Progress in Total Synthesis

11-Step Total Synthesis of Araiosamines
Maoqun Tian, Ming Yan, Phil S. Baran, J. Am. Soc, 2016, 138, 14234-14237

Araiosamines A-D were isolated in 2011
Structure contains two guanidines, three bromoindole heterocycles, six contiguous stereocenters, and unique [4.3.1] bicycle architectures.

Structures of araiosamines A-D and putative biogenesis

Evolution of synthetic strategies
Natural products reported potency erroneously
Araiosamines exhibits considerable activities against both Gram-positive and Gram-negative bacteria