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Tetrahedron Letters

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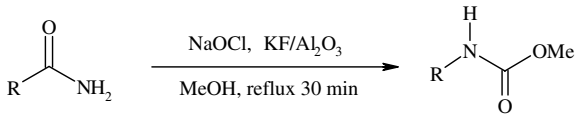
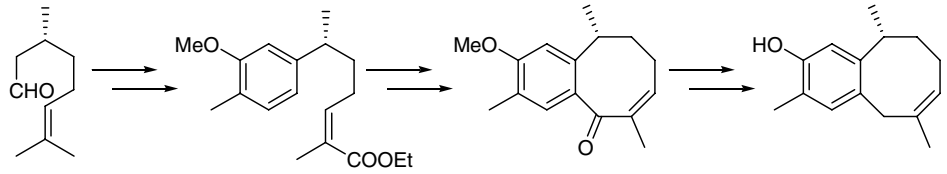
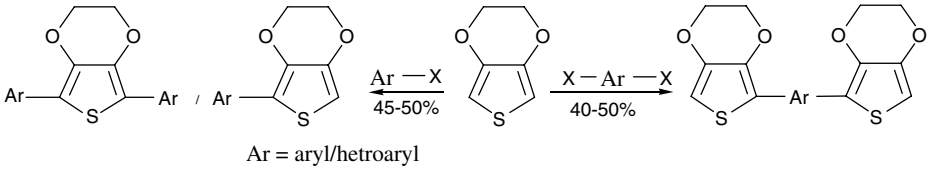
Contents

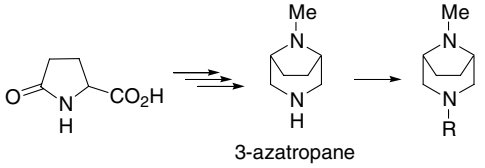
COMMUNICATIONS



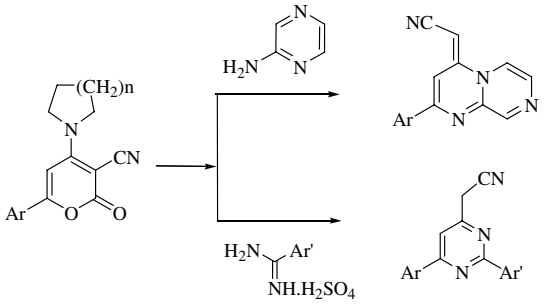


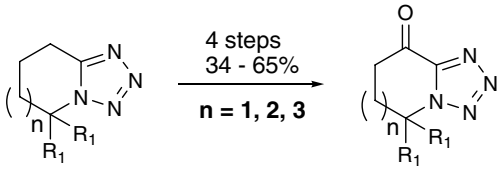
An enantiospecific synthesis of (+)-isoparvifolinone and (−)-parvifoline, from naturally occurring (*R*)-(+)-citronellal, employing intramolecular Friedel–Crafts acylation as the key step, is described.

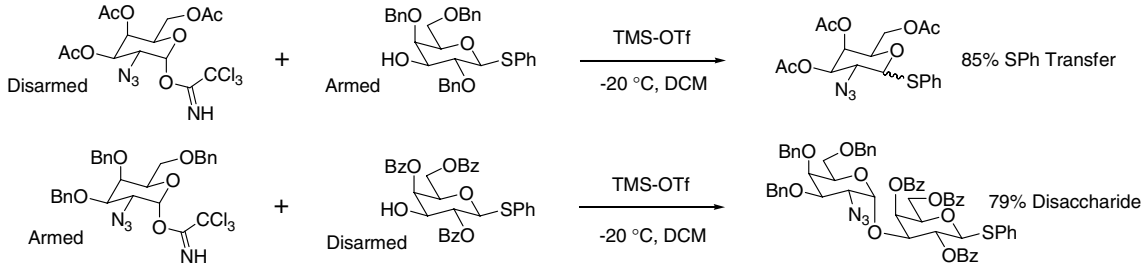


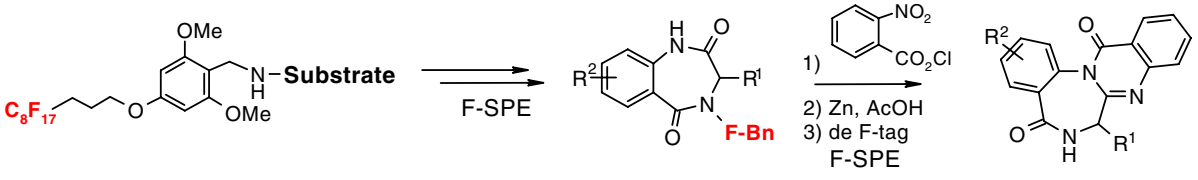


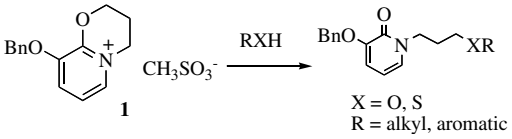
A convenient and efficient synthesis of 8-methyl-3,8-diazabicyclo[3.2.1]octane is reported.



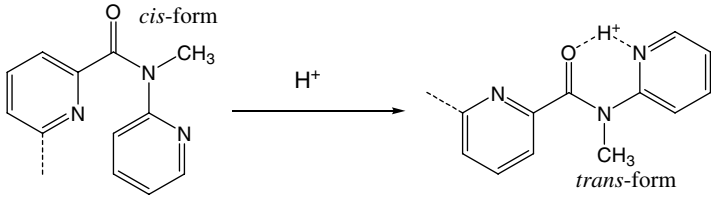


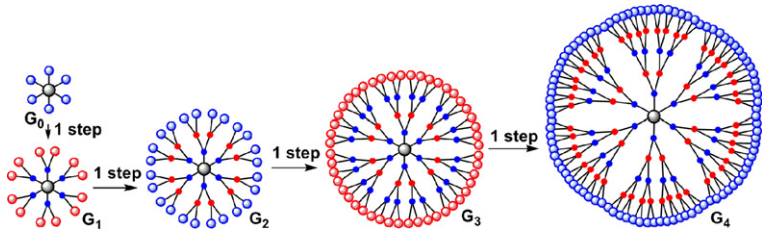




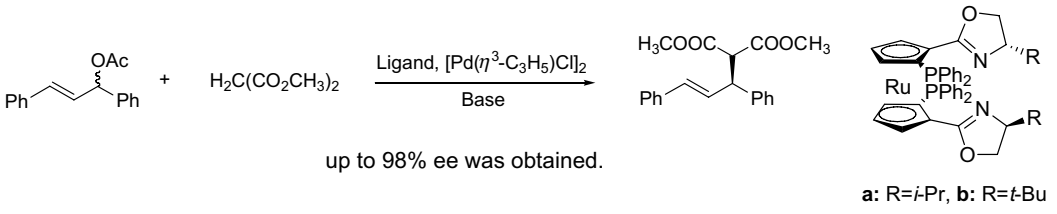


The alkylation of mesylate salt **1** with alcohols, phenols, and their sulfur analogs provides a convenient method for the synthesis of a variety of HOPO derivatives.





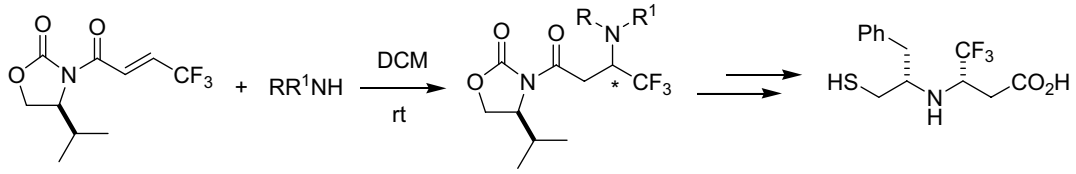
Only one step to synthesize one generation: a new method allows the synthesis of a fourth generation layered dendrimer in only 4 steps.

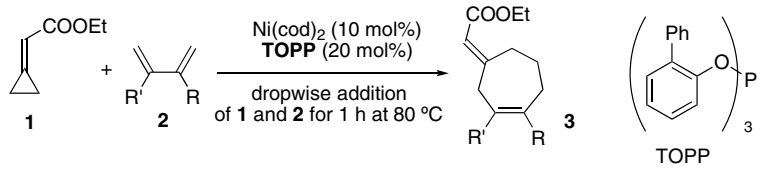


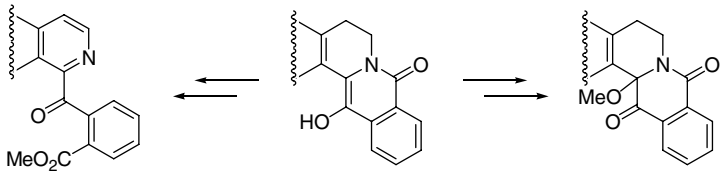
up to 98% ee was obtained.

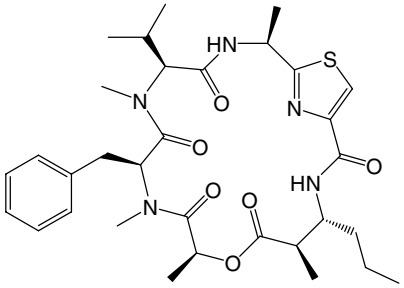
a: R=*i*-Pr, **b:** R=*t*-Bu

Novel air-stable C_2-symmetric tetrasubstituted ruthenocene-based ligands were readily synthesized and used for palladium-catalyzed asymmetric allylic substitution showing excellent enantioselectivity and high catalytic activity.



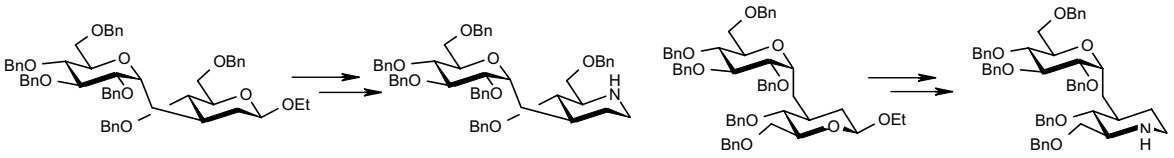




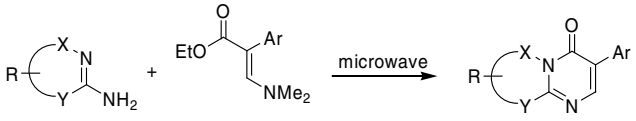


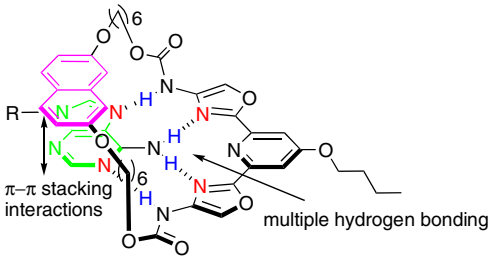
Ulongamide A

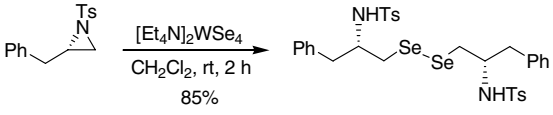
The first total synthesis of ulongamide A is reported.

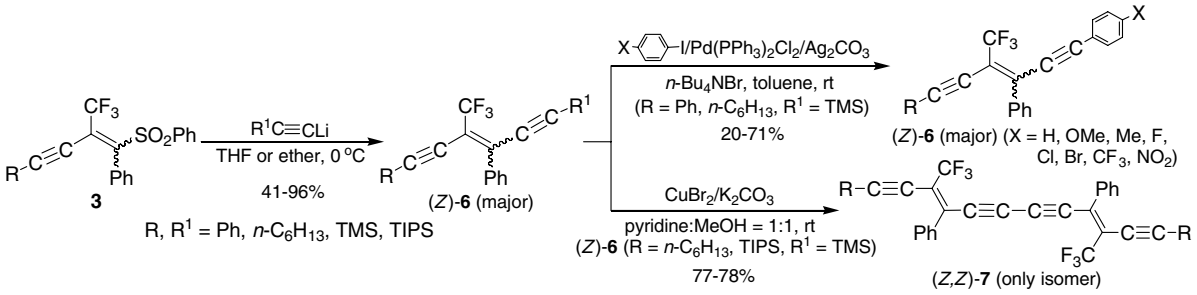


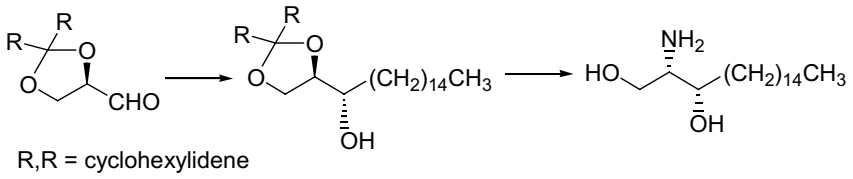
Stereoselective synthesis of 3-α-*C*-glucosides of D- and L-fagomine from the corresponding *C*-disaccharides is reported.

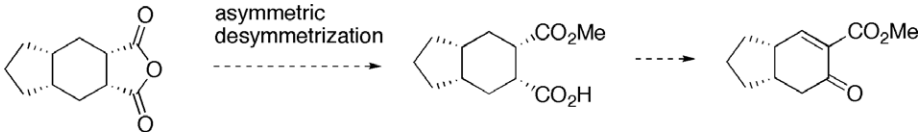


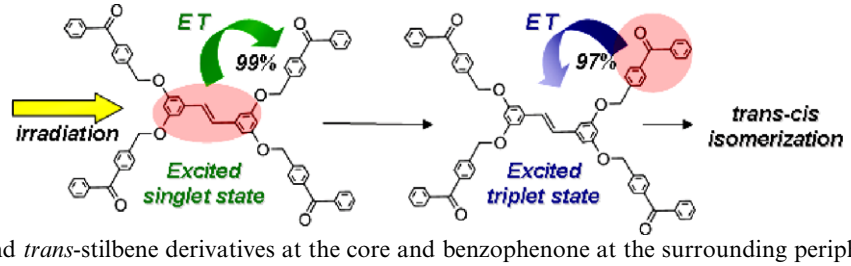




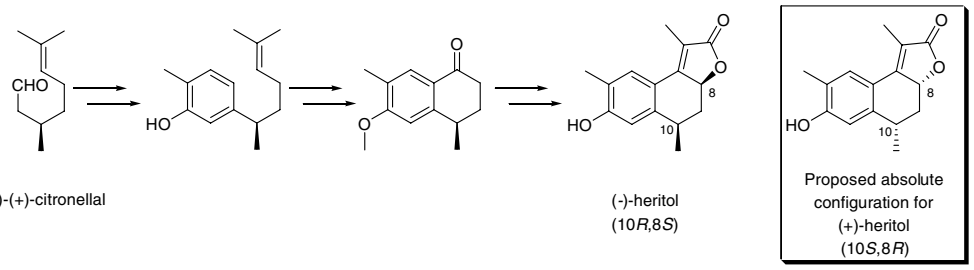




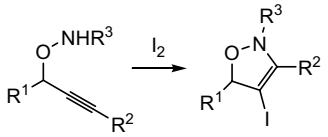




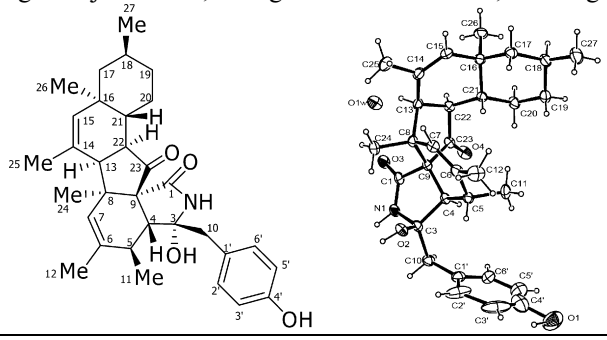
Dendrimers with *cis*- and *trans*-stilbene derivatives at the core and benzophenone at the surrounding periphery were prepared to study the intramolecular energy transfer and emission properties as well as photoisomerization.

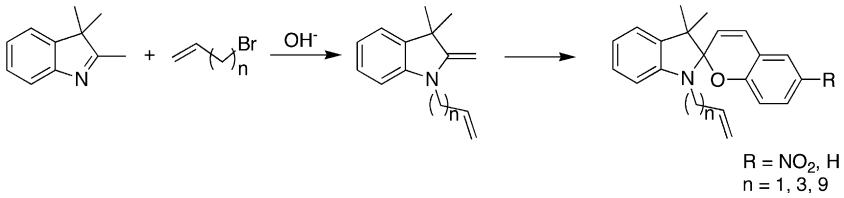


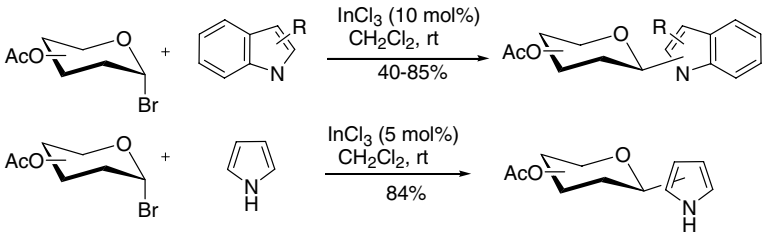
The first enantiospecific synthesis of (−)-heritol, from naturally occurring (*R*)-(+)-citronellal and confirmation of its absolute configuration, is described.

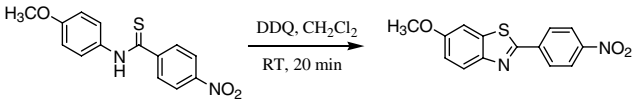


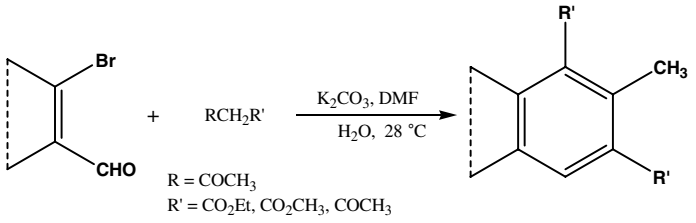
O-Propargylic hydroxylamines undergo smooth 5-*endo*-dig cyclisations upon exposure to excess molecular iodine to give respectable yields of 4-iodo-2,5-dihydroisoxazoles.

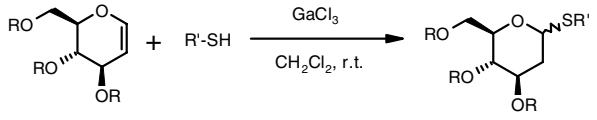


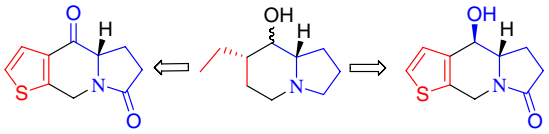




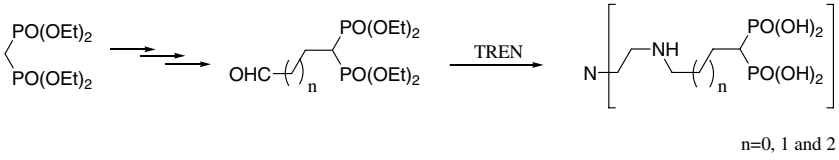


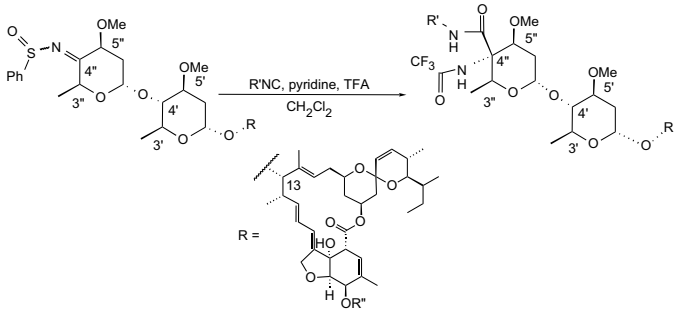


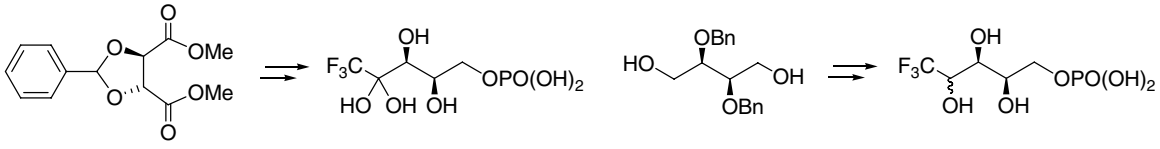


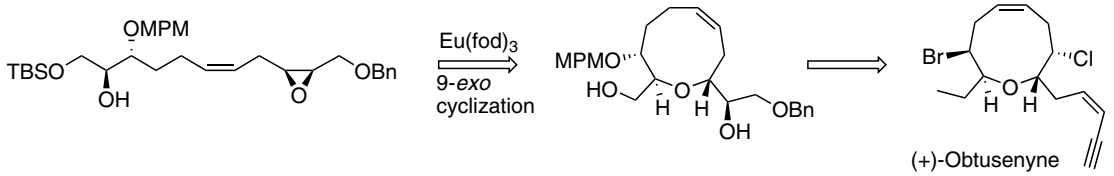


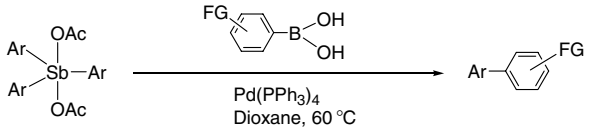
A new and expedient approach for the synthesis of prototypic alkyl-substituted indolidinols, namely 7(*S*)-ethyl-8(*S*)-indolizidinol and its 8(*R*)-epimer is described from readily available chiral non-racemic thienoindolizine-4,7-dione and 4-hydroxythienoindolizin-7-one.

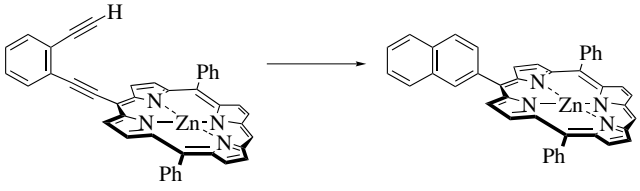


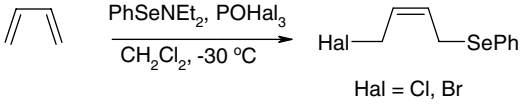












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*Corresponding author
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