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Tetrahedron Letters

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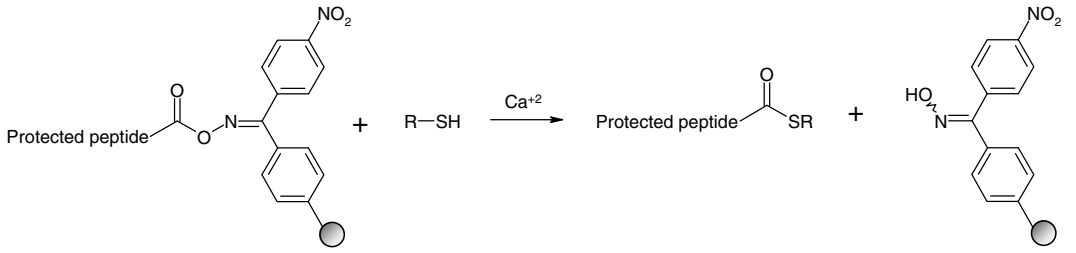
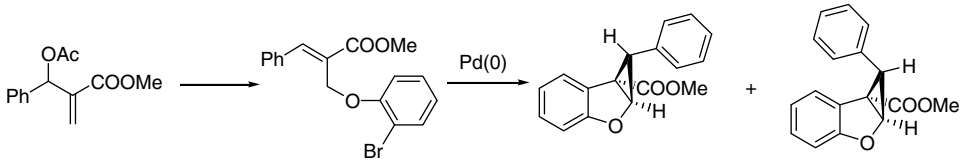
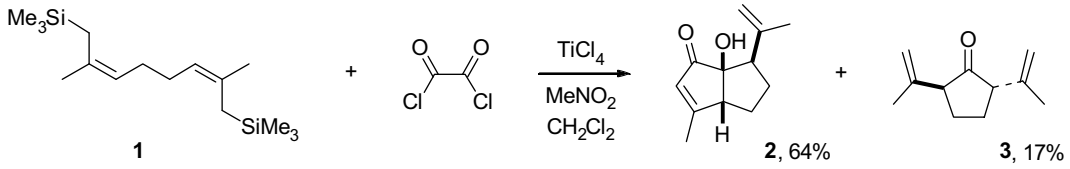
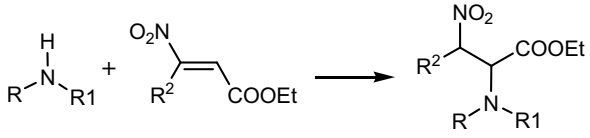
Contents

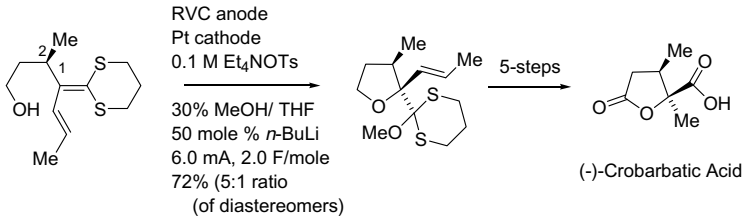
COMMUNICATIONS

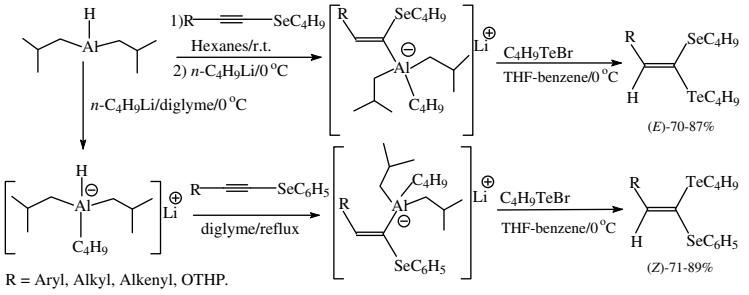


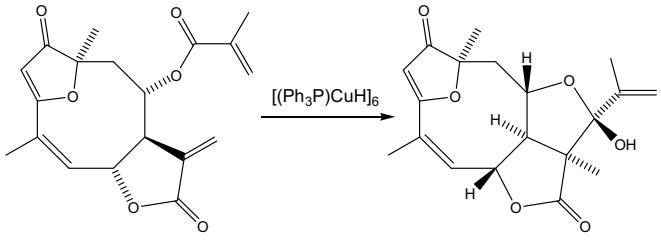




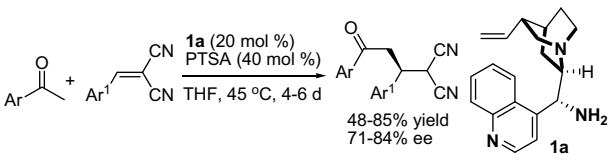




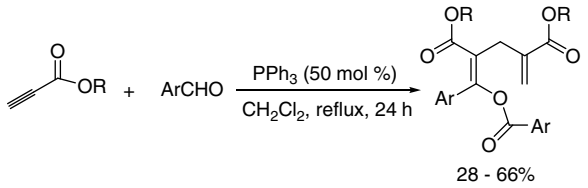


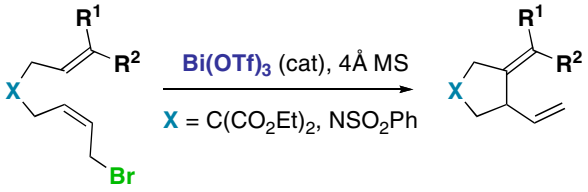


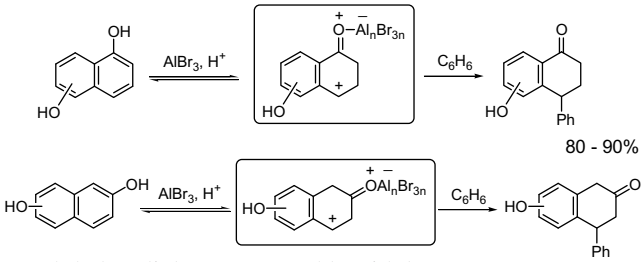
In this Letter, we describe the use of Stryker's reagent to convert a furanoheliangolide structure into an eremantholide one.



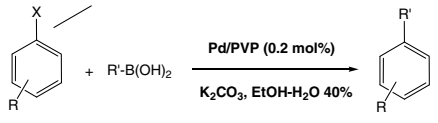
The asymmetric direct Michael addition of aromatic ketones to highly active alkylidenemalononitriles was investigated by employing a chiral primary amine 9-amino-9-deoxyepicinchonine (ADC).



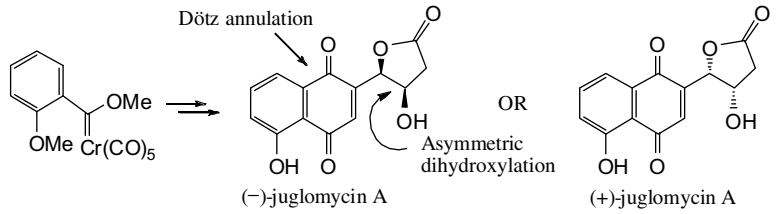


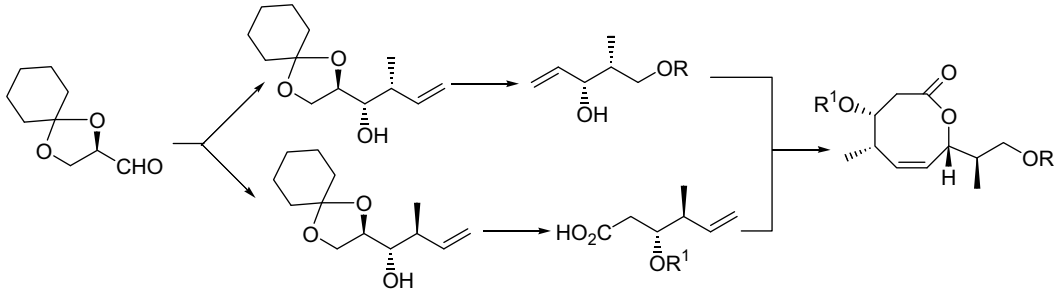


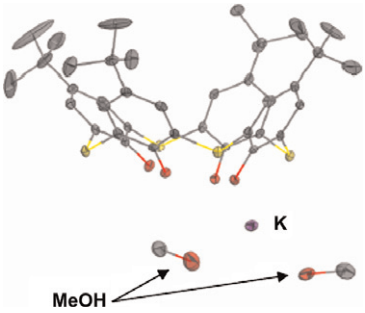
Isomeric 1,5-, 1,6-, 1,7-, 2,6-, and 2,7-naphthalenediols react smoothly with benzene at room temperature in the presence of an excess of aluminum bromide to give 5-, 6-, and 7-hydroxy-4-phenyl-1-tetralones and 5- and 6-hydroxy-4-phenyl-2-tetralones, respectively.

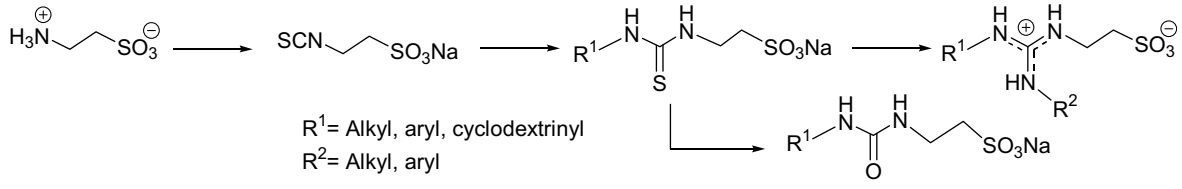


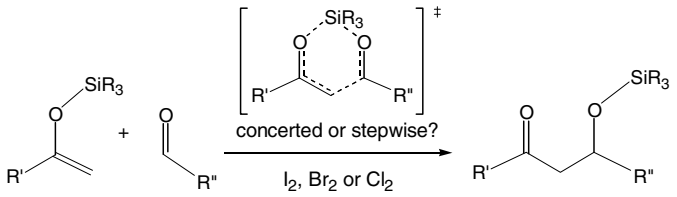
Suzuki–Miyaura reactions using Pd/PVP as a catalyst source were carried out in water–ethanol solution. Yields (and TONs) were very similar under any of the conditions studied. However, TOFs were very differents, 750/h under MW, 250/h under sonication and 28/h under thermal conditions. Studies carried out under sonication showed that the whole system after product extraction can be re-used at least twice without any noticeable loss of yield.

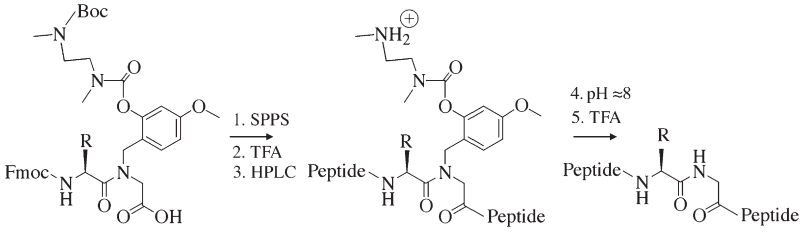




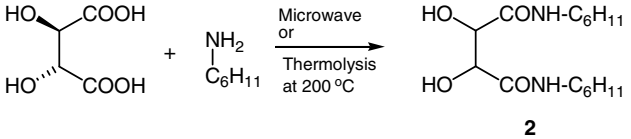








The use of an Fmoc dipeptide with a modified peptide bond was studied as a strategy for improvement of the solubility of synthetic peptides



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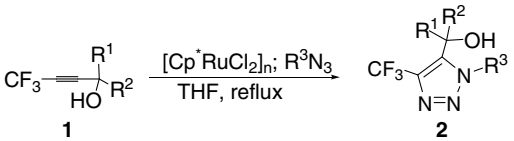
Product ratio (*R,R*-**2**) : (*S,S*-**2**) : (*meso*-**2**) = 1.0 : 0.3 : 1.2



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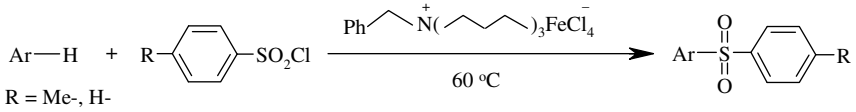
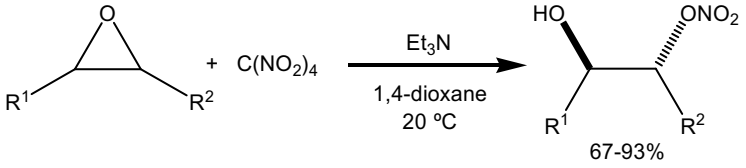
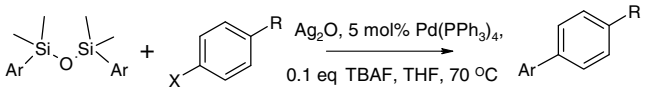
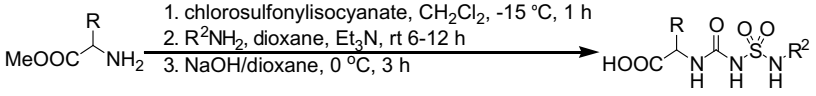


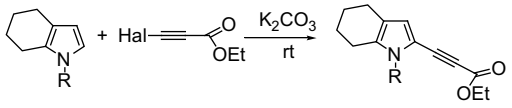


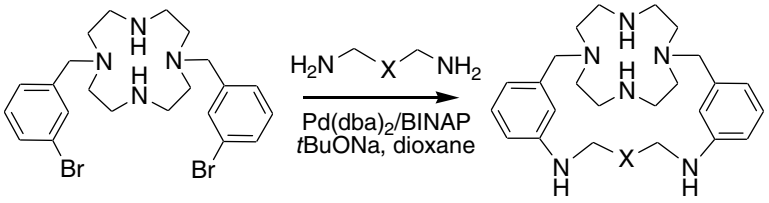


Palladium catalysed Hiyama-type coupling of aryl disiloxanes or aryl silanols with aryl halides in the presence of stoichiometric silver(I) oxide and catalytic TBAF allows the rapid preparation of biaryls in moderate to high yield under mild thermal or microwave irradiation conditions.



A simple, convenient synthesis of amino sulfonylureas, starting from amino acids is described.





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ⓘ+ Supplementary data available via ScienceDirect

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