Contents lists available at ScienceDirect

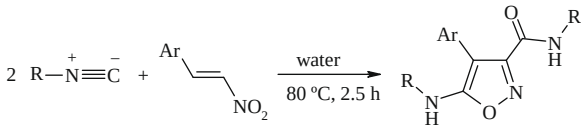
Tetrahedron Letters

journal homepage: www.elsevier.com/locate/tetlet

# Tetrahedron Letters Vol. 50, No. 52, 2009

# Contents

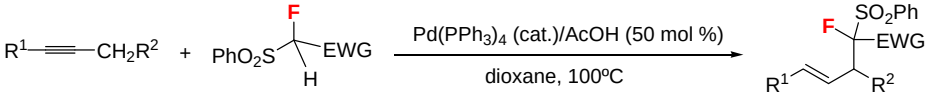
## COMMUNICATIONS







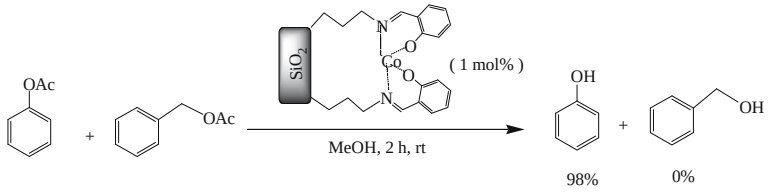


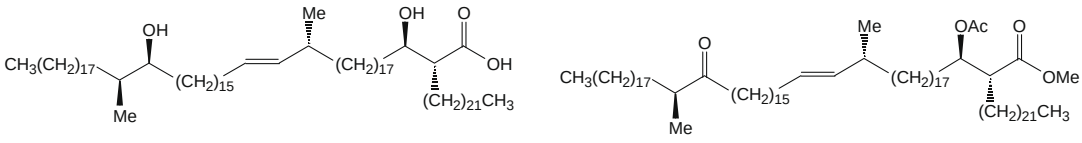



($R^1$ = aryl; $R^2$ = H, $OCH_3$, OBn; EWG = $PhSO_2$, COPh)

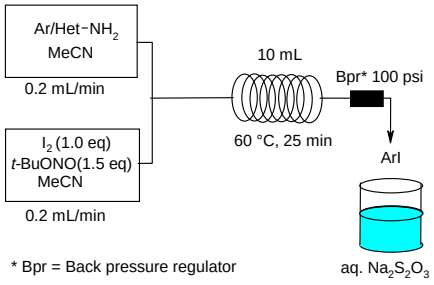
A facile palladium-catalyzed fluoroalkylation of alkynes with monofluorinated sulfones in the presence of acetic acid has been achieved. By using different α-substituted fluoro(phenylsulfonyl)methane derivatives, a variety of allylated monofluoromethyl compounds were obtained with high regio- and stereoselectivity.



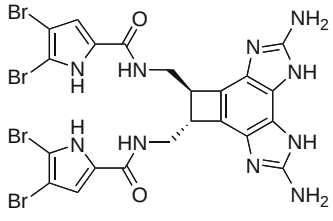






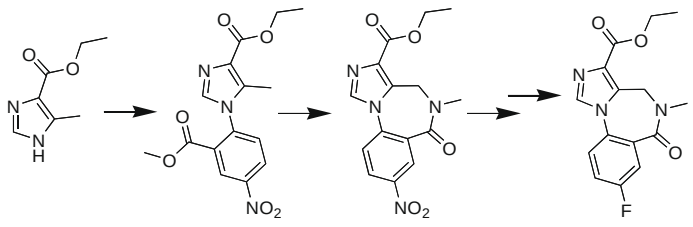



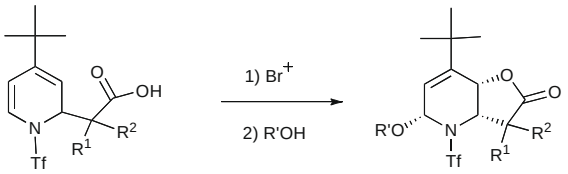



benzosceptrin C

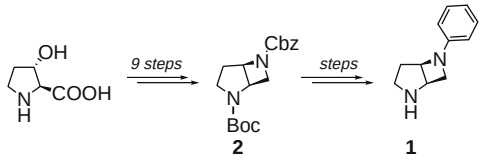




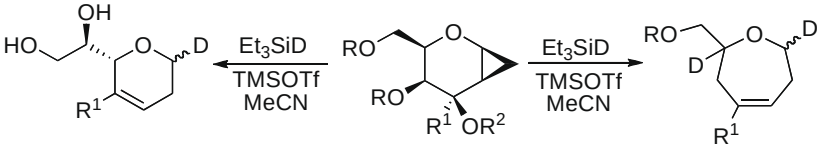



Whereas alkylacetic acid-substituted 1,4-dihydropyridines gave upon electrophile-induced lactonization reactions, regio- and stereoselectively δ-lactones, the corresponding 1,2-dihydropyridines led, depending on the reaction conditions, to multisite lactonization products, γ- and δ-lactones.

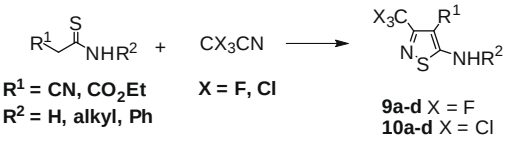


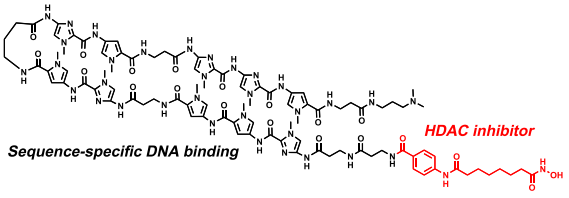




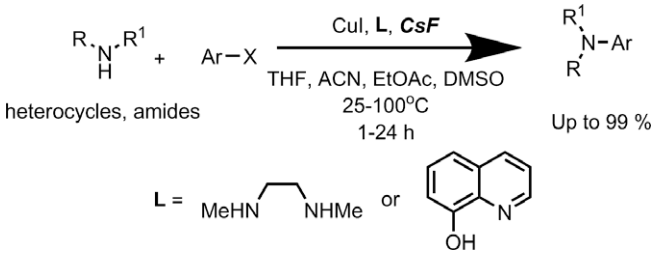





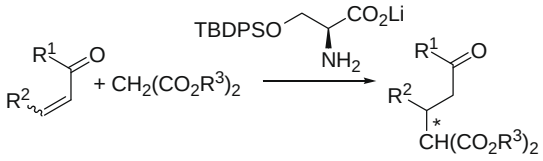




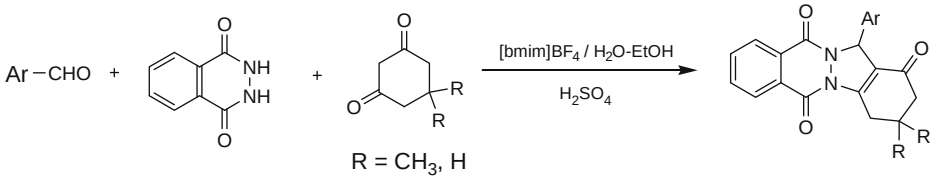

Cesium fluoride as the base efficiently enables the copper-catalyzed N-arylation of amides and nitrogen heterocycles.



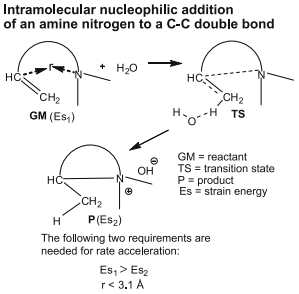



Siloxy amino acid lithium salt, *O-tert*-butyldiphenylsilyl L-serine lithium salt, was found to be an effective catalyst for the asymmetric Michael addition reaction of malonates to enones.

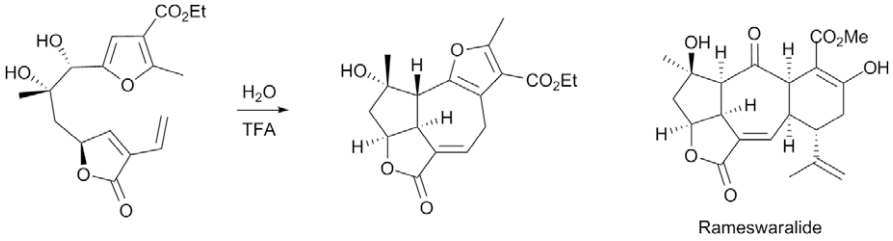




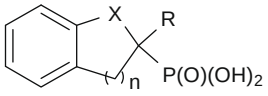

Efficient and environmentally benign protocols for the synthesis of 2*H*-indazolo[2,1-*b*] phthalazine-triones are described.





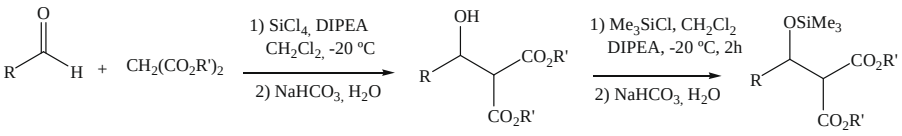





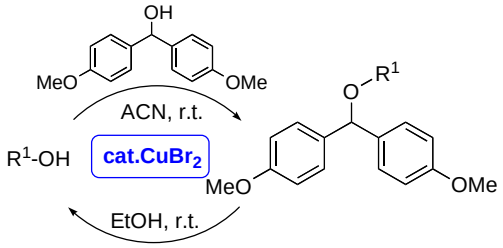




X= $CH_2$, C=O
R= H, $CO_2H$, $CO_2Et$
n= 1,2

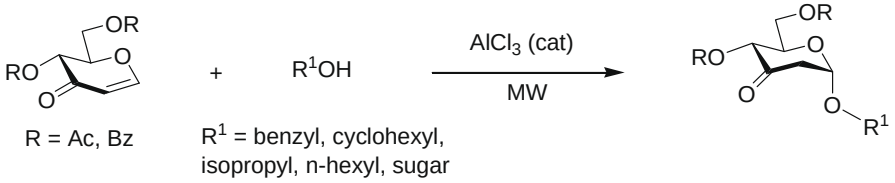




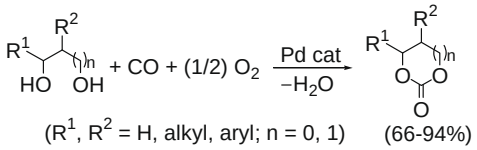

Good to high yields



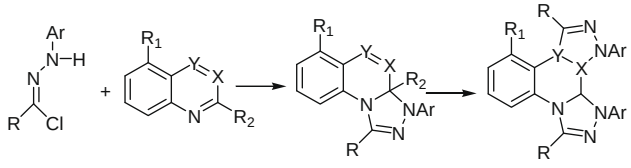


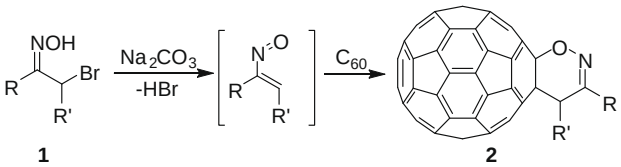




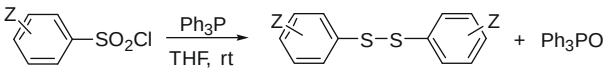

The reactivity of asymmetric benzo-condensed diazines in the 1,3-dipolar cycloaddition reactions with nitrilimines was investigated. The results demonstrated that, at variance with the symmetric quinoxaline, a certain grade of diastereoselectivity emerged.




1 2

A new type of stable $C_{60}$-fused dihydrooxazine derivatives was successfully prepared through the hetero-Diels–Alder reaction of $C_{60}$ with nitrosoalkenes generated in situ from the corresponding α-bromooxime by treatment with $Na_2CO_3$.

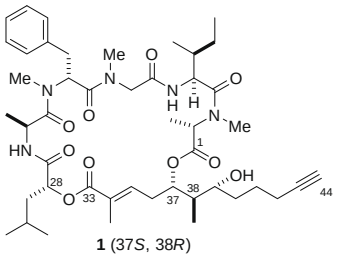





Z = Me, OMe, Br, CN, $NO_2$ etc

A facile synthesis of diaryl disulfides from arylsulfonyl chlorides in the presence of triphenylphosphine has been developed.

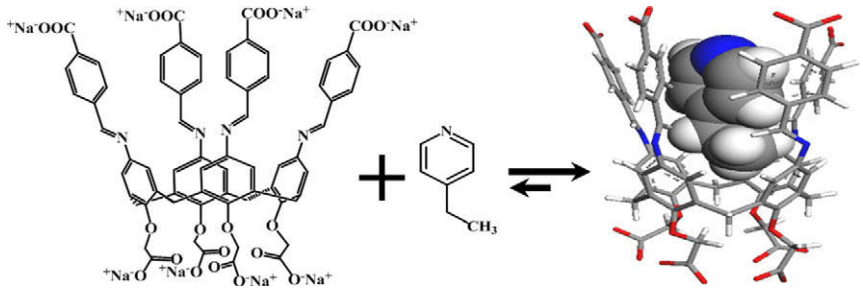


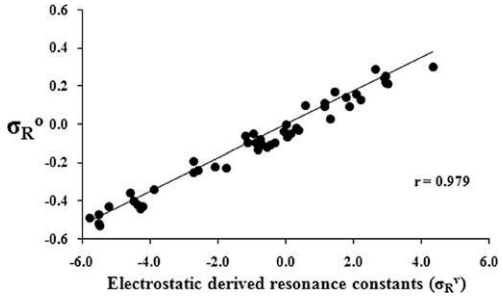



**1** (37*S*, 38*R*)

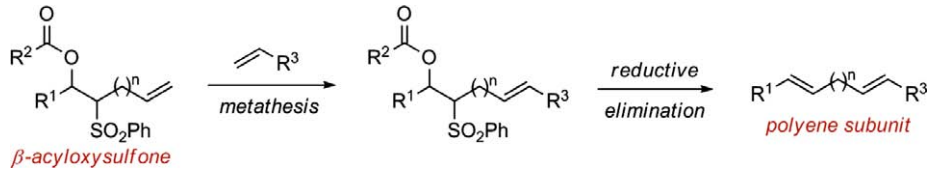
Four diastereomers of palau'amide (**1**–**4**), a cytotoxic cyclodepsipeptide, were synthesized. The $^1$H NMR spectrum of **1** was identical to that of natural palau'amide. This established the complete stereostructure of palau'amide.



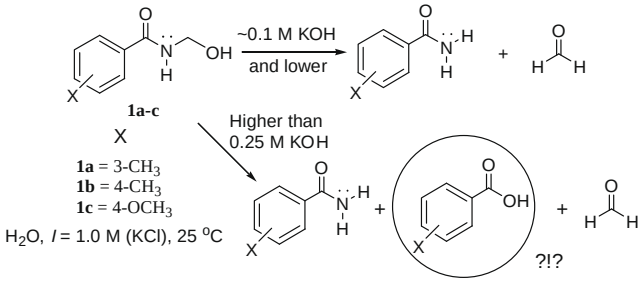




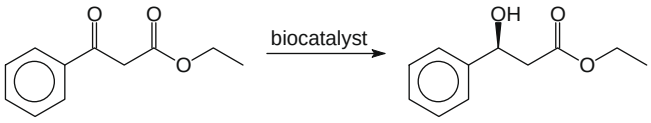


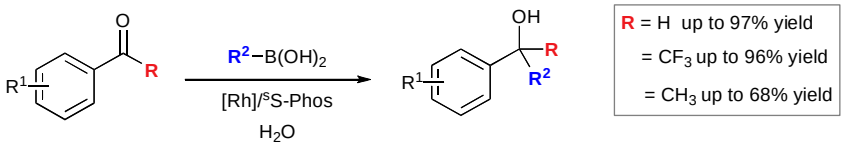





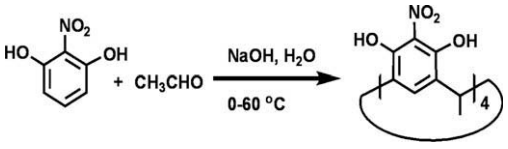




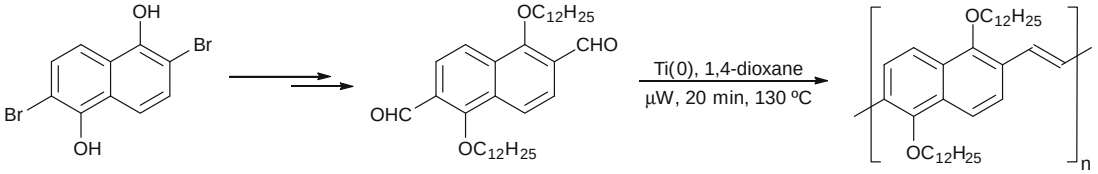

The rhodium-catalysed 1,2-addition of arylboronic acids to aryl aldehydes and ketones has been accomplished in high yield using sulfonated S-Phos, a water-soluble biaryl phosphine ligand which allows for catalyst recycling.



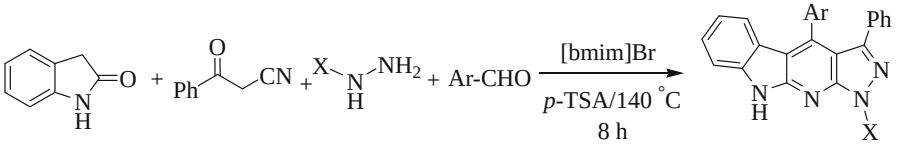


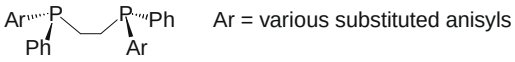

A unique and unprecedented *rcct-boat* conformation of tetranitro-$C_1$-resorcin[4]arene was isolated from the reaction of 2-nitroresorcinol and acetaldehyde.



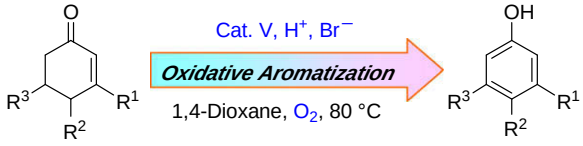




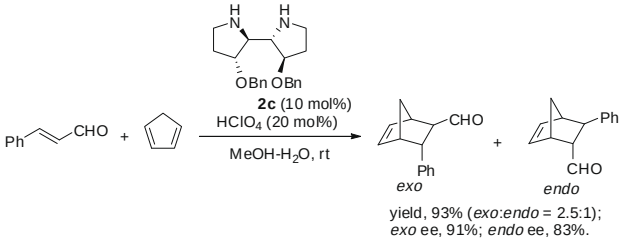




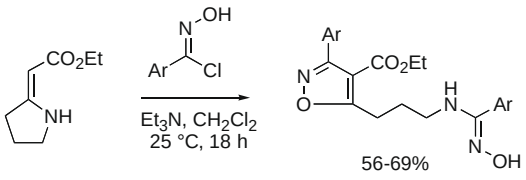




An efficient catalytic oxidative aromatization of 2-cyclohexenones was achieved by using a commercially available inexpensive ligand-free vanadium catalyst, an acid, and a bromide source under atmospheric oxygen.








An efficient method for the preparation of γ-hydroxy-α-nitroolefins from α,β-epoxyketoximes has been developed using IBX.

*Corresponding author
Supplementary data available via ScienceDirect

Abstracted/indexed 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. Also covered in the abstract and citation database SCOPUS®. Full text available on ScienceDirect®

ELSEVIER

Available online at www.sciencedirect.com
ScienceDirect

ISSN 0040-4039