ELSEVIER

Tetrahedron

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# Contents

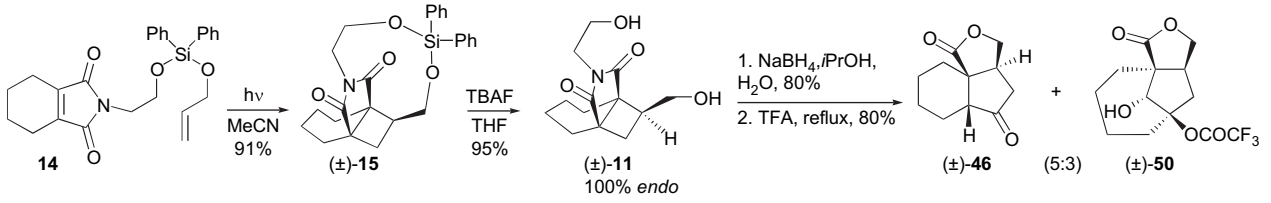
## REPORT



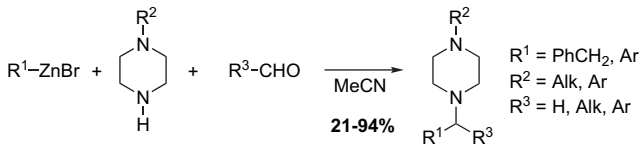
In the recent years, the organotrifluoroborates chemistry has received special attention mainly by the organic chemistry community. The interest in organotrifluoroborate compounds is due to their great versatility in some reactions, i.e., metal-catalyzed reactions. This review describes developments since the organotrifluoroborates synthesis until their applications in organic chemistry and covers the literature published in 1995–2006.

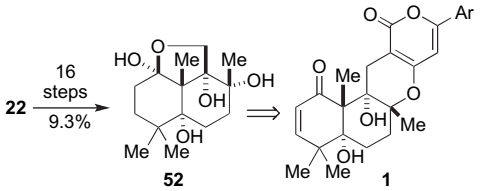
## ARTICLES





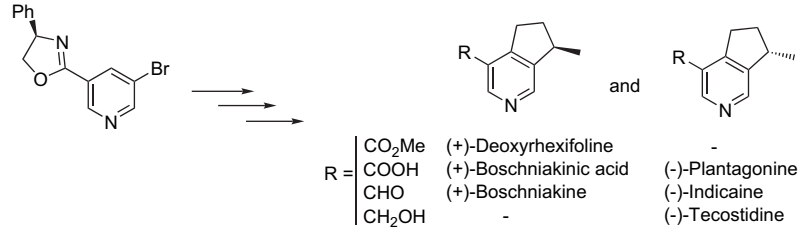


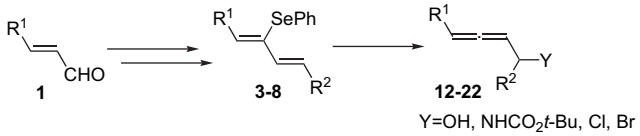



Approaches to the synthesis of the important acetylcholinesterase inhibitor, arisugacin A, are described.

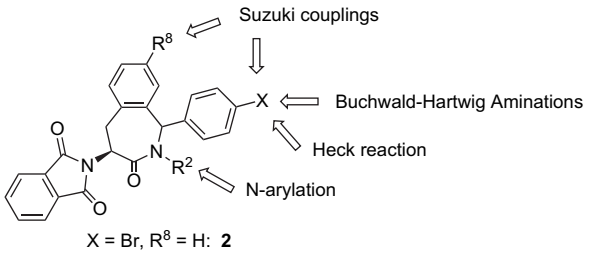


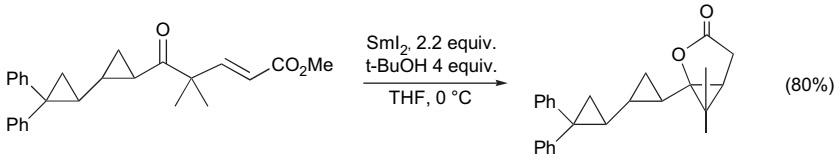




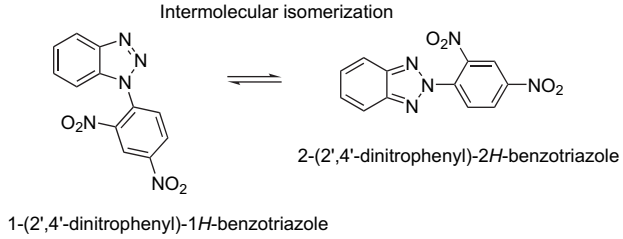


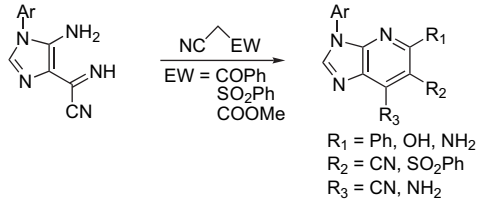



Cyclisation takes place without competitive ring opening of the 2′,2′-diphenyl-bicyclopropyl radical probe.

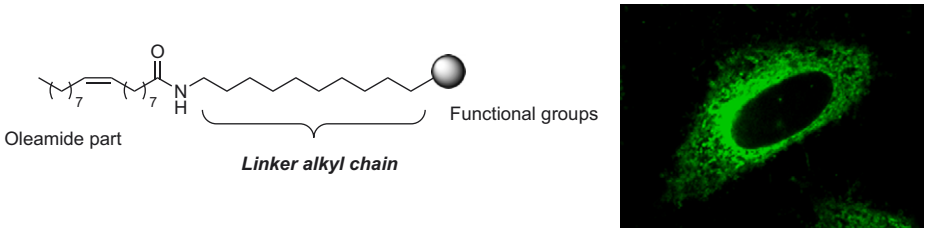


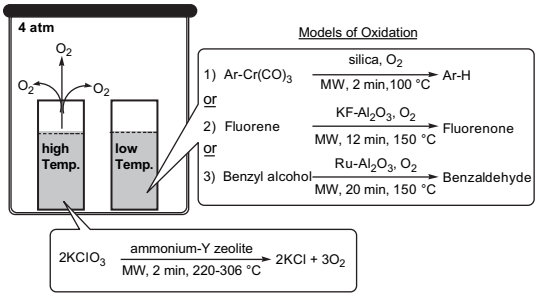




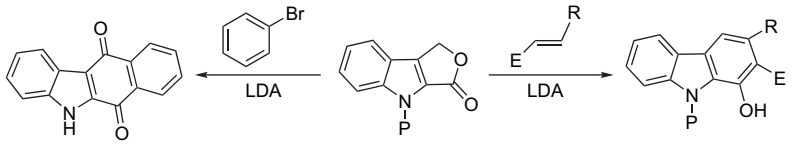





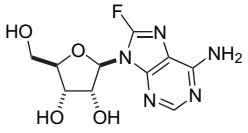







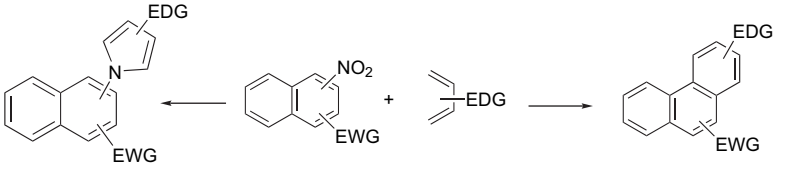



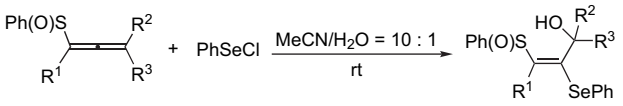


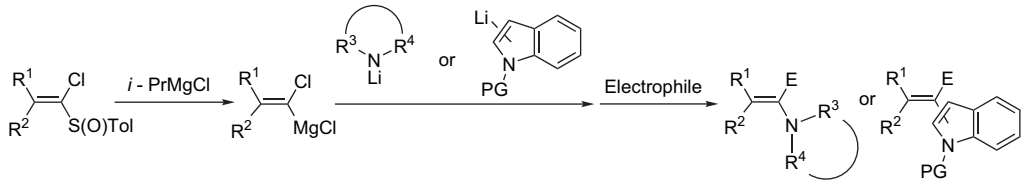
The first non-enzymatic synthesis of 8-fluoroadenosine is described. Its physicochemical properties including pH-dependent hydrolytic stability were examined in detail.



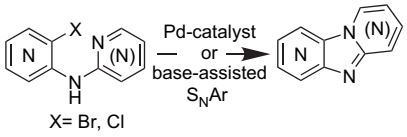




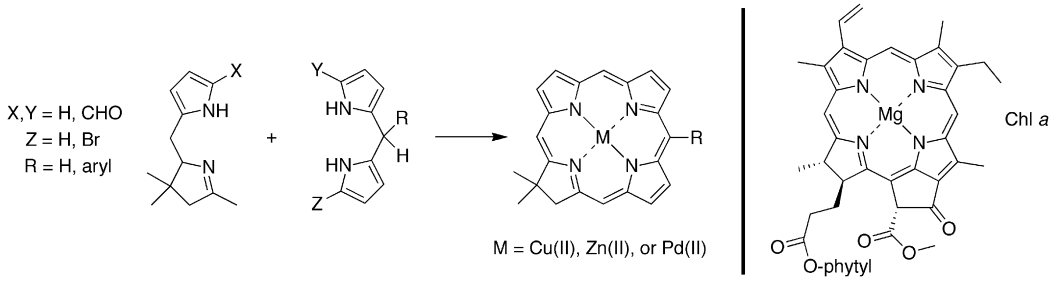


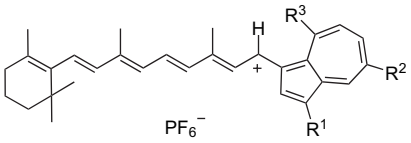


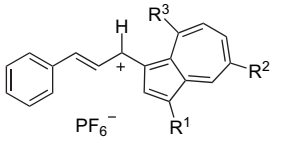



New synthetic routes provide access to metallochlorins bearing 0 or 1 meso-aryl substituents.



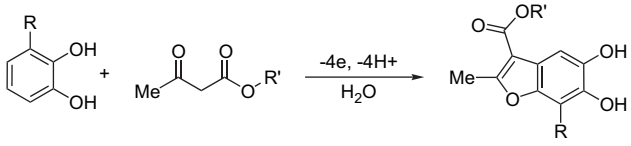

**3**: $R^1 = R^2 = R^3 = H$
**4**: $R^1 = R^3 = CH_3$, $R^2 = CH(CH_3)_2$



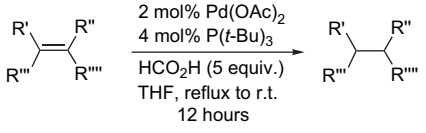

**5**: $R^1 = R^2 = R^3 = H$
**6**: $R^1 = R^3 = CH_3$, $R^2 = CH(CH_3)_2$

A facile preparation, molecular structures, and properties of the delocalized monocarbenium-ion compounds **3**–**6** are reported.








Yields varying from 25 to 98%

## OTHER CONTENTS



*Corresponding author
ⓘ+ Supplementary data available via ScienceDirect

## COVER

A three-component coupling between organozinc reagents, aldehydes and *N*-substituted piperazine derivatives allows the expedient synthesis of functionalized nitrogen-containing compounds in moderate to excellent yields. *Tetrahedron* **2007**, *63*, 3672–3681.

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