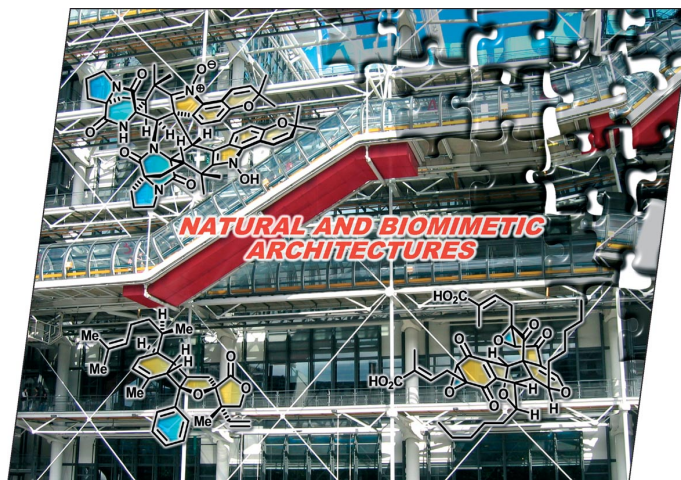


COVER PICTURE

The cover picture shows three representative structures of complex natural products. They exemplify the main topic discussed in the Microreview by E. Gravel and E. Poupon on p. 27ff: To what extent can natural substances be assembled spontaneously in nature? The modular architecture of the Pompidou Centre for modern art and creation in Paris has been chosen as a background. Indeed, this masterpiece of architectural design has obvious references to the complexity of living systems.



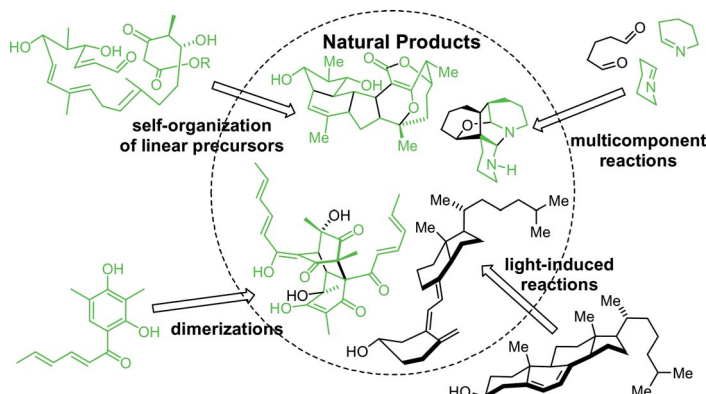
MICROREVIEW

Biomimetic Chemistry

E. Gravel, E. Poupon* 27–42

Biogenesis and Biomimetic Chemistry: Can Complex Natural Products Be Assembled Spontaneously?

Keywords: Natural products / Biogenesis / Biomimetic synthesis / Molecular complexity / Molecular diversity



In some cases, complex structures of natural products can be generated with surprising spontaneity, through self-construction mechanisms. Rearrangements of linear molecules, light-induced reactions, dimeri-

zations and multi-component reactions can explain the formation of secondary metabolites through the intrinsic reactivity of their precursors.

SHORT COMMUNICATIONS

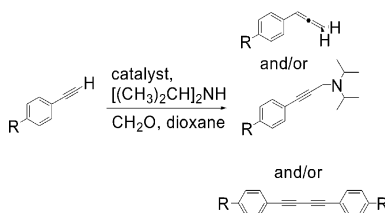
Allenes from Arylacetylenes

V. Kumar, A. Chipeleme,
K. Chibale* 43–46



Effect of Varying the Anionic Component of a Copper(I) Catalyst on Homologation of Arylacetylenes to Allenes by the Mannich Reaction

Keywords: Allene / Homologation / Mannich reaction / Copper(I) catalyst / Alkyne dimerization



The effect of varying the anionic component of a copper(I) catalyst in the homologation of terminal arylacetylenes to allenenes by the Mannich reaction was investigated. Varying amounts of allenenes, Mannich bases and dimers were obtained depending on the nature of the anionic component of the copper catalyst.