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Tetrahedron Letters

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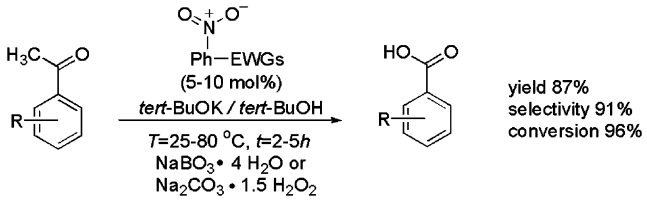
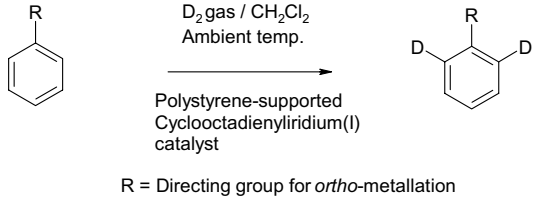
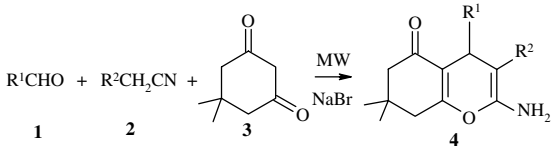
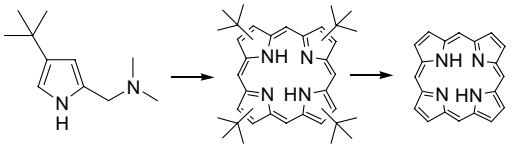
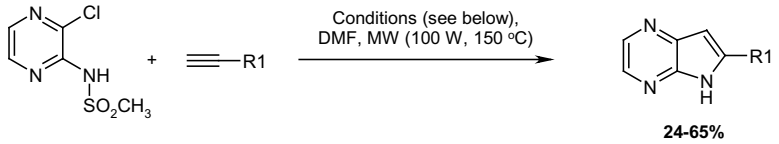
COMMUNICATIONS

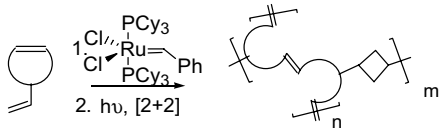


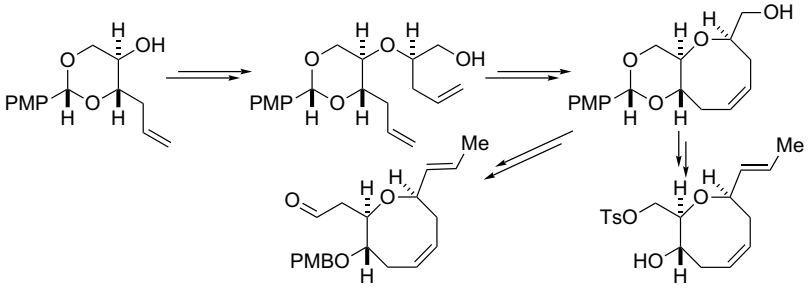


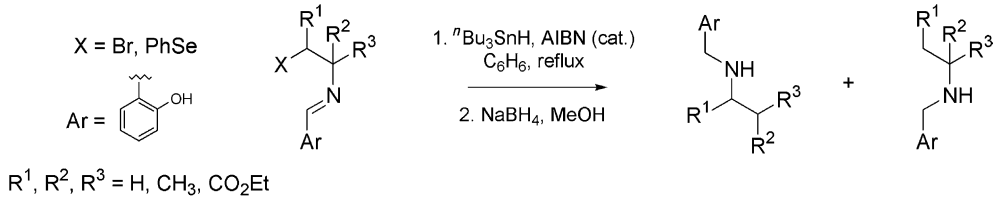


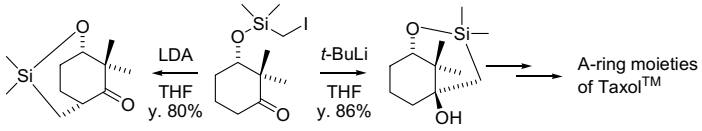


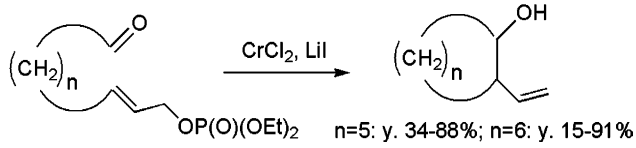


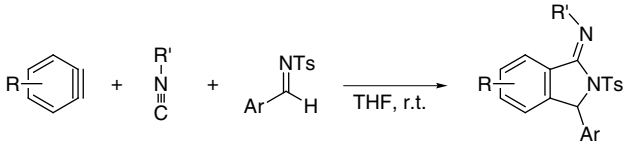


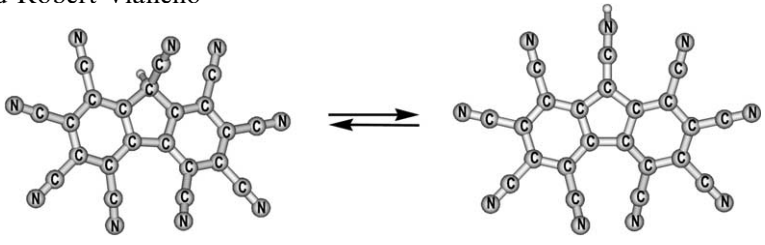




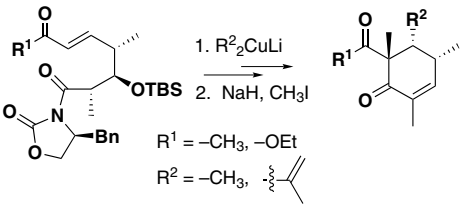




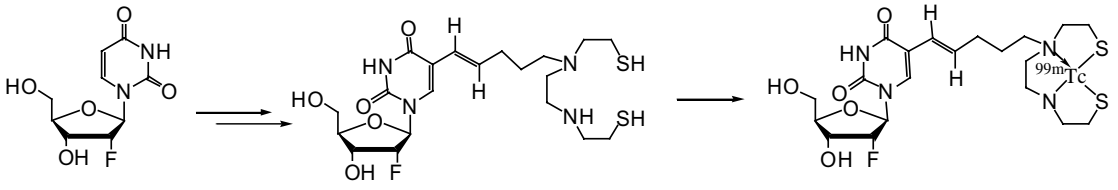


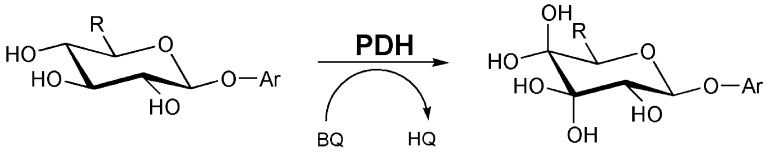


Nonacyanofluorene and its prototropic tautomer represent powerful neutral organic superacids both in the gas phase and in dimethylsulfoxide (DMSO), as revealed by the DFT-B3LYP calculations.

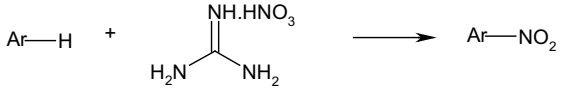


A tandem conjugate addition/cyclisation approach, that allows the synthesis of chiral highly substituted cyclohexanones and cyclohexenones, which is applicable to natural product syntheses has been developed.

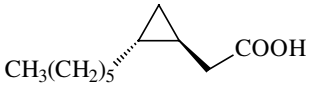


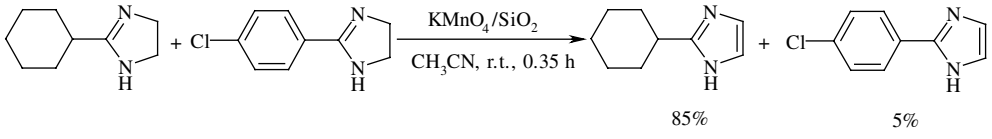


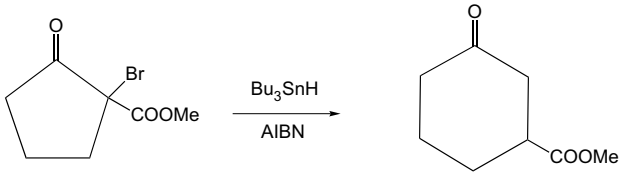
R = H or CH_2OH, Ar = Aryl
PDH pyranose dehydrogenase
BQ benzoquinone, HQ hydroquinone

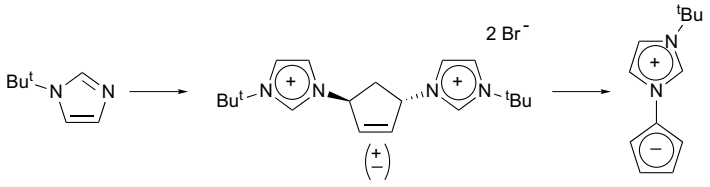


1

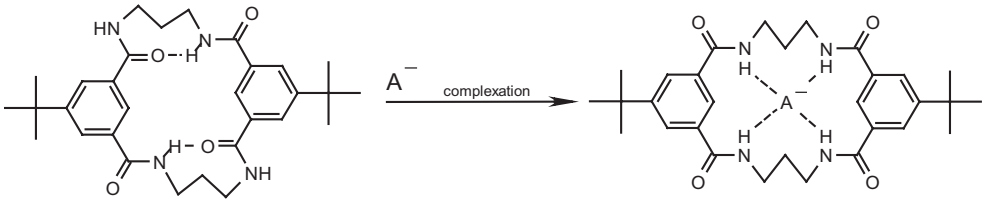


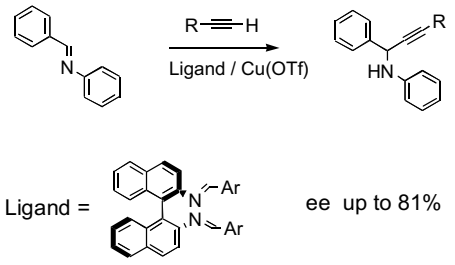


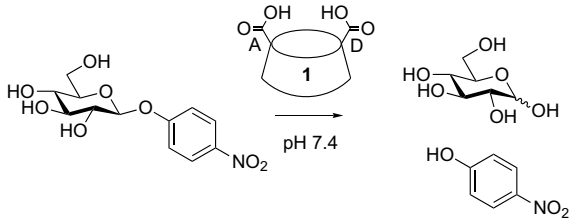




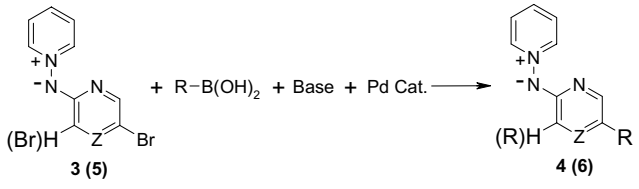
The first example of a zwitterionic cyclopentadienyl compound with a positively charged imidazolium ring directly attached to the Cp ring is prepared.



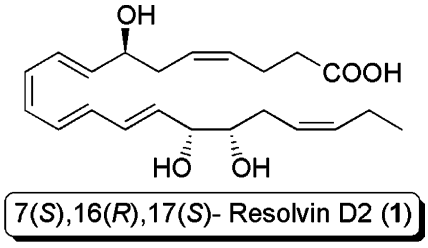




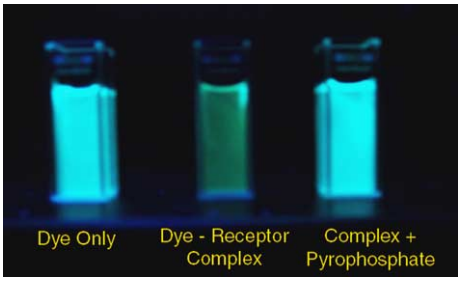
Normally enzyme catalysis is the prerogative of proteins. However the carbohydrate derivative **1** catalyzes the hydrolysis of aryl glycosides at neutral pH with a k_{cat}/k_{uncat} of up to 35 and with substrate selectivity.

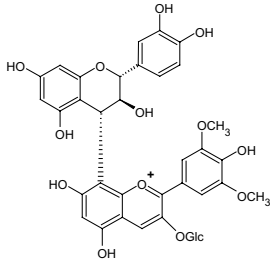


The Suzuki cross-coupling reaction takes place efficiently on bromoaminides **3** (**5**) employing Cs_2CO_3 as base and $Pd(PPh_3)_4$ as catalyst, yielding mono- and di-coupled products **4** (**6**).

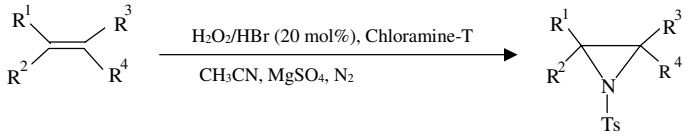


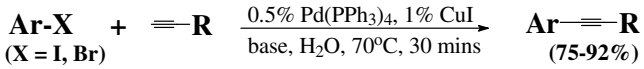
A total synthesis of a biological highly active lipid mediator derived from docosahexaenoic acid is described.

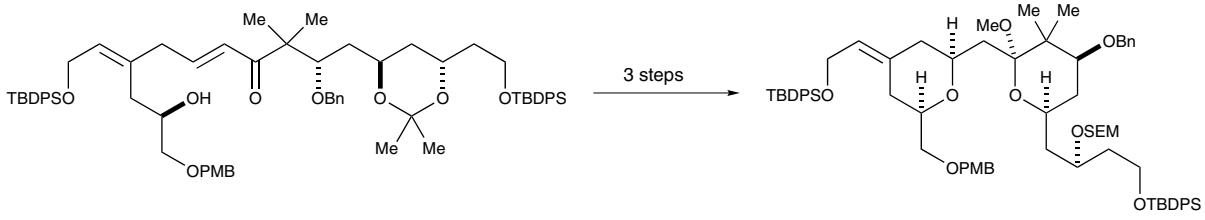


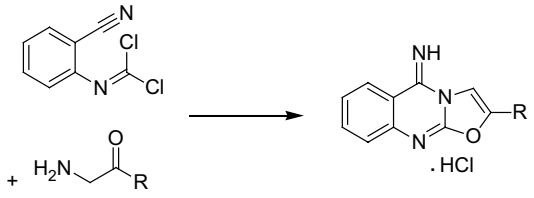


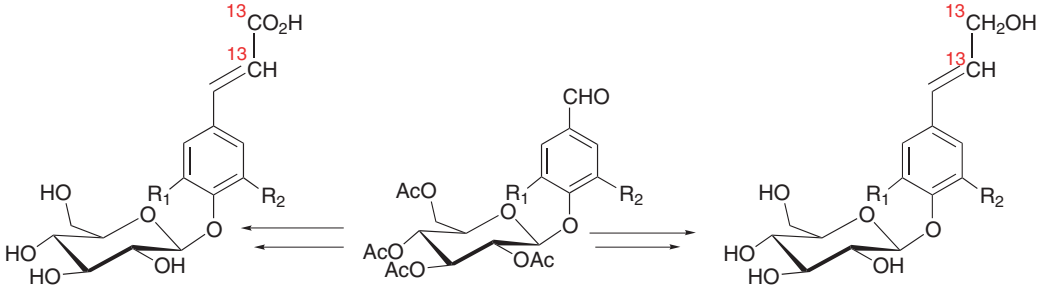
The structure and conformation of a directly linked catechin–malvidin 3-*O*-glucoside dimer were determined by spectroscopy NMR and its colour properties were studied.

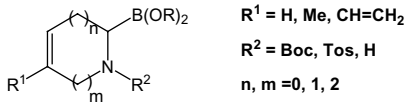


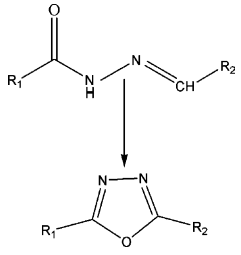




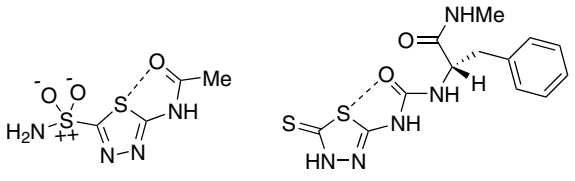








2,5-Disubstituted 1,3,4-oxadiazoles have been synthesized from the oxidation of 1-aroyl-2-arylidene hydrazine with potassium permanganate on the surface of solid mineral support as well as in the mixture of acetone and water under microwave irradiation.



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*Corresponding author
ⓘ+ Supplementary data available via ScienceDirect

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