



Tetrahedron Vol. 67, Issue 17, 2011

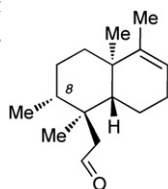
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Taotao Ling, Jing Xu, Ryan Smith, Abbas Ali, Charles L. Cantrell, Emmanuel A. Theodorakis*

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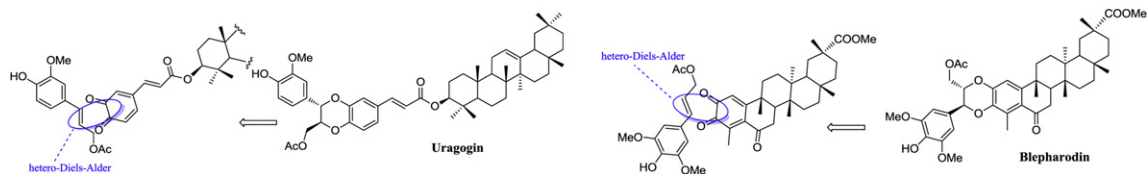
**1: (–)-callicarpenal**

Callicarpenal (**1**), a natural terpenoid isolated from American beautyberry (*Callicarpa americana*), has shown significant repellent activities against mosquitoes, ticks, and imported fire ants. Here we report an efficient synthetic approach to this natural product, and preliminary results of the mosquito biting-deterrent effects of callicarpenal as well as its synthetic precursors and related C₈-epimers. The synthesis is enantioselective, amenable to rapid functionalization of the bicyclic core, and suitable for scale-up.

**Uragogin and blepharodin, unprecedented hetero-Diels–Alder adducts from Celastraceae species**

Marvin J. Núñez, María L. Kennedy, Ignacio A. Jiménez, Isabel L. Bazzocchi*

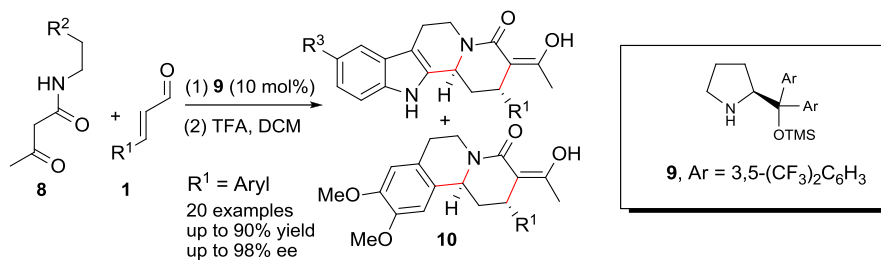
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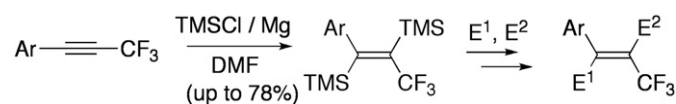
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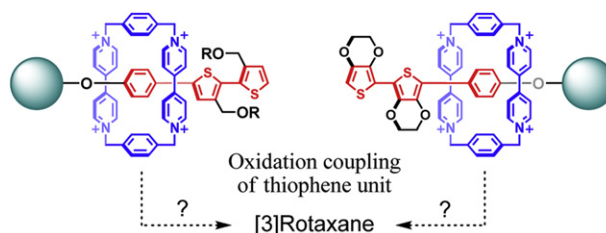
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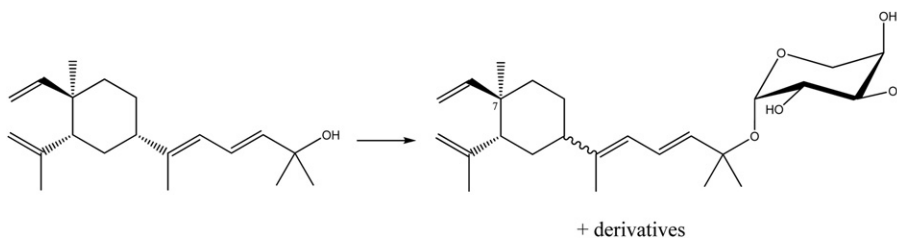
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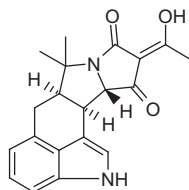
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Asymmetric total synthesis of the indole alkaloid cyclopiiazonic acid and first structure–activity data

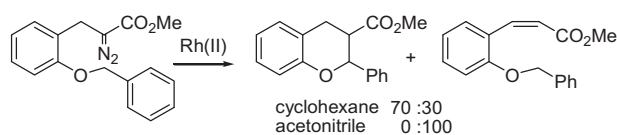
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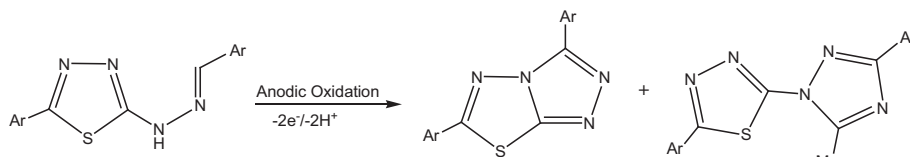
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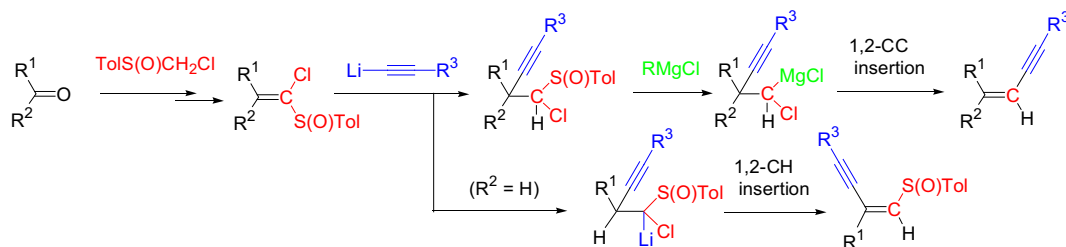
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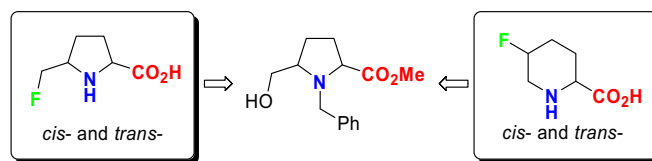
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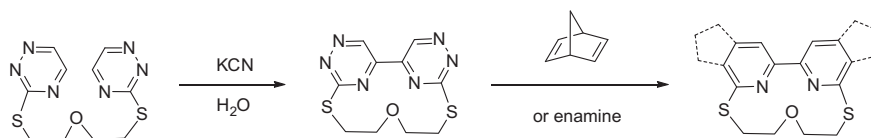
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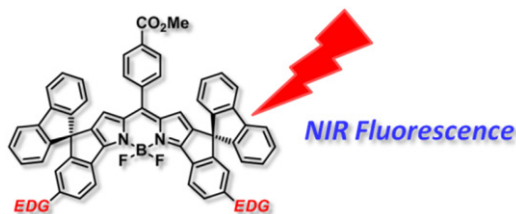
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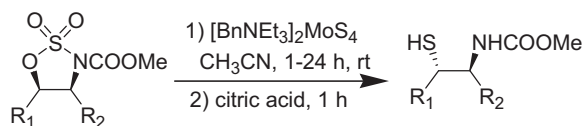
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R.B. Nasir Baig, N.Y. Phani Kumar, Jamsad Mannuthodikayil, Srinivasan Chandrasekaran*

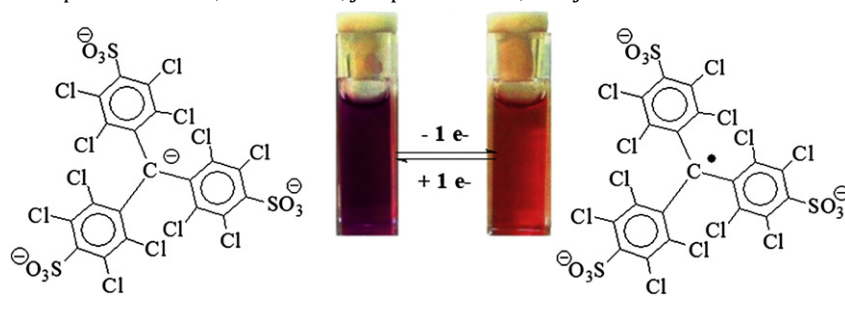
R₁ = Alkyl, Aryl or EsterR₂ = Alkyl, Aryl

78–95%

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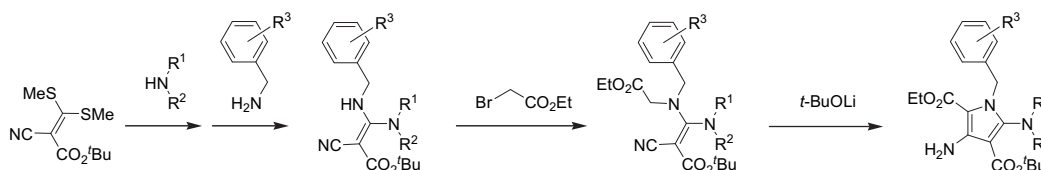
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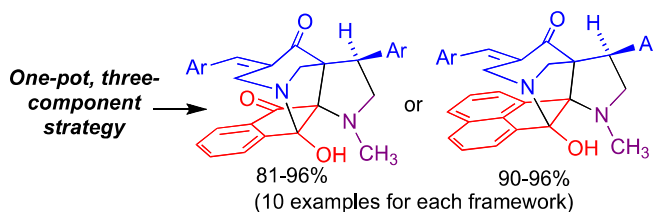
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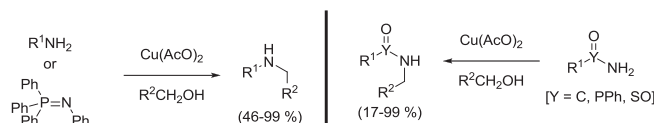
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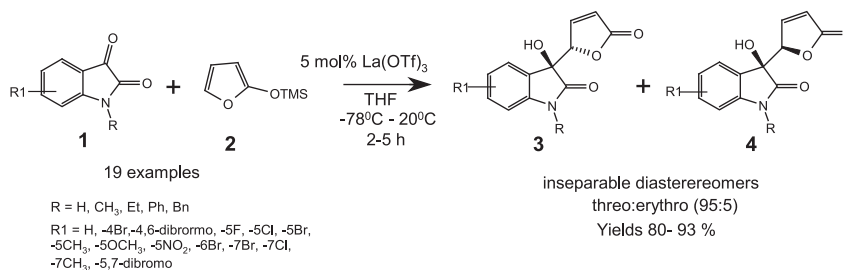
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Harshadas Mitaram Meshram*, Palakuri Ramesh, Bandi Chennakesava Reddy, Balasubramanian Sridhar, Jhillu Singh Yadav



*Corresponding author

Supplementary data available via ScienceDirect

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