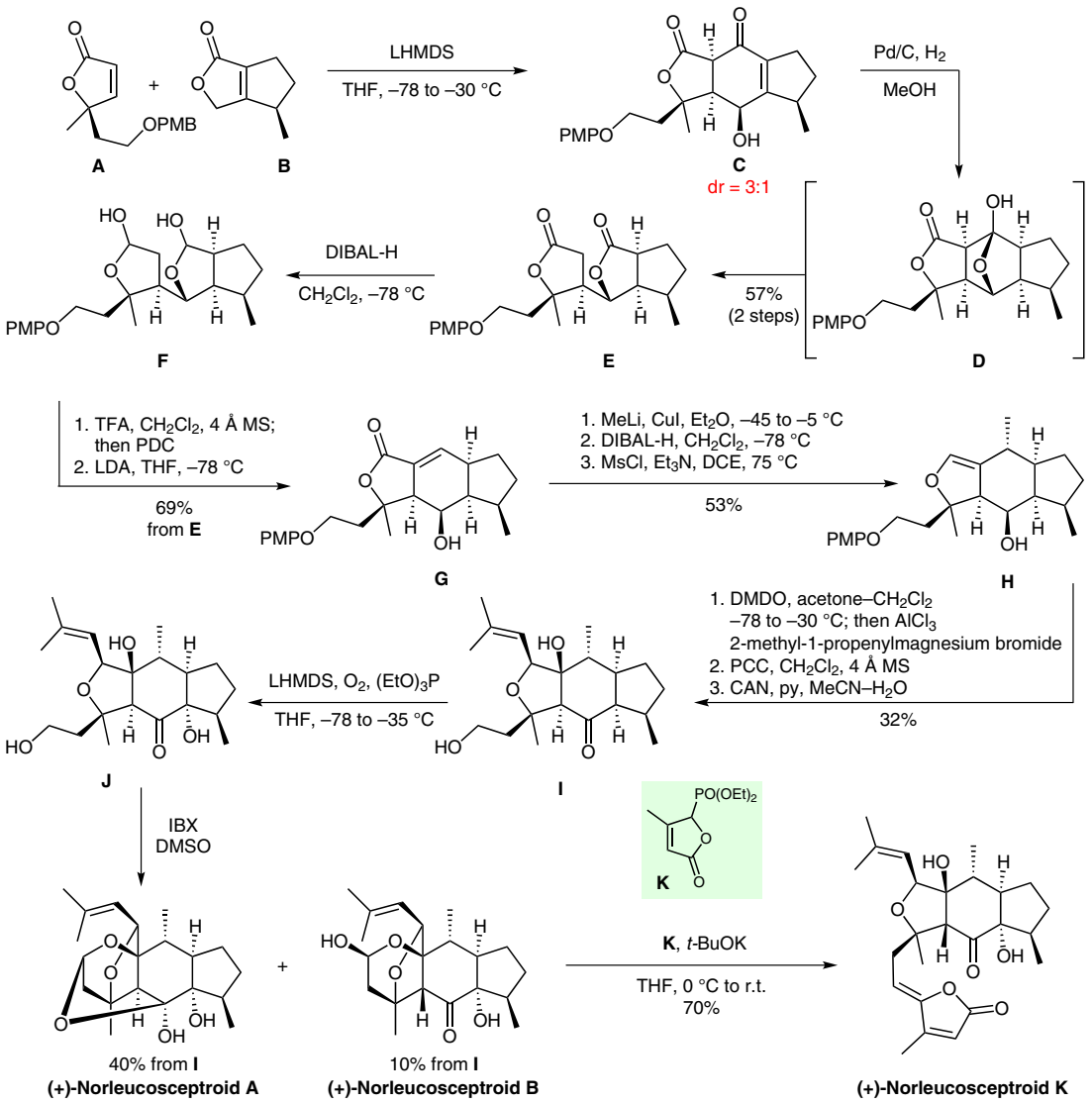
**Key words**

**sesterterpenoids**

**antifeedants**

**leucosceptroids**

# Synthesis of Norleucosceptroids A, B, and K




**Significance:** The target compounds represent a family of sesterterpenoids with antifeedant activity against a variety of plant-feeding insects and pathogens. Their potential application in plant protection renders them highly interesting targets for total synthesis and biological profiling.

**Comment:** The authors employed an interesting aldol-type condensation of dilactol **F** en route to **G**. **H** was subjected to a sequence including epoxidation followed by aluminum-mediated opening leading to the required *syn*-configured species **I**, which was elaborated into the unnatural enantiomers of norleucosceptoids A, B, and K.

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