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Tetrahedron Letters

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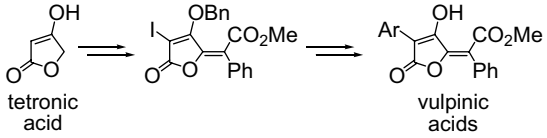
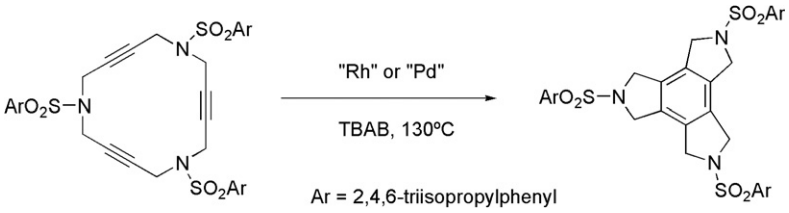
Contents

COMMUNICATIONS

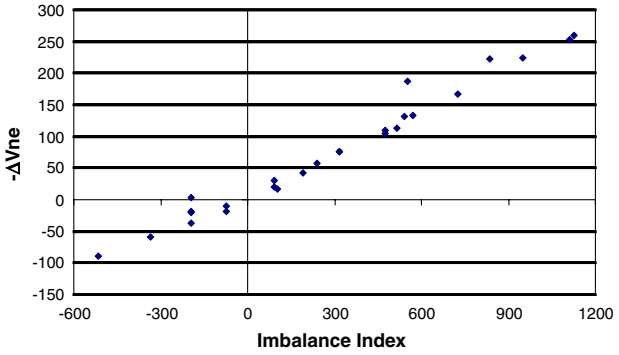


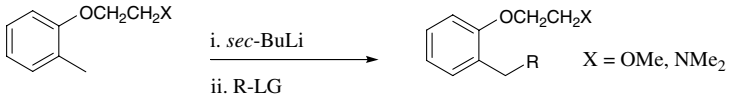
Tetronic acid was converted in a few steps to an alkenyl iodide which served as a common precursor for several vulpinic acids (methyl pulvinates), bearing different Ar groups, and obtained via Suzuki–Miyaura cross-couplings.

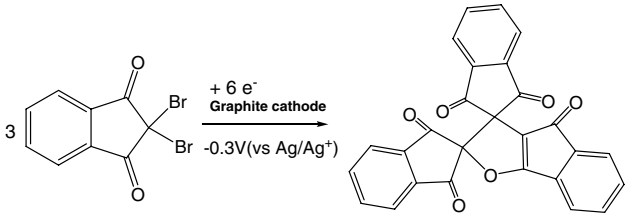


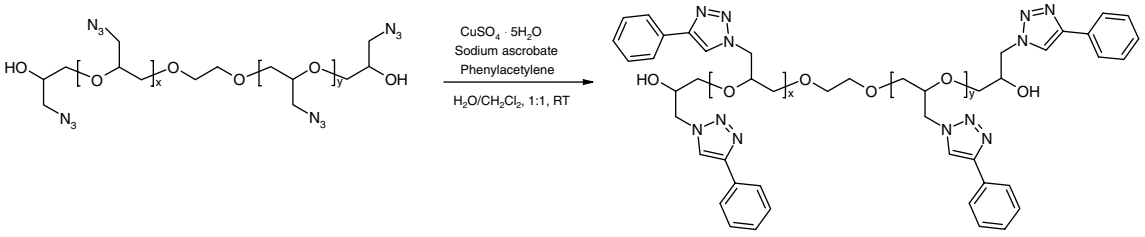
Molten tetra-*n*-butylammonium bromide is an efficient solvent in [2+2+2] cycloisomerization processes of unsaturated azamacrocycles catalyzed by rhodium and palladium complexes. In the latter case, palladium nanoparticles are observed and are presumably the real catalytic species.

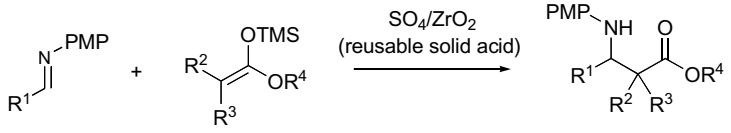
Differences in nucleus–electron attraction compared to acyclic compounds are not related to ring or Baeyer strain. They result from interaction imbalances in the underlying reactions.

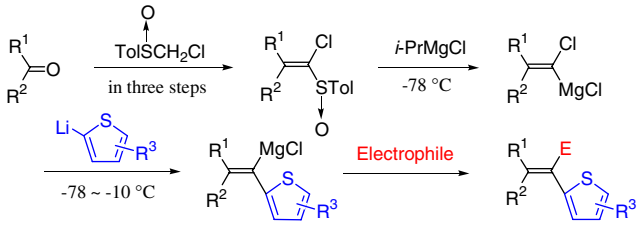


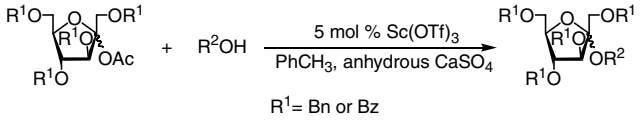


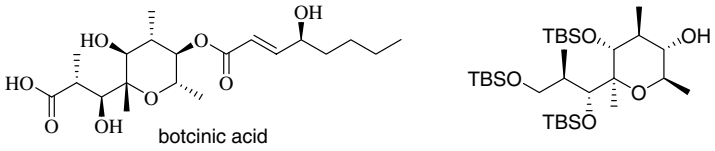


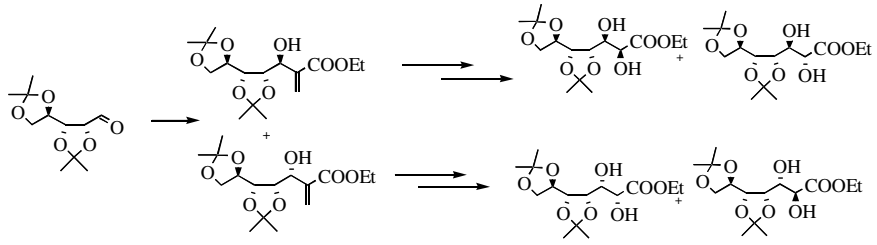




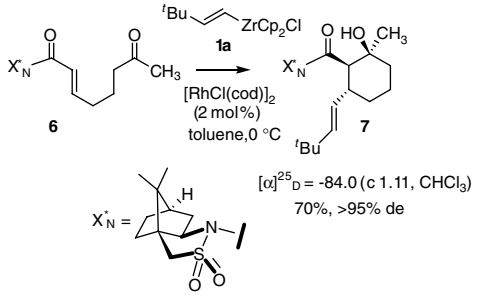


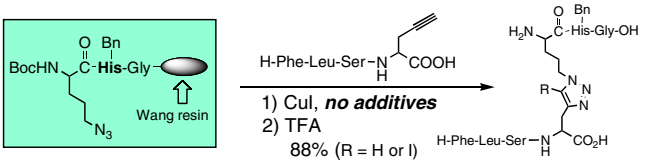


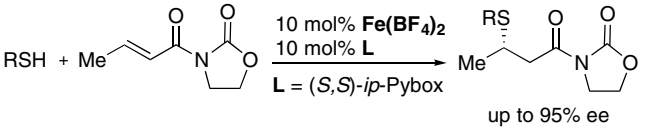


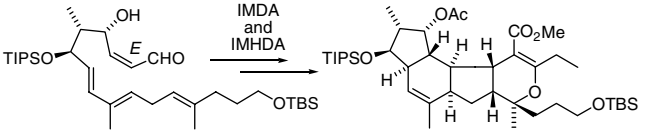


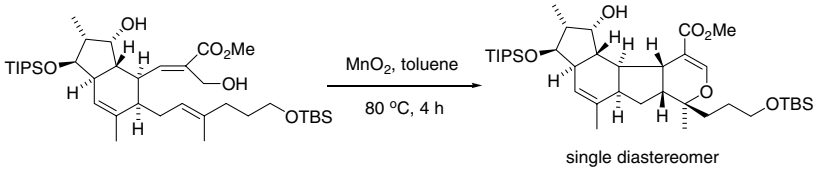
The Baylis–Hillman reaction is invoked as an attractive synthetic strategy for ready access to higher-carbon sugars.

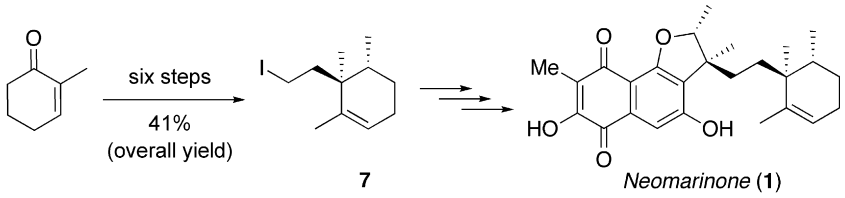




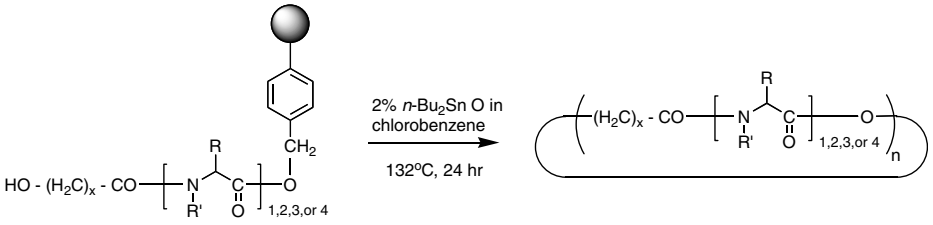


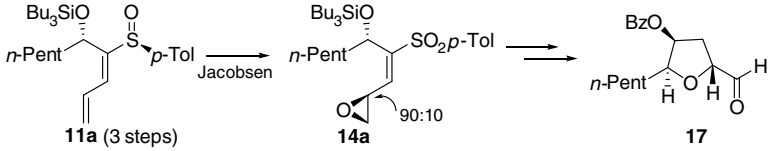


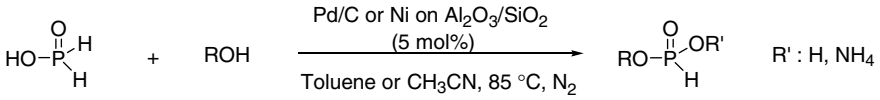




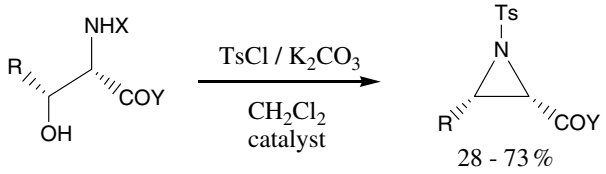
A practical and efficient stereoselective synthesis of the side chain of neomarinone is reported. The key step is a novel stereoselective 1,4-conjugate addition/enolate alkylation by an epoxide-opening reaction.



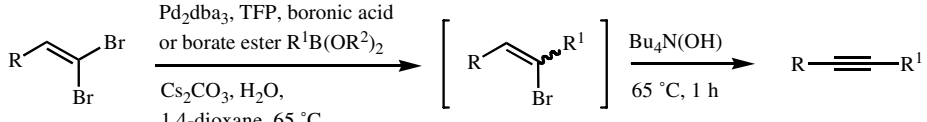




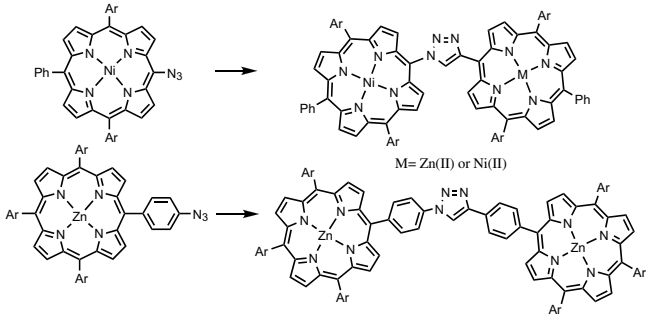
A novel approach to *H*-phosphonates from hypophosphorous acid using a transfer hydrogenation process was developed. This method is atom-economical, environmentally friendly, catalytic, and efficient, leading easily to *H*-phosphonate monoesters or ammonium salt in moderate to good yields.

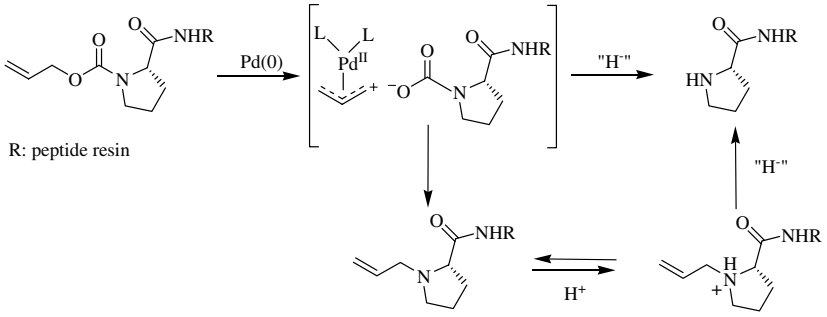


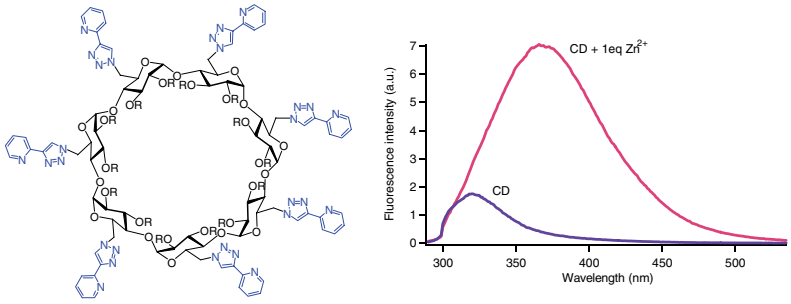
R = H or Me; X = H or Ts, Y = OMe or NH*t*-Bu

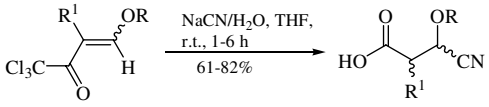


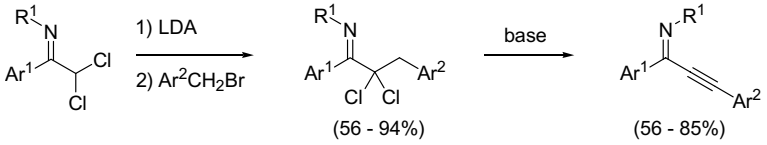
R, R^1 = aryl and/or heteroaryl

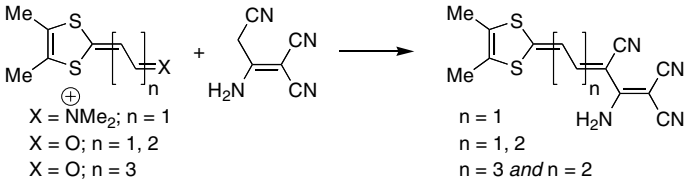


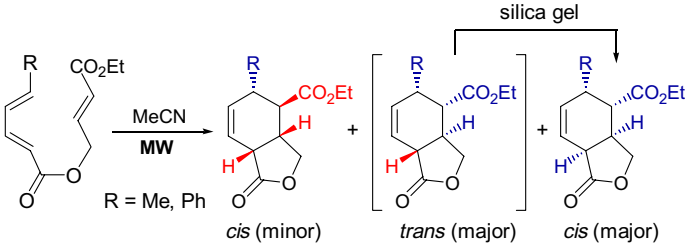


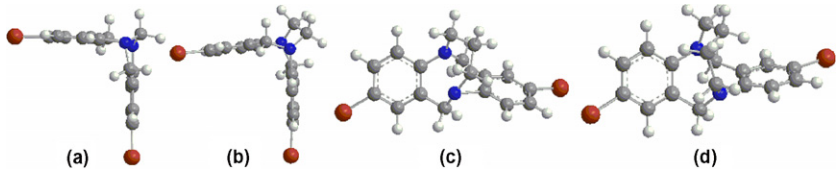




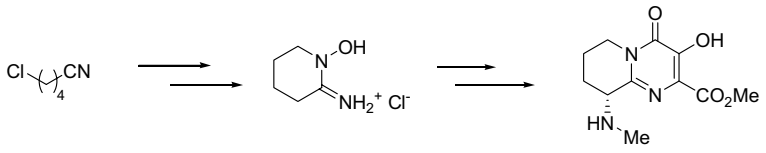


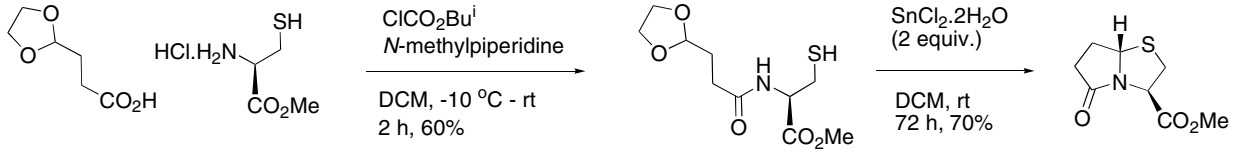


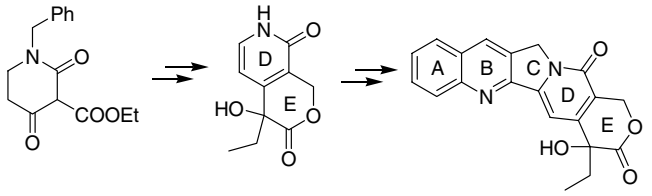




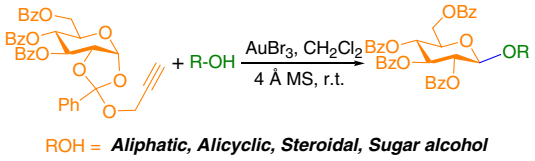
The shape of the Tröger's base framework is dramatically altered by changing from one atom (a) to two (b), three (c) or four atoms (d) between the two nitrogen atoms of the diazocine bridge.

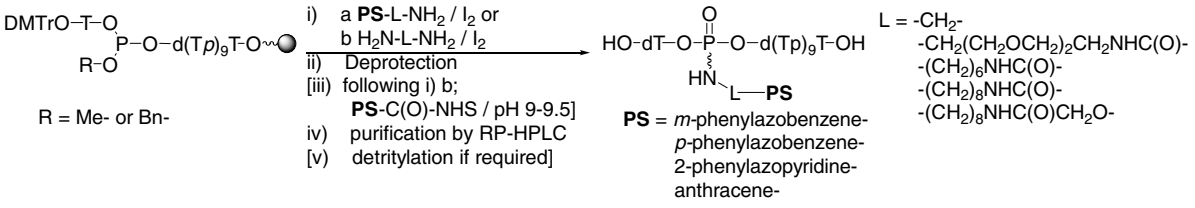


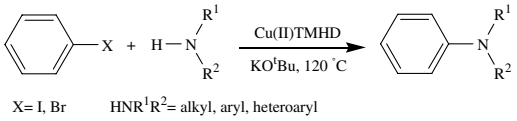




The synthesis of the DE ring of camptothecin using simple and inexpensive starting materials, employing an addition elimination reaction and selective esterification of an aliphatic carboxylic acid as key steps is described.

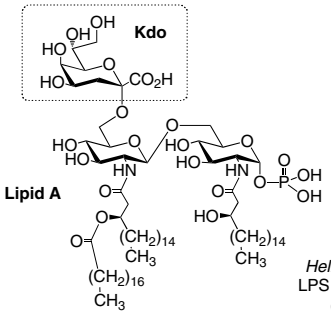




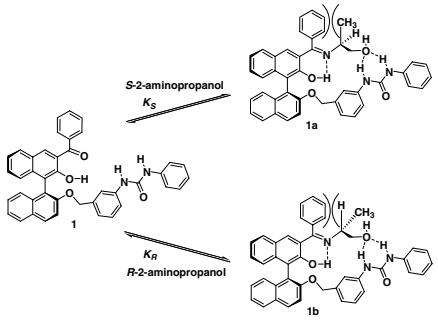


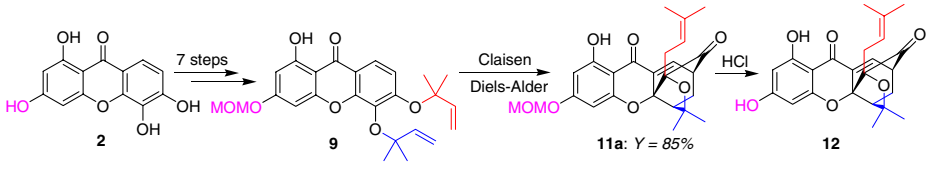
Copper bis(2,2,6,6-tetramethyl-3,5-heptanedionate) was found to be an efficient catalyst for N-arylation of aliphatic, aromatic and heteroaromatic amines with aryl iodides/bromides under mild conditions.

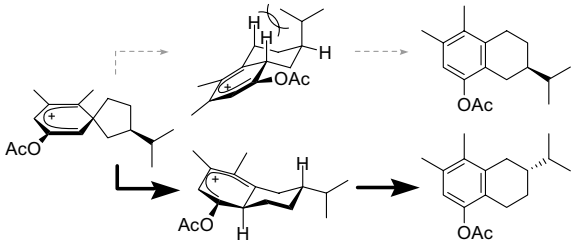
Immunoregulatory lipopolysaccharide (LPS) partial structures from *Helicobacter pylori* were synthesized and relates the structural uniqueness of *H. pylori* LPS with its immunobiological activity.



A novel auxillary chiral ketone has been designed, synthesized and used to enantioselectively recognize 1,2-amino alcohols. This work proves that the keto group can serve as a chiral recognition center by imine formation supported by resonance assisted hydrogen bonding (RAHB).







This Letter describes a series of dienone–phenol rearrangements where selectivity can be correlated with the relative stability of cationic intermediates.

OTHER CONTENT

*Corresponding author
ⓘ+ Supplementary data available via ScienceDirect

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