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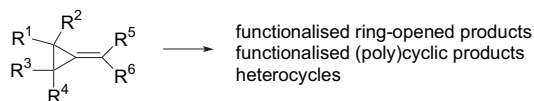
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REPORT

Recent developments in the reactivity of methylene- and alkylidenecyclopropane derivatives

pp 8341–8375

Hélène Pellissier



This review is intended to update the recent developments in the reactivity of methylene- and alkylidenecyclopropanes, covering the literature from 2003 to 2010. The highly strained structure of these atypical compounds allows an otherwise unattainable chemical reactivity in many diverse synthetic applications, such as ring-opening reactions, cycloaddition reactions, rearrangements, radical reactions, polymerisation reactions and miscellaneous reactions including addition reactions with ring conservation and Heck reactions.

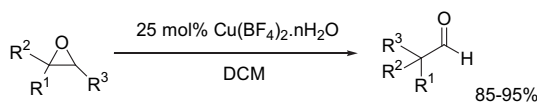
This review clearly demonstrates the spectacular diversity and power of these reactions in the field of synthetic organic chemistry, such as the synthesis of a wide number of heterocyclic compounds.

ARTICLES

Copper(II) tetrafluoroborate-promoted Meinwald rearrangement reactions of epoxides

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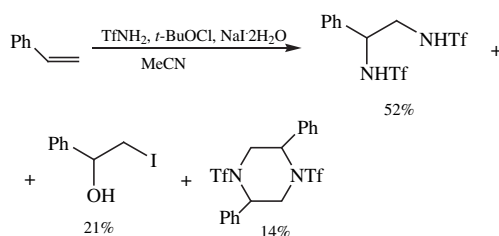
Mathew W.C. Robinson, Kathryn S. Pillinger, Ian Mabbett, David A. Timms, Andrew E. Graham*



Formation of unexpected products in the attempted aziridination of styrene with trifluoromethanesulfonyl nitrene

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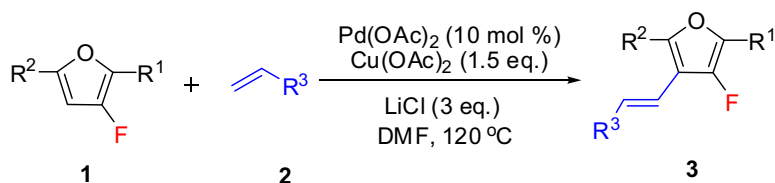
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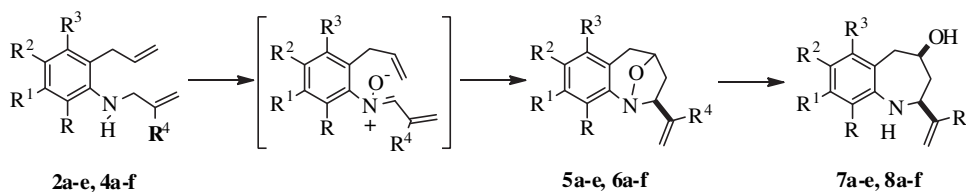
Peng Li, Ji-Wei Gu, Yin Ying, Yu-Ming He, Hong-fei Zhang, Gang Zhao*, Shi-Zheng Zhu*



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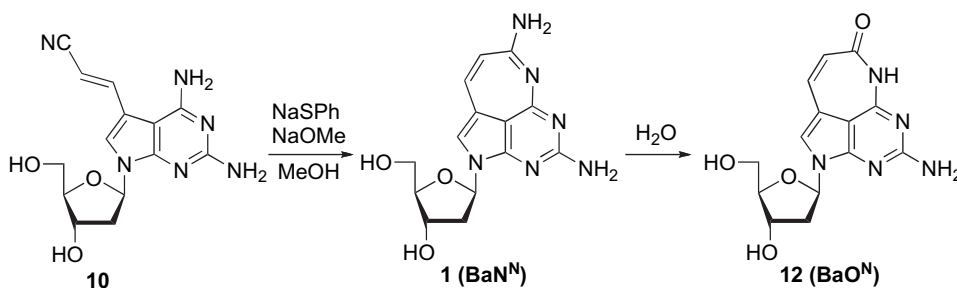
Lina María Acosta, Alirio Palma*, Alí Bahsas



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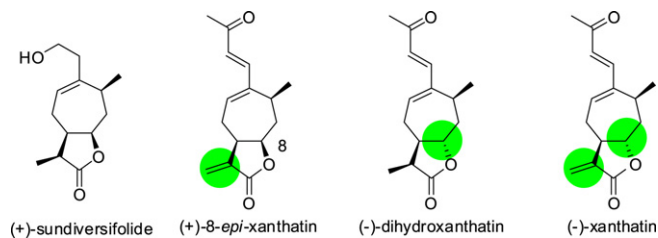
Yasuyuki Hirama, Hiroshi Abe, Noriaki Minakawa*, Akira Matsuda



Total synthesis of xanthanolides

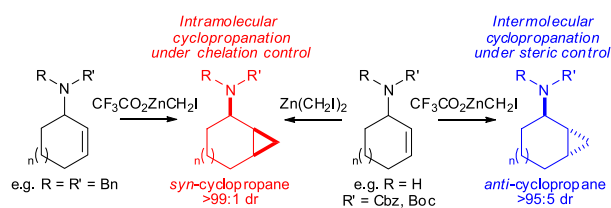
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Kazumasa Matsuo, Keiko Ohtsuki, Takashi Yoshikawa, Koza Shishido, Kaori Yokotani-Tomita, Mitsuru Shindo*

**Chemo- and diastereoselective cyclopropanation of allylic amines and carbamates**

pp 8420–8440

Kristína Csátayová, Stephen G. Davies*, James A. Lee, Kenneth B. Ling, Paul M. Roberts, Angela J. Russell, James E. Thomson

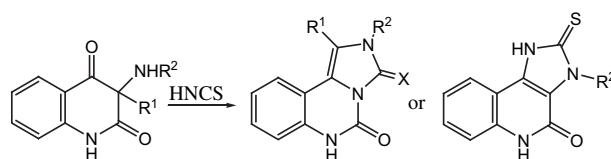


Cyclopropanation of allylic amines and carbamates occurs under either chelation or steric control to give the corresponding *syn*- or *anti*-cyclopropanes, respectively, with excellent levels of diastereoselectivity.

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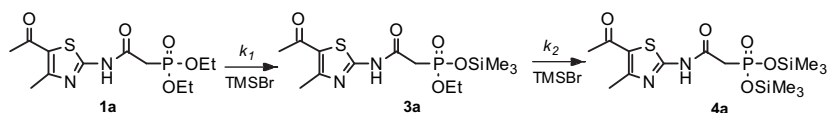
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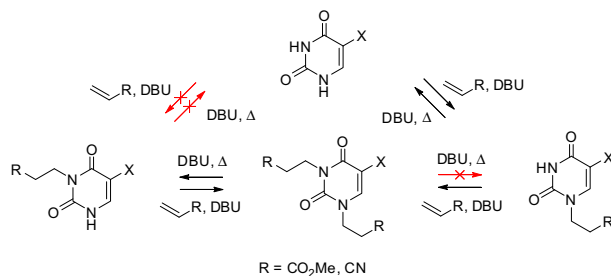
Anne C. Conibear, Kevin A. Lobb, Perry T. Kaye*



Michael versus retro-Michael reaction in the regioselective synthesis of N-1 and N-3 uracil adducts

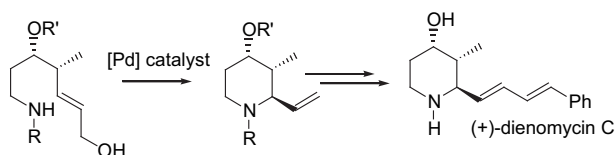
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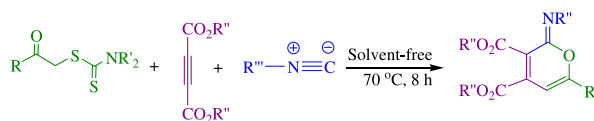
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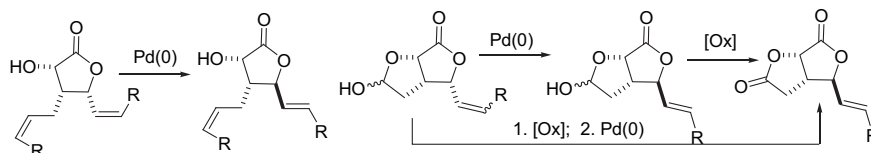
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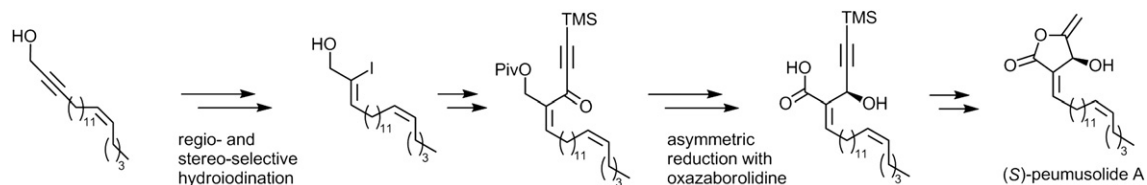
Yung-Son Hon*, Hsien-Fan Chen, Chen-Yi Kao, Ching-Zong Luo



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Satoru Tamura, Shunsuke Doke, Nobutoshi Murakami*



*Corresponding author

i+ Supplementary data available via ScienceDirect

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