



Significance: Gonzalez-Martinez, Boxer, Burns and co-workers report an impressive total synthesis of a ladderane phospholipid based on strategic [2+2] cycloadditions of bicyclohexene **B**, which is obtained by means of a Ramberg-Bäcklund ring contraction of sulfoxide **A**.

SYNFACTS Contributors: Erick M. Carreira, Leonardo J. Nannini
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Comment: Bicyclohexene **B** irradiated in the presence of CuOTf gave pentacycle **F**, which was subjected to an oxidative chlorination-elimination sequence to give cyclobutene **I**. Enantioselective hydroboration and four further steps yielded [5]-ladderanoic acid.