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Tetrahedron Letters

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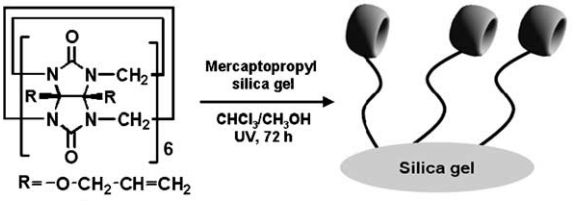
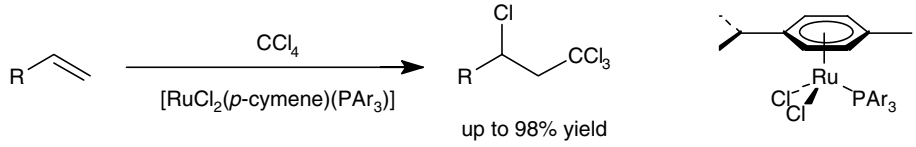
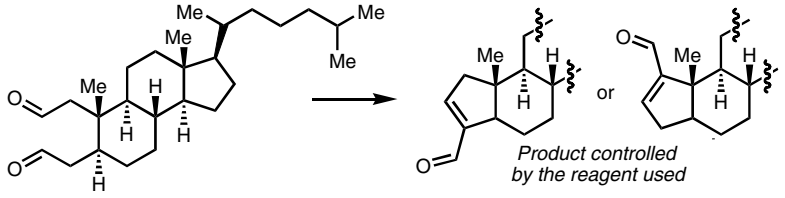
Contents

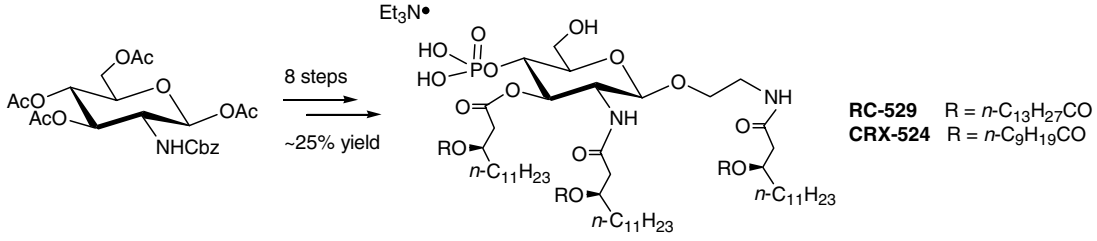
COMMUNICATIONS

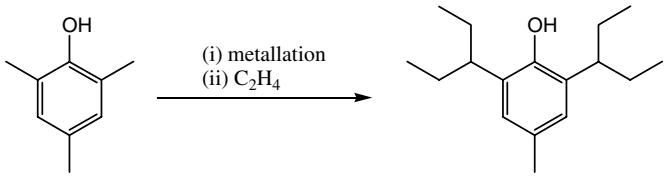


A cucurbit[6]uril anchored silica gel is synthesized via reaction of perallyloxycucurbit[6]uril and mercaptopropyl functionalized silica gel and fully characterized by various spectroscopic methods; the amount of accessible host molecules attached on silica surface is quantified by fluorescence spectroscopy using FITC-spermine as a guest molecule.

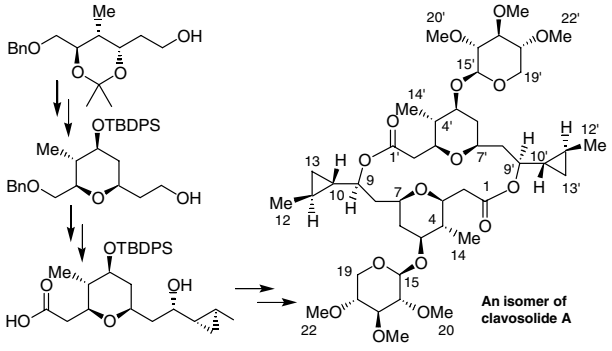


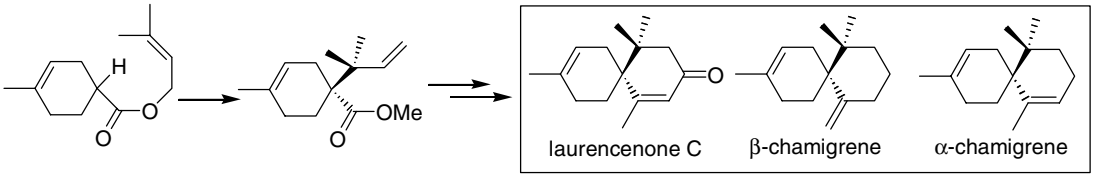


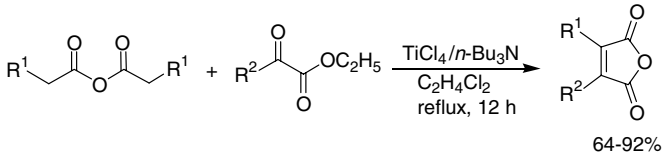


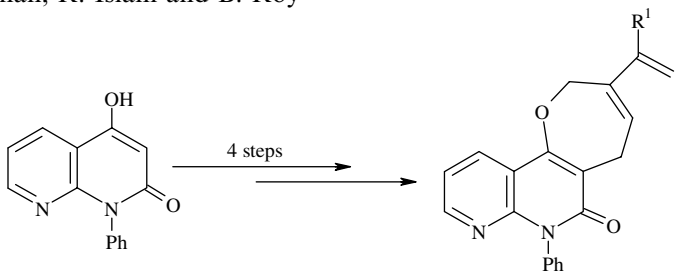


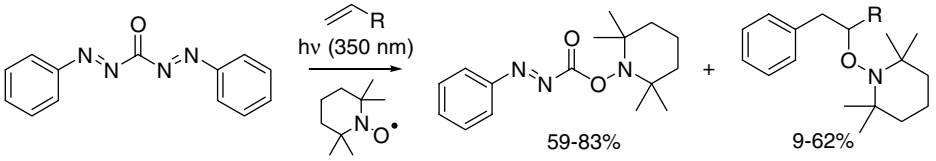
Methylphenols are converted in one pot to bulky, highly lipophilic homologues by the superbase catalysed addition of ethylene.

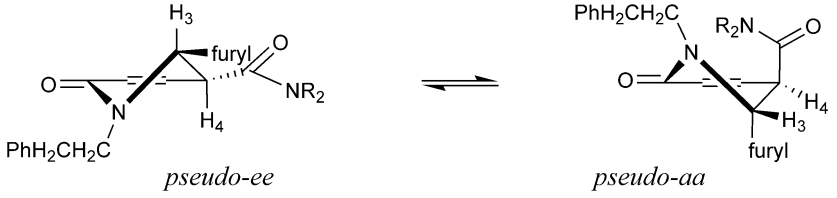


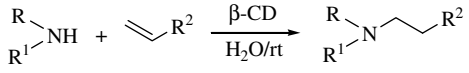


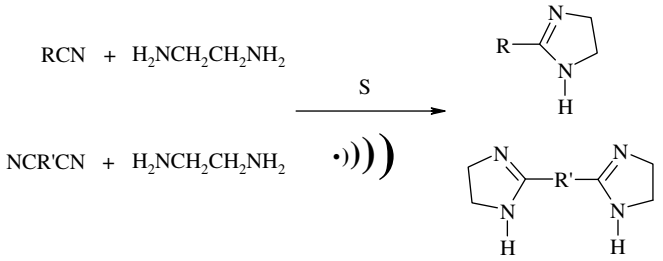




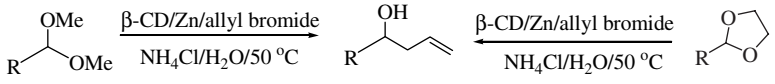


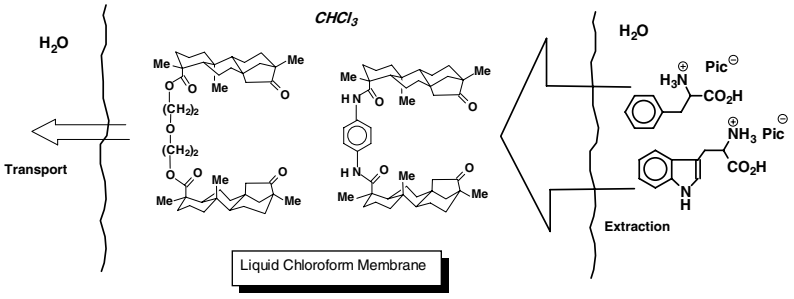


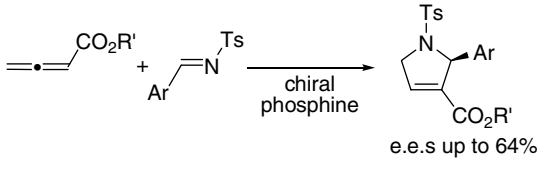


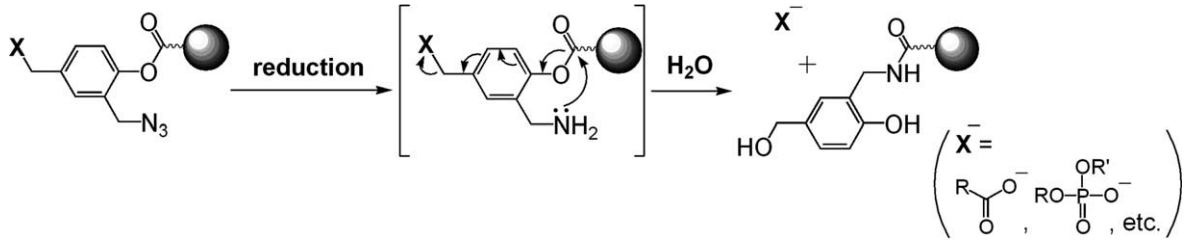


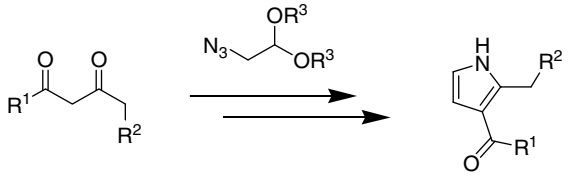
Rapid and efficient preparation of 2-imidazolines and bis-imidazolines by nucleophilic addition of EDA to nitriles in the presence of catalytic amounts of sulfur under ultrasonic irradiation is reported.

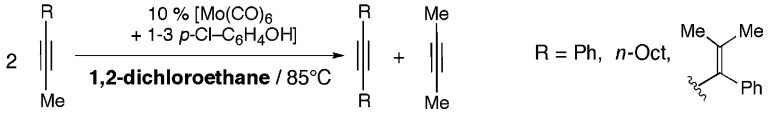




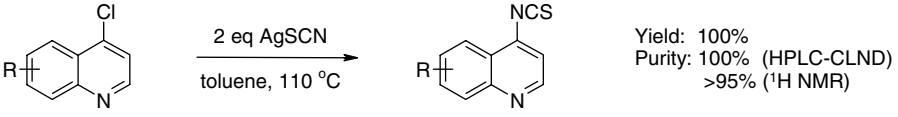


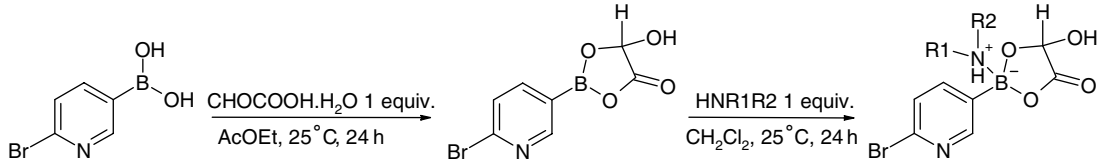




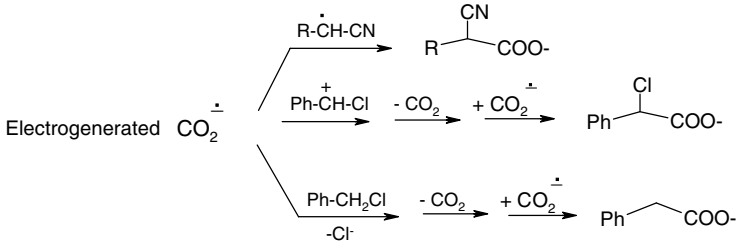


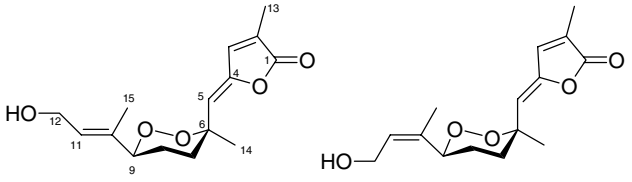
The use of 1,2-dichloroethane as a solvent of the classical Mortreux' catalytic system enables metathesis of alkyl-, vinyl-, or aryl-propynes under mild conditions through an extremely simple procedure.





This letter describes the reactivity of pyridinylboronic acids in the Petasis reaction.





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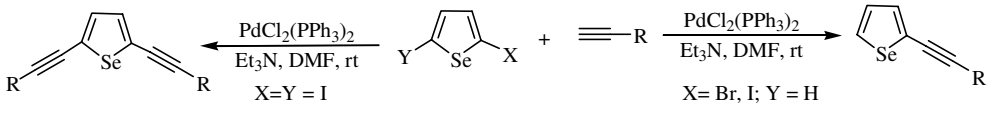
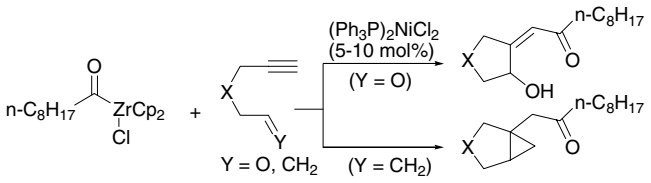
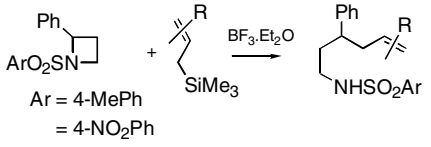
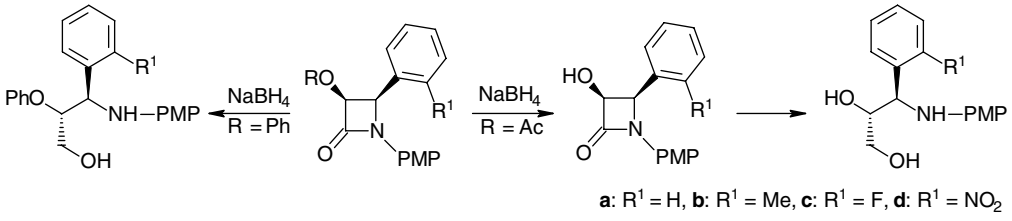
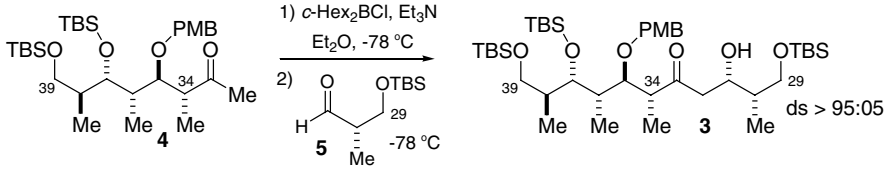
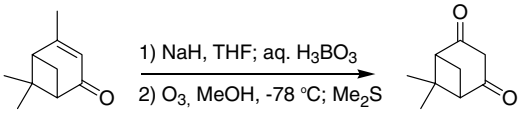




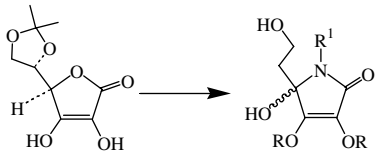


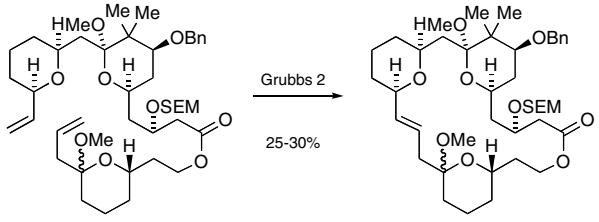


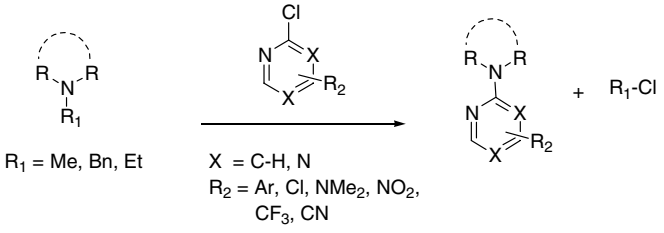


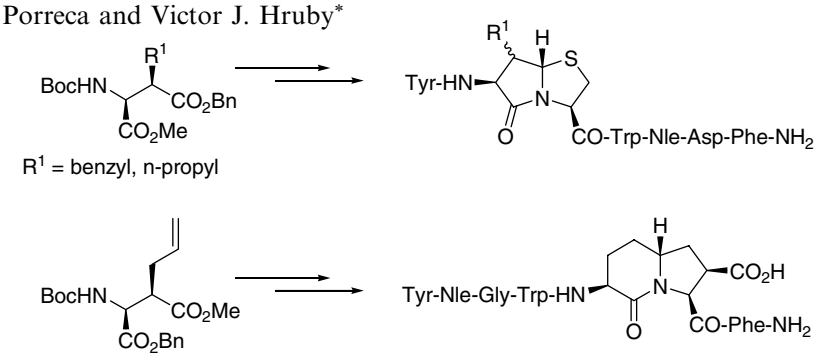


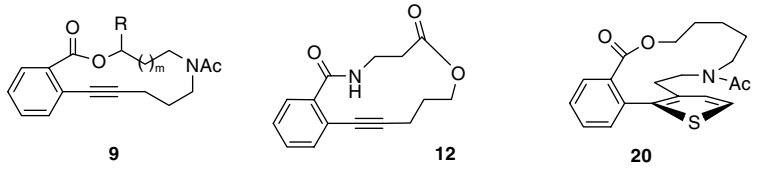
A convenient, reproducible high-yield synthesis of 6,6-dimethylbicyclo[3.1.1]heptane-2,4-dione is described.



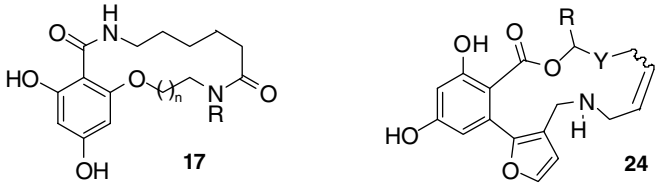




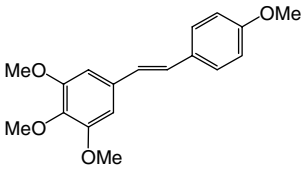




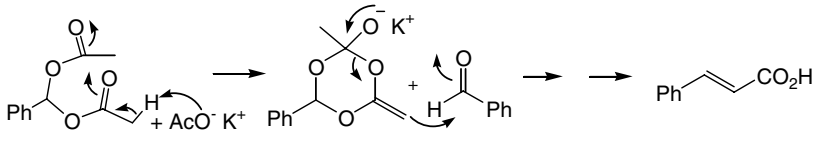
Short routes are reported to novel macrolides (e.g., **9**, **12**, **20**) related to the HSP90 inhibitor radicicol.

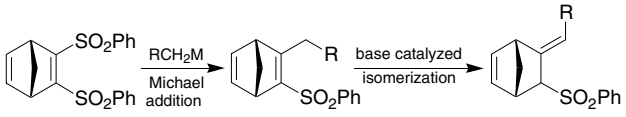


Novel resorcinylic macrolides, for example, **17**, **24**, were prepared via ring-closing metathesis as analogues of the HSP90 inhibitor radicicol.

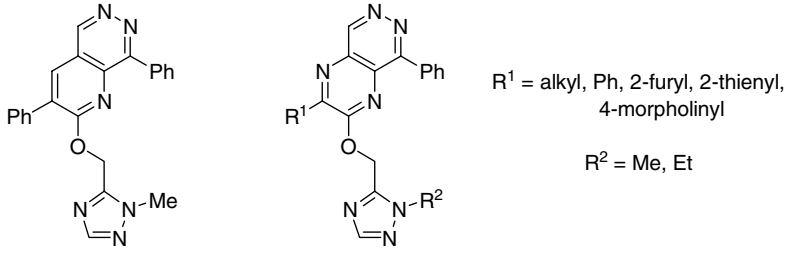


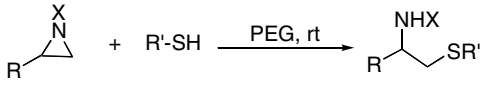
An improved synthesis of the anti-cancer agent DMU-212 ([*E*]-3,4,5,4′-tetramethoxystilbene) is described. The methodology involves the use of a Pd-oxazoline catalyst as mediator of a regio-selective (Heck) C–C bond formation reaction. A simple isolation step is then used to obtain the title material. The compound has been further characterised in the solid-state by X-ray diffraction methods.

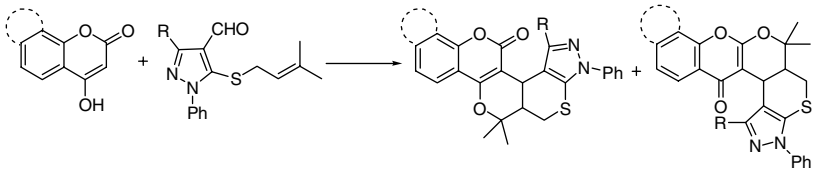




The preparation of a series of bicyclo[2.2.1] (*E*)-allylsulfones starting from the corresponding (*Z*)-vinylsulfones is described. The procedure affords valuable vinylidenic norbornenes, characteristic nuclei of biologically active compounds.







*Corresponding author
ⓘ+ Supplementary data available via ScienceDirect

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