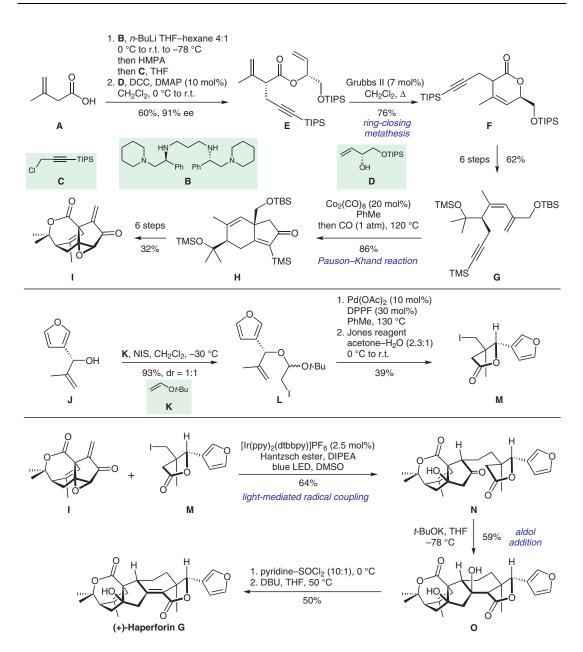
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Total Synthesis of (+)-Haperforin G

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## Synthesis of (+)-Haperforin G



Significance: Chen, Yang, and co-workers report the first total synthesis of (+)-haperforin G, a structurally complex member of the limonoid family of tetranortriterpenoid natural products. Their synthesis features an efficient radical coupling of two fragments.

**Comment:** Intermediate **G** is accessed from **A** in nine steps and transformed to H via a Pauson-Khand reaction. Further six steps give rise to I, which is then joined with M via a light-mediated radical-based coupling to obtain **o**.

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Category

**Synthesis of Natural** Products and **Potential Drugs** 

## Key words

(+)-haperforin G

limonoids

tetranortriterpenoids

ring-closing metathesis

Pauson-Khand

light-mediated radical coupling

aldol addition



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