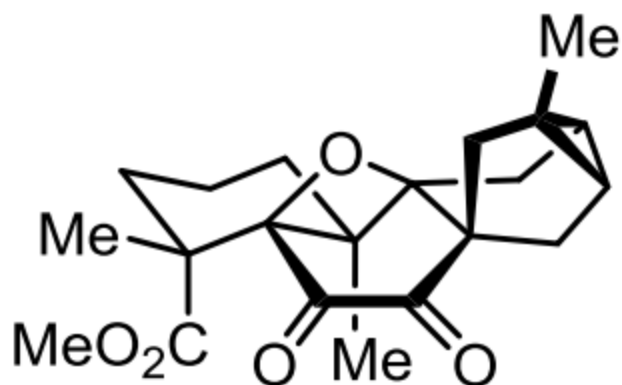


Total Synthesis of (–)-Mitrephorone A

Richter, M. J. R.; Schneider, M.; Brandstatter, M.; Krautwald, S.; Carreira, E. M., *J. Am. Chem. Soc.*

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- Antimicrobial/antitumor agent isolated from *Mitrephora glabra*.
- Contains a fully substituted oxetane ring, which is a common motif in natural products and to which its cytotoxicity can be ascribed.
- Highly congested structure (tetrasubstituted cyclopropane, four quaternary centers, and five contiguous stereocenters) poses a unique challenge for total synthesis



(–)-mitrephorone A (**1**)



15 November 2018
Jeremy Armand

Retrosynthetic Analysis

