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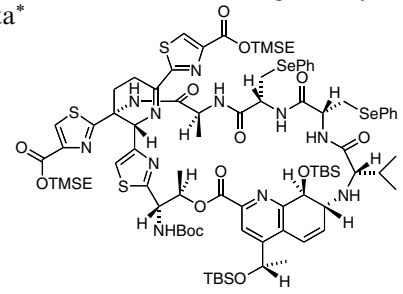
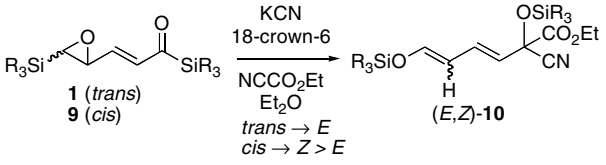
Tetrahedron Letters

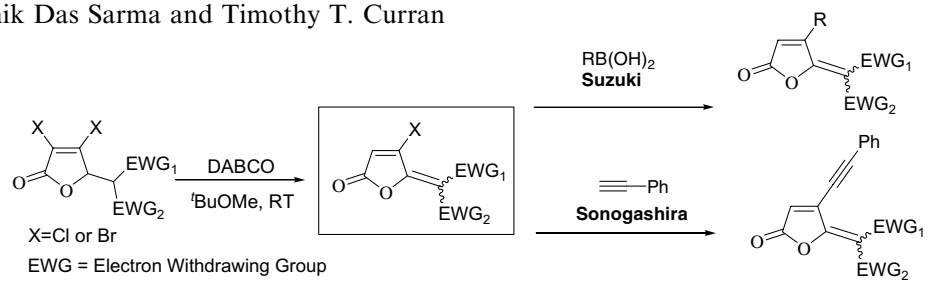
Tetrahedron Letters Vol. 46, No. 38, 2005

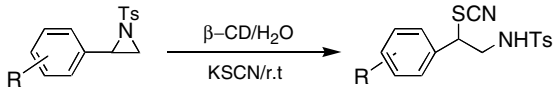
Contents

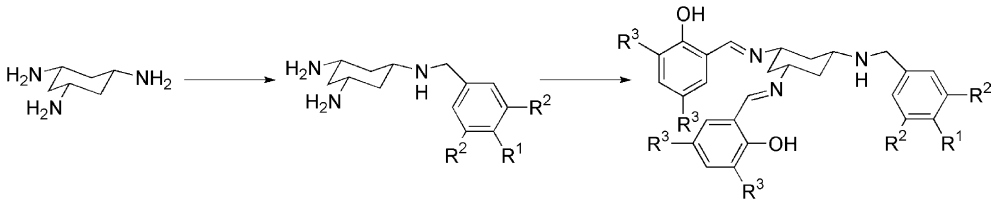
COMMUNICATIONS



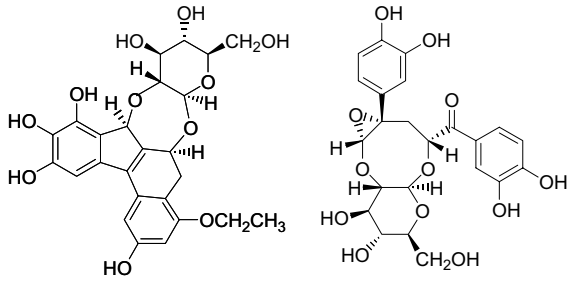




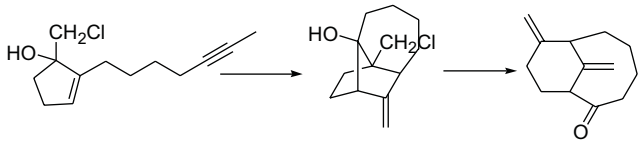


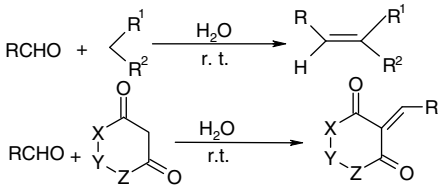


A general route is reported for the preparation of monoamine-diimine-derivatives of *cis*,*cis*-1,3,5-triaminocyclohexane.

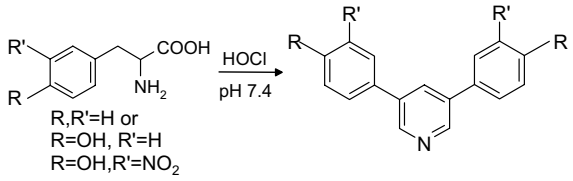


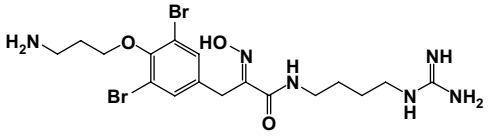
1 **2**

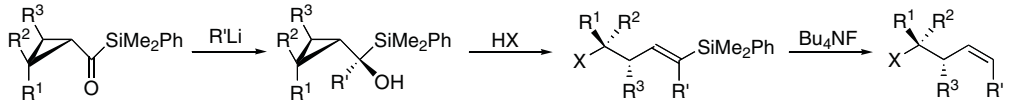


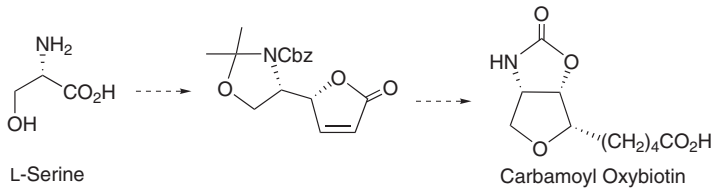


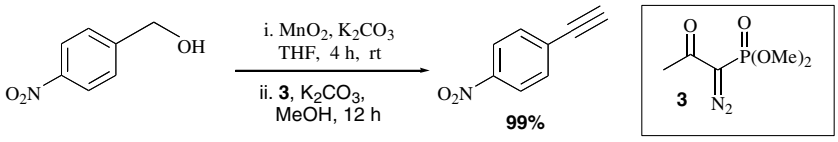
Knoevenagel condensation of various aromatic and heteroaromatic aldehydes with active methylene compounds like malononitrile, ethyl cyanoacetamide, ethyl cyanoacetate, barbituric acids, Meldrum's acid, dimedone and pyrazolone proceeds smoothly with stirring in aqueous medium. The reactions occur at room temperature giving excellent yields of the products. The work-up procedure is very simple and the products do not require further purification.

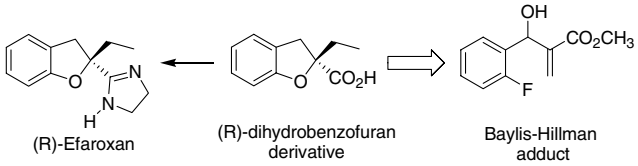




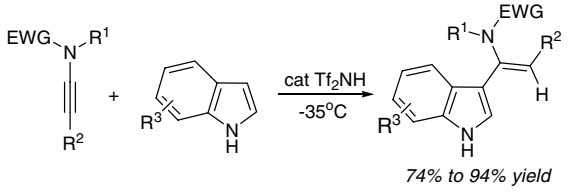


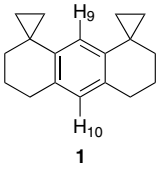






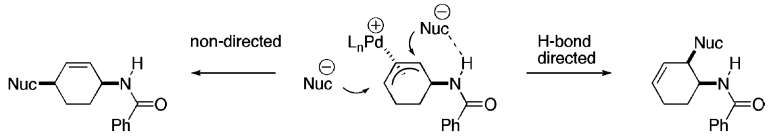
A new approach for the asymmetric synthesis of a dihydrobenzofuran derivative, used as key intermediate for the synthesis of the drug (+)-efaroxan, is described.

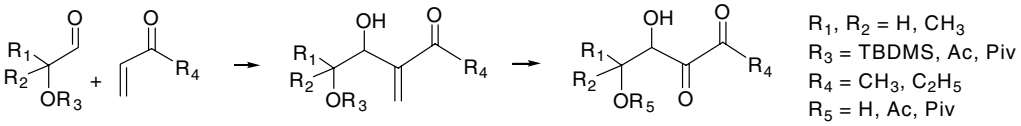


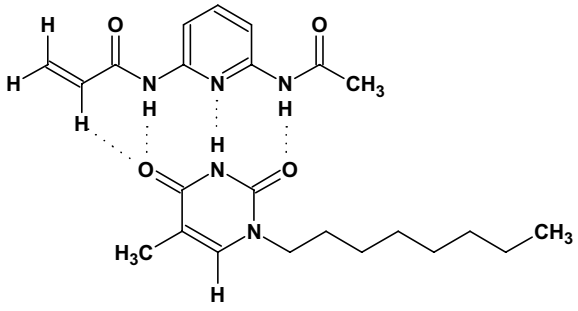


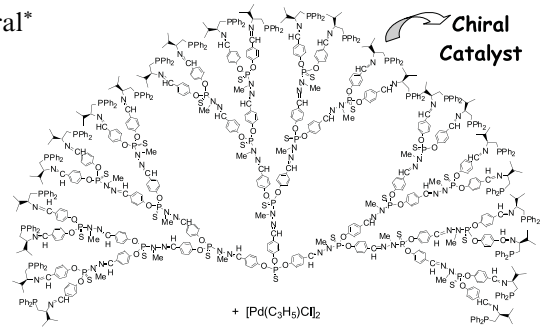
1

Compound **1** was synthesized in four steps from 1,3-dibromobenzene. The X-ray crystal structure of **1** shows that H_9 is located approximately 2.6 Å from the centroids of each of the flanking cyclopropane rings, and its proton NMR resonance falls 0.84 ppm upfield from the resonance of the otherwise chemically similar H_{10}.

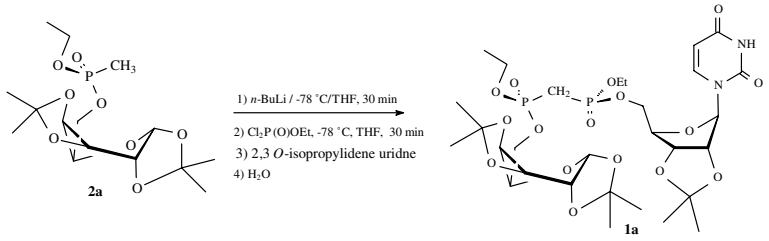


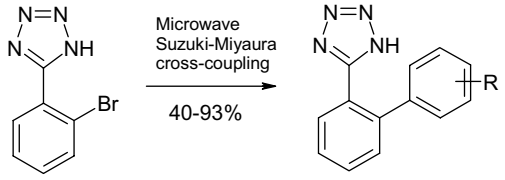






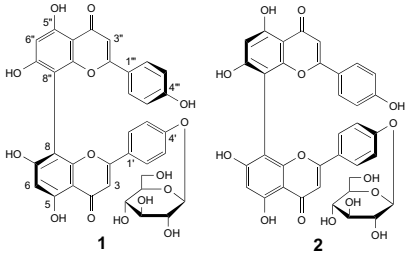
In situ complexation of a dendrimer possessing 24 chiral iminophosphine end groups affords a [Pd]-catalyst usable for asymmetric allylic alkylations. This dendritic catalyst gives very good ee and can be easily recovered and reused twice with almost the same efficiency.

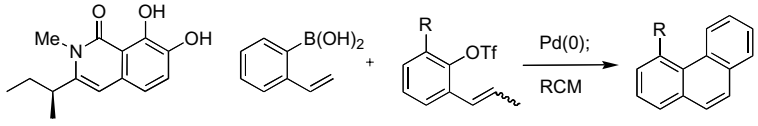




We describe an efficient protocol for the Suzuki–Miyaura synthesis of *ortho*-biphenyltetrazoles from non-protected 2-bromophenyltetrazole and arylboronic acids.

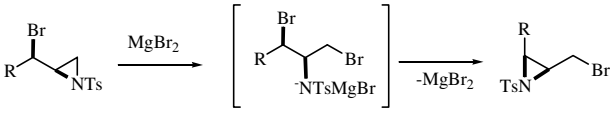
A pair of new atropisomers, (*M*)- and (*P*)-cupressuflavone 4′-*O*-β-D-glucoside were isolated from *Juniperus Communis* var. *depressa.* Absolute structures and axial configurations were determined using 2D NMR and circular dichroism.

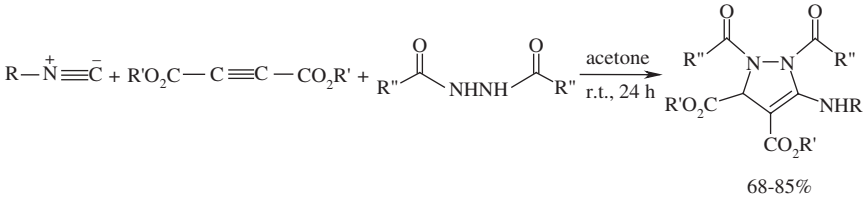


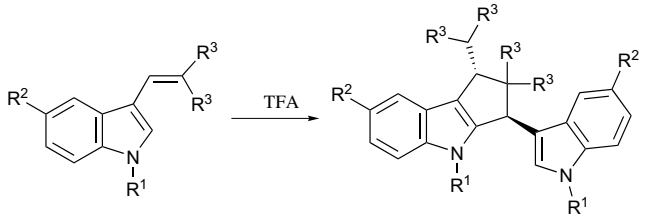


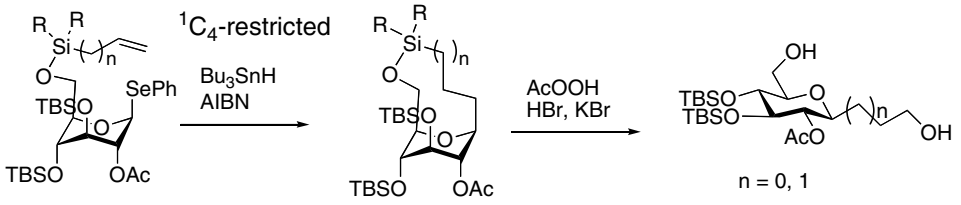
Sch 56036 isoquinolinone unit

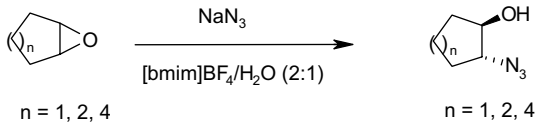
The isoquinolinone hemisphere of Sch 56036 has been prepared using a modified Pomeranz–Fritsch reaction and the synthesis of the phenanthrene core has been modelled via a Suzuki coupling and subsequent ring closing metathesis.

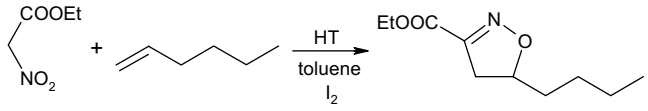




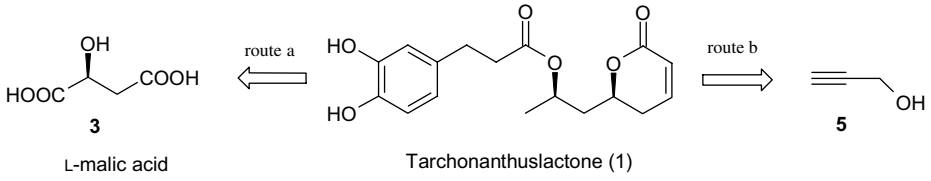


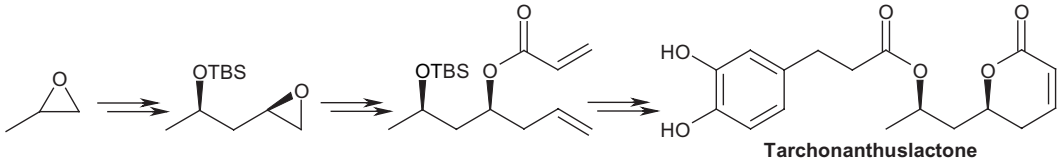


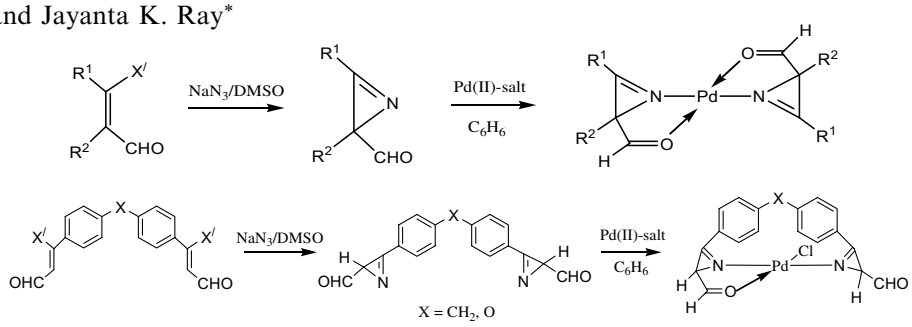


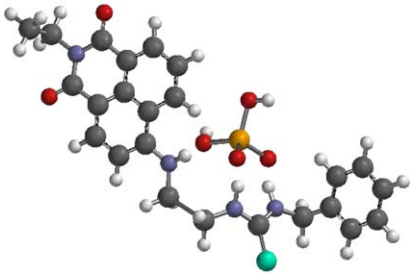


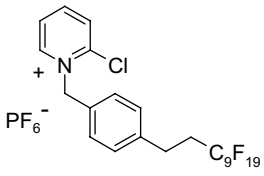
A new, synthetic method for the preparation of 5-substituted 4,5-dihydroisoxazoles starting from ethyl nitroacetate and alkenes in the presence of hydrotalcite is described.



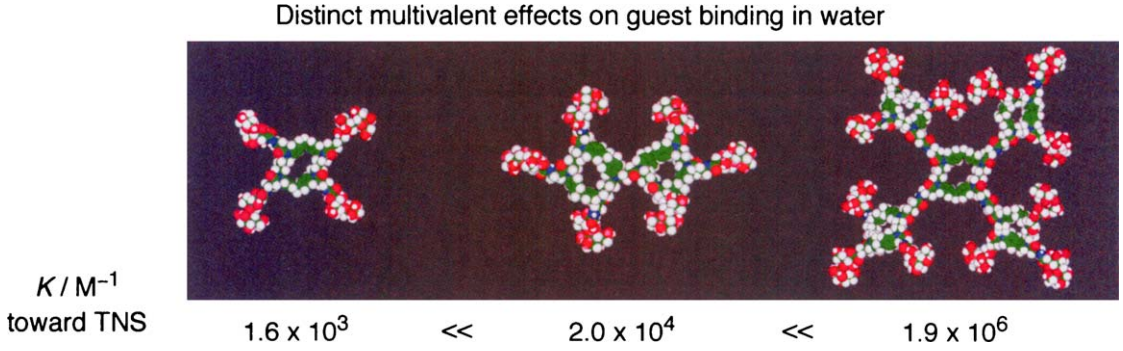








A new fluorous 2-chloropyridinium salt was prepared, and was applied in amide formation reactions.



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*Corresponding author
ⓘ+ Supplementary data available via ScienceDirect

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ISSN 0040-4039