Significance: Snyder and co-workers reported the asymmetric total synthesis of (-)-chilocorine C, a defensive alkaloid isolated from ladybugs. Key to the synthesis was a reductive cyclization/Mannich cascade.

Comment: Advanced intermediate **G**, prepared by a [3+2] cycloaddition, is rapidly converted into I containing the tricyclic core of the natural product. Hofmann rearrangement followed by oxidation and aldol condensation leads to O, which is transformed into the natural product in two steps.

Synthesis of Natural Products and **Potential Drugs**

Key words

(-)-chilocorine C [3+2] cycloaddition cascade reaction Mannich reaction



