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Tetrahedron Letters

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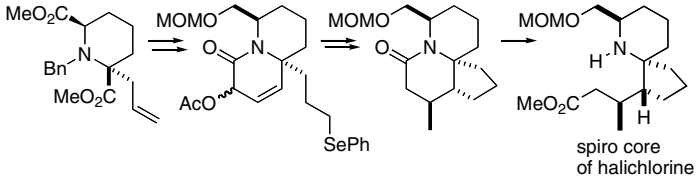
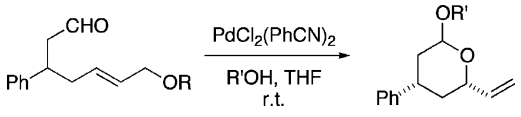
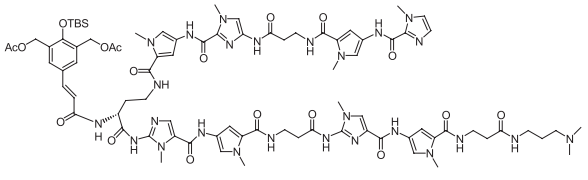
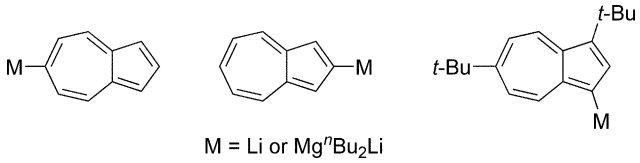
Contents

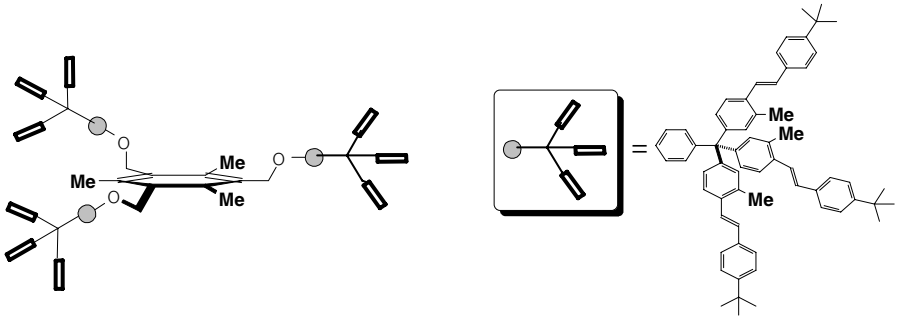
COMMUNICATIONS

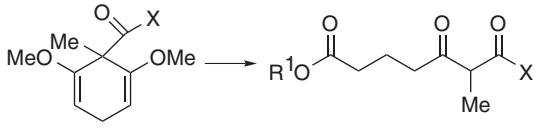




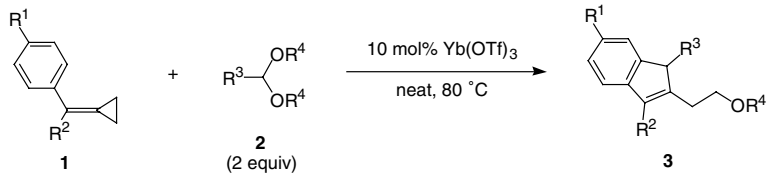


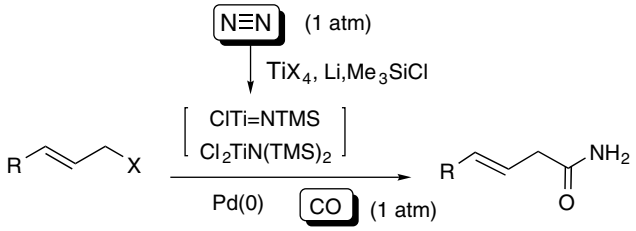




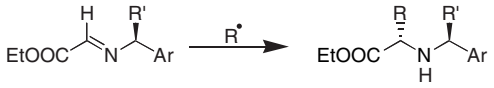


Birch reduction followed by solvolysis provides two or three step access to the title compounds.

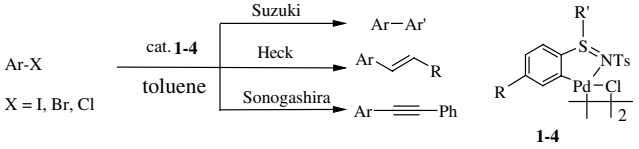


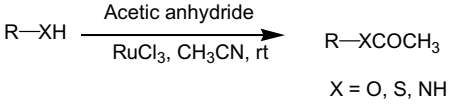


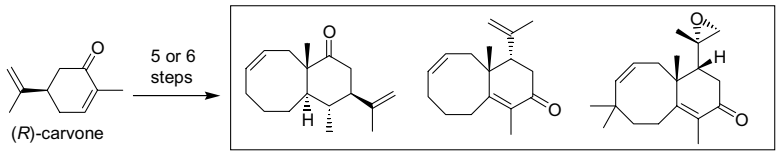
4-Aryl-but-3-enamides could be synthesized from corresponding allyl halides, carbon monoxide (1 atm), and titanium–nitrogen complexes, prepared from $Ti(O^iPr)_4$, Li, TMSCl, and molecular nitrogen (1 atm), using a palladium catalyst.

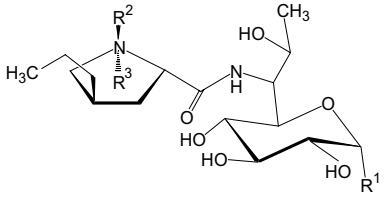


Radical additions to Schiff bases of chiral nonracemic amines without an additional heteroatoms in R or Ar, and ethyl glyoxylate, have been investigated to give additional products with high diastereoselectivity.

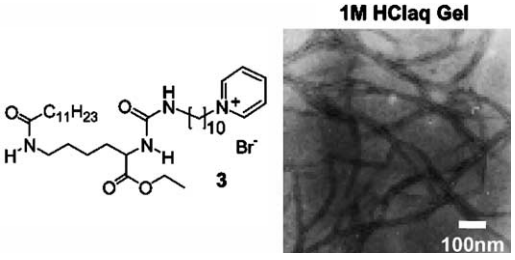


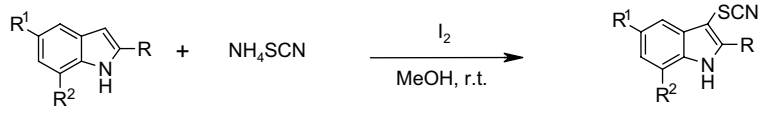


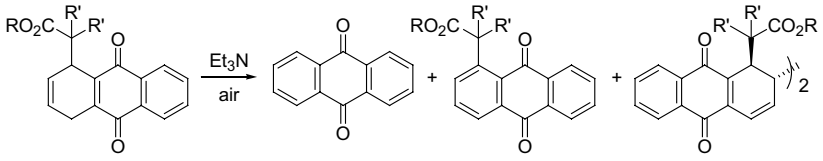


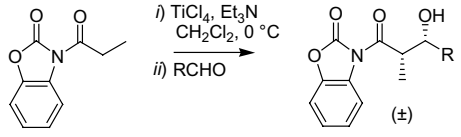


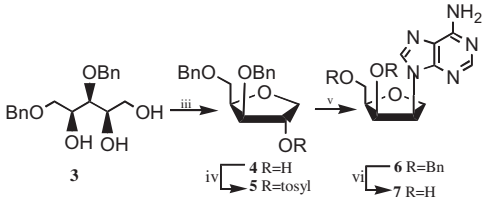
	R^1	R^2	R^3
1	CH_3S	CH_3	—
2	CH_3SO	CH_3	O
3	CH_3SO_2	CH_3	O
4	CH_3SO_2	O	CH_3

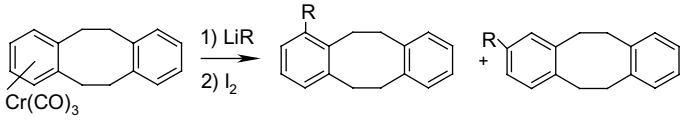




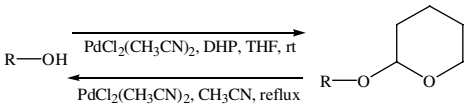


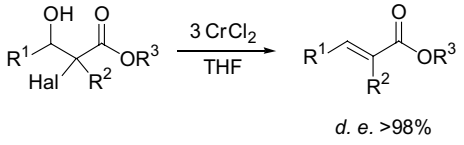


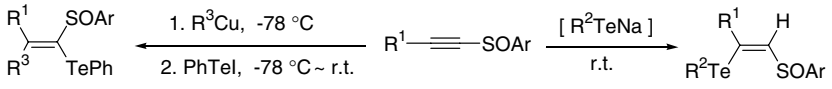




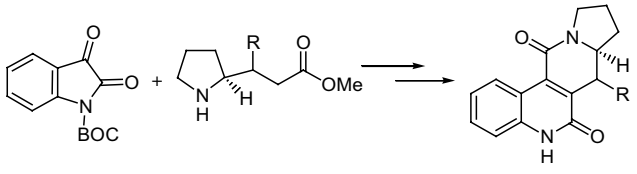
α- And β-substituted 5,6,11,12-tetrahydrodibenzo[*a*,*e*]cyclooctene derivatives are synthesized through the intermediacy of [$Cr(CO)_3$(5,6,11,12-tetrahydrodibenzo[*a*,*e*]cyclooctene)].



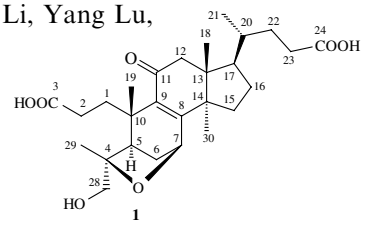




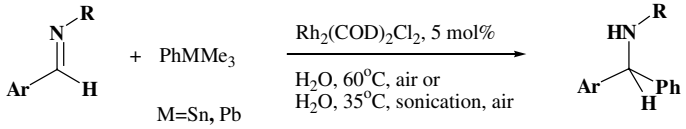
α- And (*Z*)-β-organotellurovinyl sulfoxides were prepared regio- and stereoselectively by the *syn*-carbotelluration and *anti*-hydrotelluration of acetylenic sulfoxides, respectively.

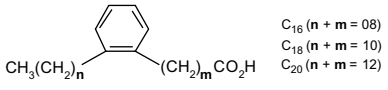


A synthesis of the indolizino[7,6-*c*]quinoline carboskeleton of isaindigotidione has been achieved starting from L-proline and isatin.

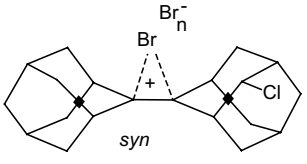


Two novel 3,4-*seco*-25,26,27-trinorlanostane triterpenoid compounds, fornicatins A and B (**1** and **2**) have been isolated from the fruiting body of *Ganoderma fornicatum*. The structural elucidation of **1** and **2** were accomplished by extensive NMR analysis. The relative stereochemistry of **2** was established by single crystal X-ray crystallography, which also confirmed the novel carbon skeleton of the new triterpenoid. An ether linkage of C-4 with C-7 in **1** is unprecedented in natural triterpenoids. Both compounds were tested for their inhibitory effects on rabbit platelet aggregation induced by PAF, ADP, or AA.





C_{16}, C_{18}, and C_{20} ω-(*o*-alkylphenyl)alkanoic acids were identified in archaeological pottery vessels. These compounds are presumed to form during the heating of triunsaturated fatty acids ($C_{16:3}$, $C_{18:3}$ and $C_{20:3}$) involving alkali-isomerization, pericyclic and aromatization reactions.



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*Corresponding author
ⓘ+ Supplementary data available via ScienceDirect

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