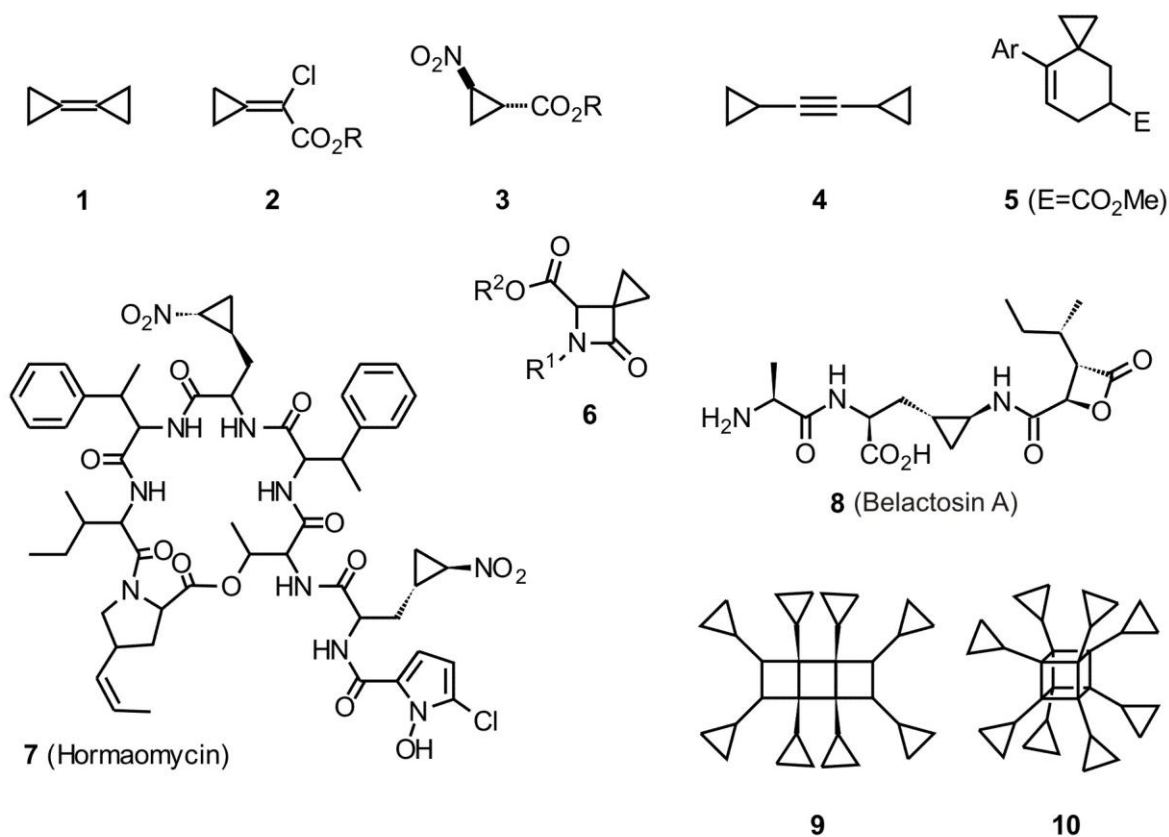


Recent Achievements Concerning Cyclopropanes, Natural Products and Metal Catalysis

Armin de Meijere

*Institut für Organische und Biomolekulare Chemie der Georg-August-Universität
Göttingen, Tammannstrasse 2, D-37077 Göttingen, Germany
E-mail: Armin.deMeijere@chemie.uni-goettingen.de*

Reliable and easily scalable syntheses of a number of multifunctional cyclopropane derivatives like bicyclopopylidene (**1**), 2-chloro-2-cyclopropylideneacetate (**2**), *trans*-2-nitrocyclopropanecarboxylate (**3**) and others will be presented. Their applications towards efficient syntheses of potentially biologically active compounds like the biaryl mimetics **5**, spirocyclopropanated β -lactams **6** as well as the highly active natural products hormaomycin (**7**) and belactosin (**8**) will be discussed. The review will be rounded off with the two-step synthesis of the high-energy molecule octacyclopopylcubane (**10**) from dicyclopopylacetylene (**4**) via the tricyclooctadiene **9**.



For literature references concerning all this chemistry and more, see the homepage at <http://www.adm.chemie.uni-goettingen.de>