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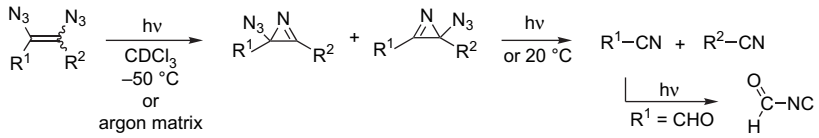
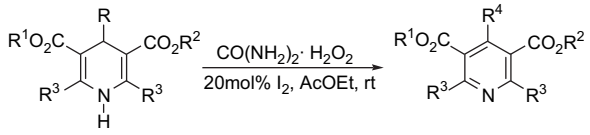
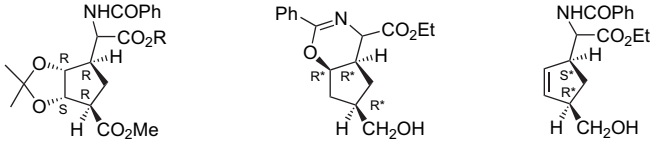
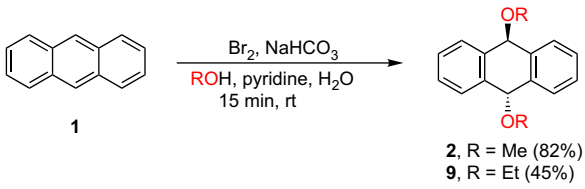
ARTICLES



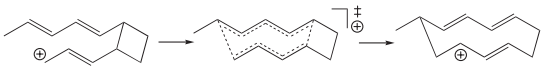


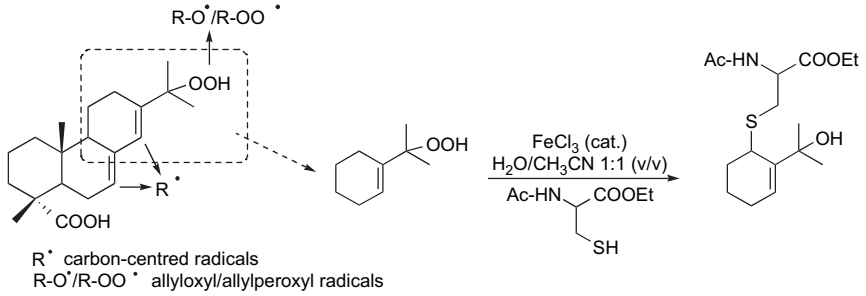


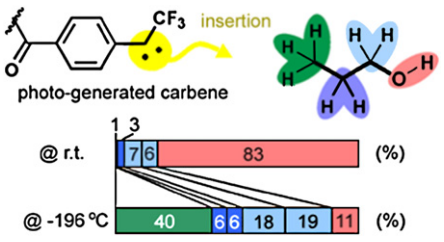


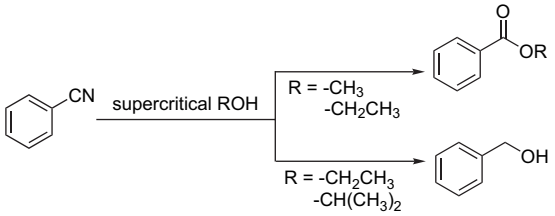
1

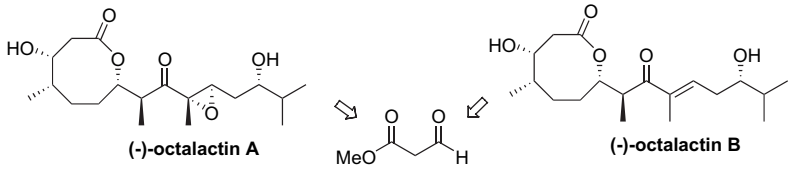
2, R = Me (82%)
9, R = Et (45%)



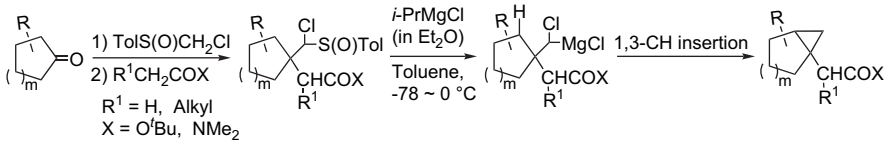


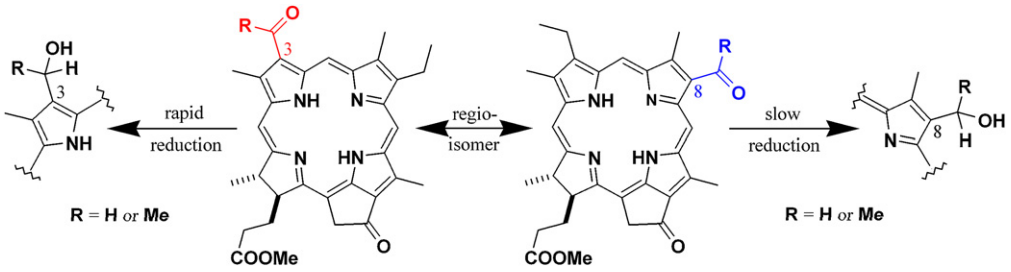


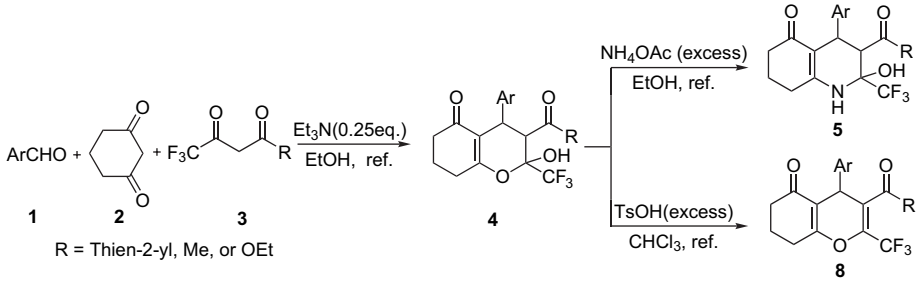


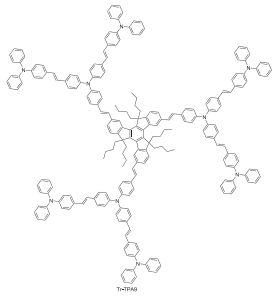


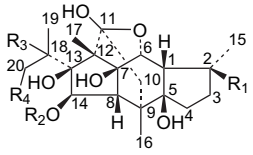
The key steps in the synthesis of octalactins are enantioselective allyltitanations and a cross-metathesis.



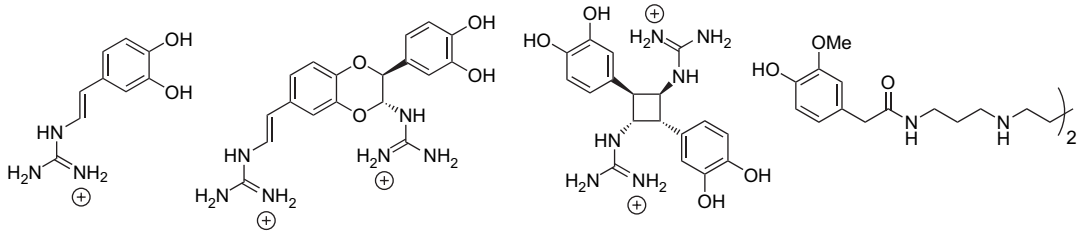


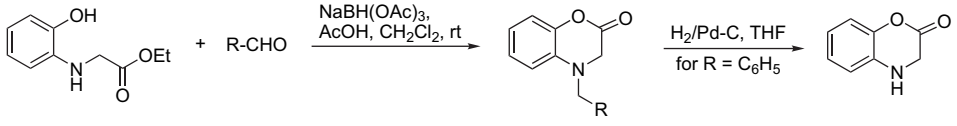


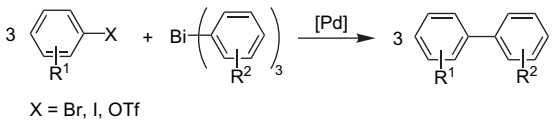




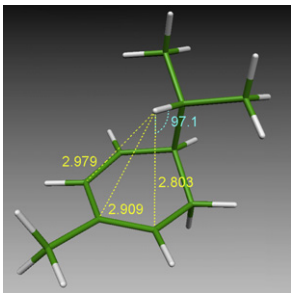
	R_1	R_2	R_3	R_4
1	H	H	H	H
2	H	H	H	OH
3	OH	H	H	H
4	H	H	OH	H
5	H	β-D-glc	H	H
6	H	H	H	O-β -D-glc

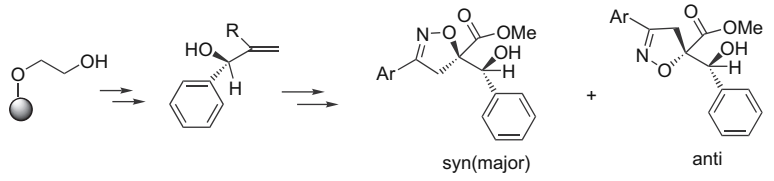


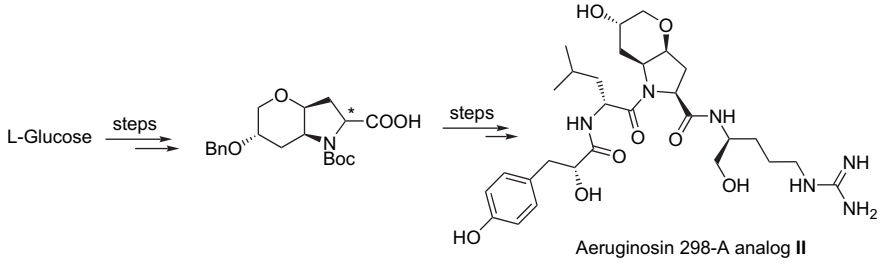


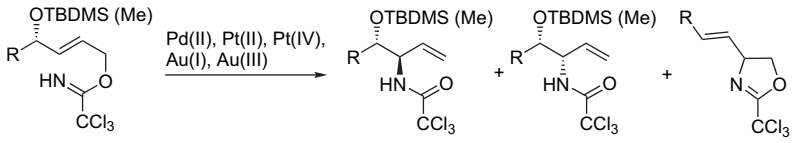


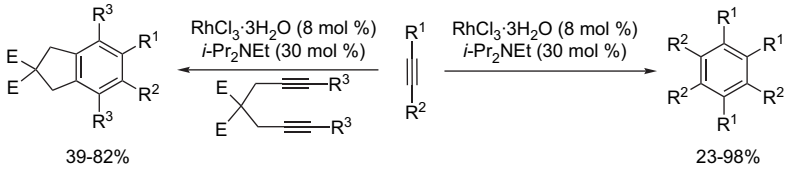
Ab initio MO calculations were carried out to investigate the Gibbs energy of conformational isomers of (*R*)-α-phellandrene and related 5-alkyl-2-methyl-1,3-cyclohexadienes. It has been found that the conformer bearing the 5-alkyl group in the axial orientation is more stable than the equatorial congener. The stability of the folded conformation has been attributed to the CH/π hydrogen bond.











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Supplementary data available via ScienceDirect

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