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Tetrahedron Letters

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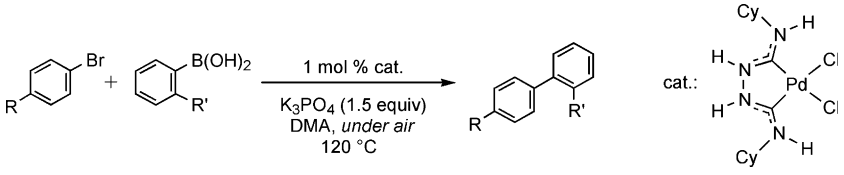
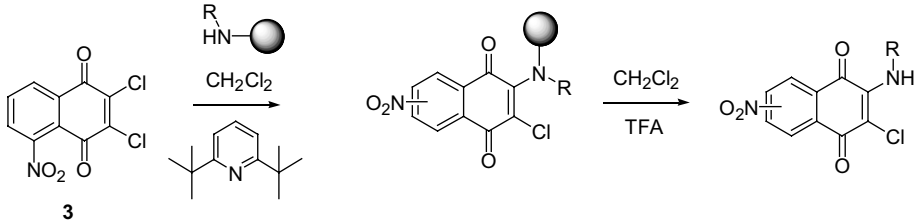
Contents

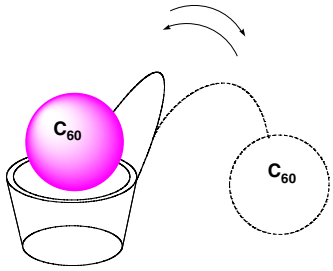
COMMUNICATIONS



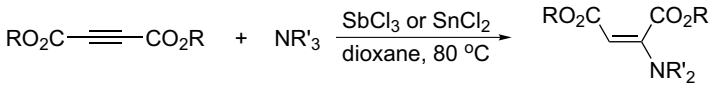


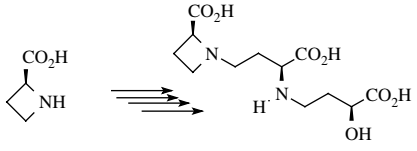
3

Resin-bound amines react with quinone **3** to give red beads; cleavage from the primary amine resins RAM, PAL, and MBHA and from secondary amines derived from FDMP and Wang, affords the title compounds in high yields and purities.

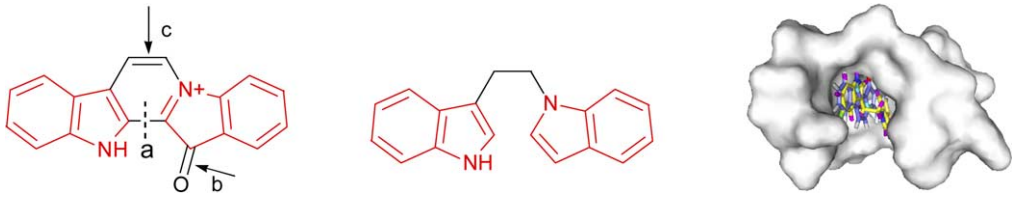


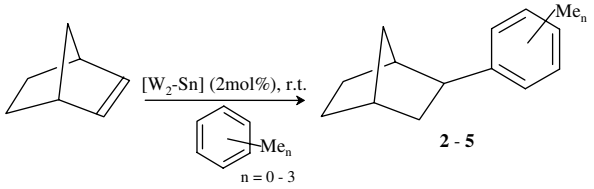
C_{60}-linked calix[5]arenes were synthesized. Their self-inclusion behaviors were investigated by thermodynamic studies, which provided a better understanding of the complexation process.



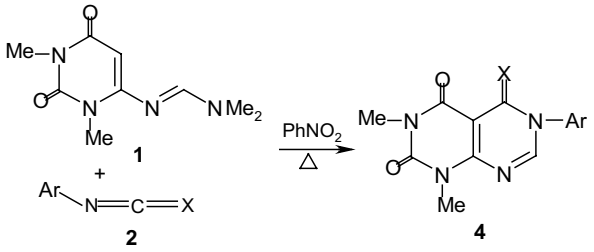


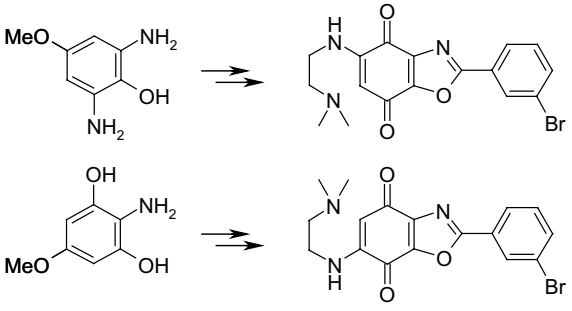
A short and practical synthesis of 2′-deoxymugineic acid is reported.

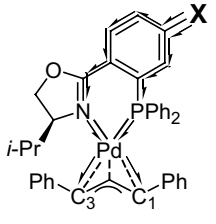


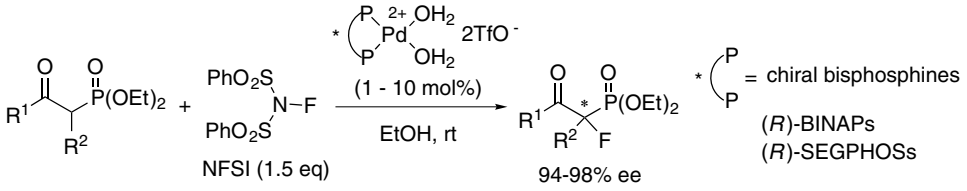


The tungsten(II) carbonyl compound $(CO)_4W(\mu\text{-}Cl)_3W(SnCl_3)(CO)_3$ has been found to be a very effective catalyst for the hydroarylation of bicyclo[2.2.1]hept-2-ene conducted in arene solution at room temperature. Norbornene adducts with benzene, toluene, *para*-xylene, and mesitylene have been isolated.

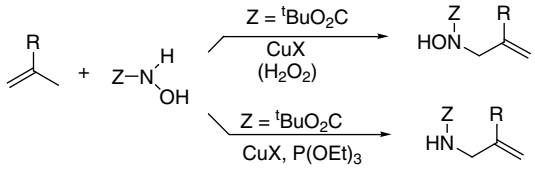




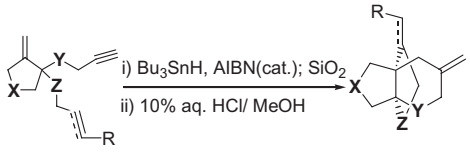




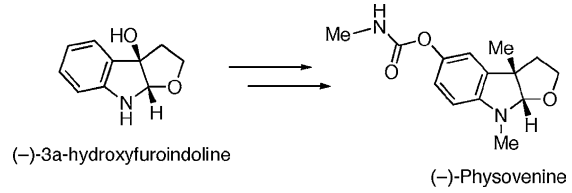
A highly enantioselective fluorination of β-ketophosphonates was developed using a catalytic amount of chiral Pd complexes.



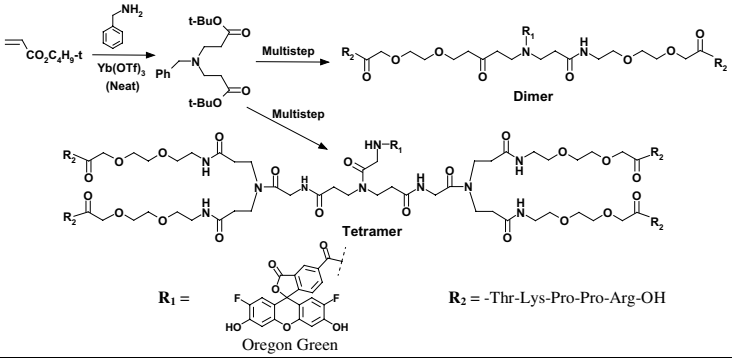
Olefins react regioselectively with Boc-NHOH in the presence of Cu(I,II) salts to produce allyl-N(OH)(Boc) derivatives; yields and rates are dramatically improved by the addition of H_2O_2. The corresponding allylamine derivatives, allyl-NH(Boc), are produced selectively from Boc-NHOH/olefin with $CuBr/P(OEt)_3$.

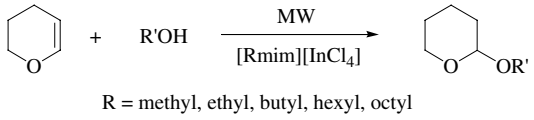


A facile and versatile tandem radical cyclization route to propellanes from dieneyne compounds was developed and was applied to the total synthesis of modhephene.



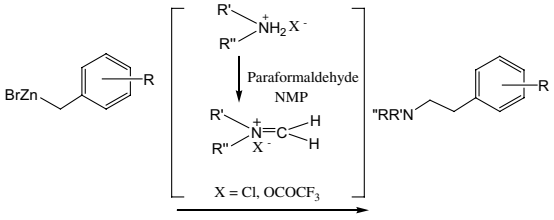
Total synthesis of (−)-physovenine has been achieved in a concise manner starting from optically active (−)-3a-hydroxyfuroindoline.

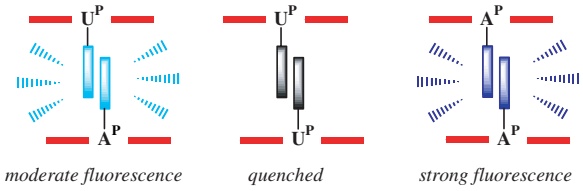


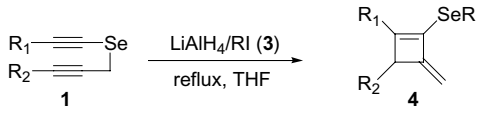


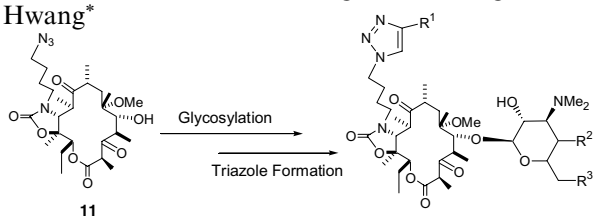
R = methyl, ethyl, butyl, hexyl, octyl

A MW-assisted direct synthesis of imidazolium-based tetrachloroindate has been developed, which finds useful application in a MW-assisted tetrahydropyranylation of alcohols that proceeds expeditiously thus shortening the reaction time and eliminating the use of volatile organic solvents when compared to the conventional methods.

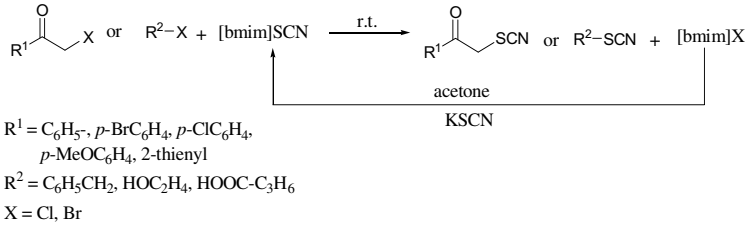


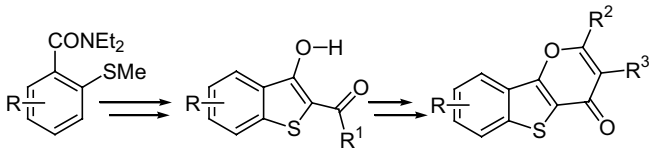


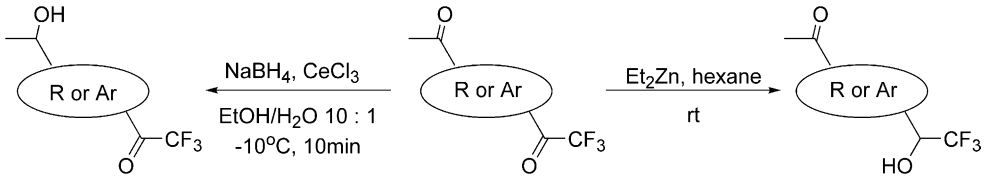


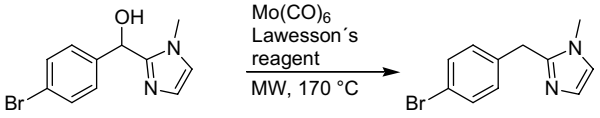


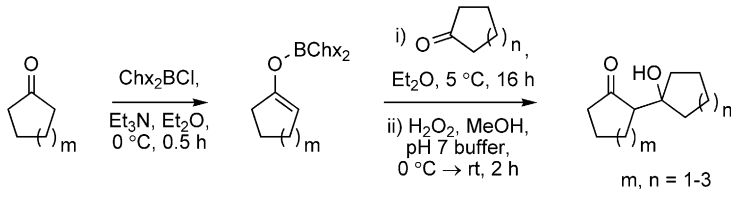
A new and efficient route to a ketolide aglycon served as a basis for the unprecedented 5-*O*-glyco-modification of ketolide antibiotics. Combined with an effective copper-catalyzed triazole-forming reaction a series of novel and potent ketolide antibiotics were synthesized.

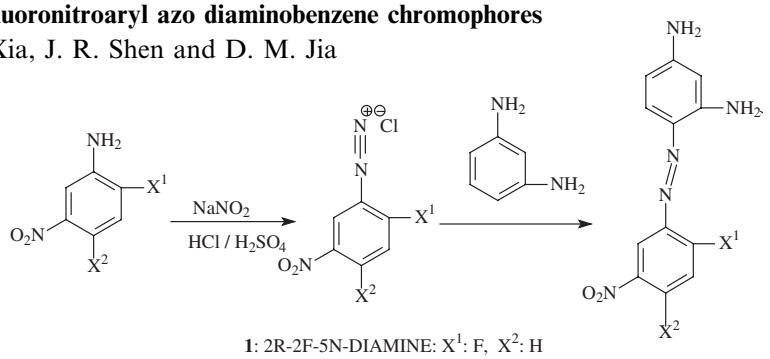












1: 2R-2F-5N-DIAMINE: X^1: F, X^2: H
2: 2R-4F-3N-DIAMINE: X^1: H, X^2: F
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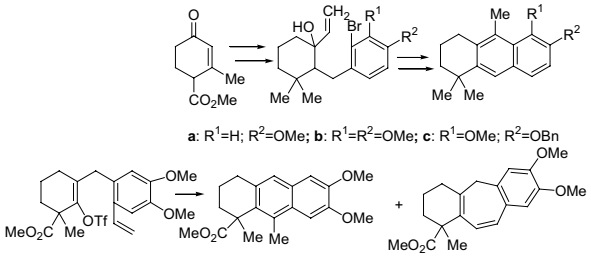
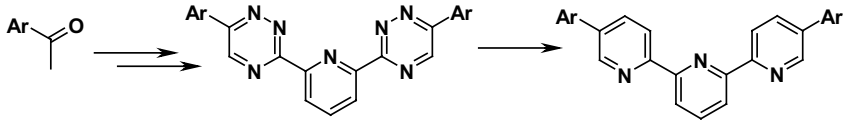
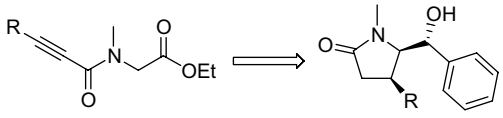
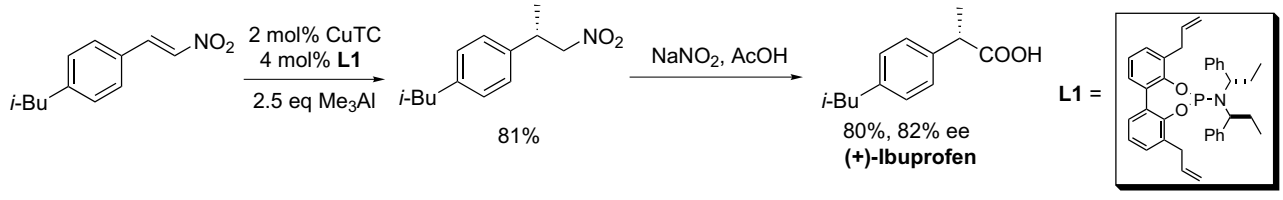
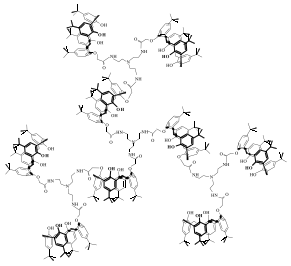


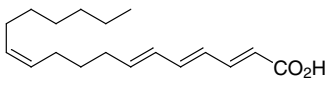


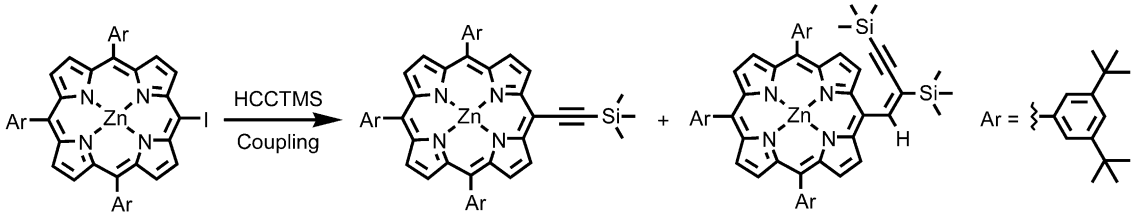


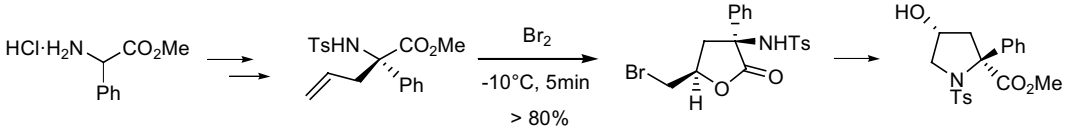


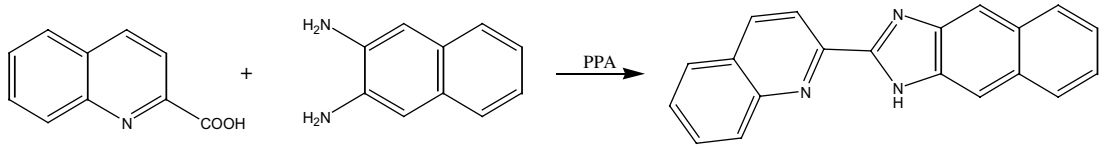


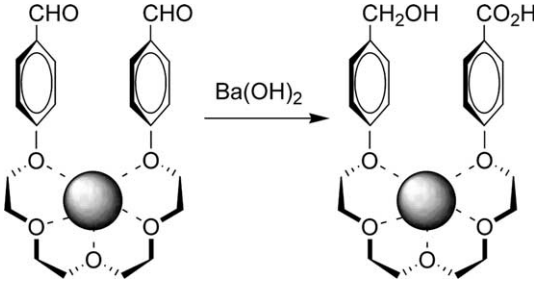
A calix[4]-dendrimer as a second generation (G2) of calixdendrimers have been synthesized by divergent and convergent synthesis via amidation reactions.











OTHER CONTENTS

*Corresponding author
ⓘ+ Supplementary data available via ScienceDirect

COVER

Star-shaped hexa-*peri*-hexabenzocoronene (HBC) substituted by six perylenecarboxymonoimide (PMI) units (see picture) was synthesized by six-fold Diels–Alder cycloaddition reactions. Fast energy transfer from the HBC at the core to PMIs at the periphery was observed by fluorescence measurements. *Tetrahedron Letters* **2005**, *46*, 1565–1568.

Indexed/Abstracted in: AGRICOLA, Beilstein, BIOSIS Previews, CAB Abstracts, Chemical Abstracts, Chemical Engineering and Biotechnology Abstracts, Current Biotechnology Abstracts, Current Contents: Life Sciences, Current Contents: Physical, Chemical and Earth Sciences, Current Contents Search, Derwent Drug File, Ei Compendex, EMBASE/Excerpta Medica, Medline, PASCAL, Research Alert, Science Citation Index, SciSearch

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