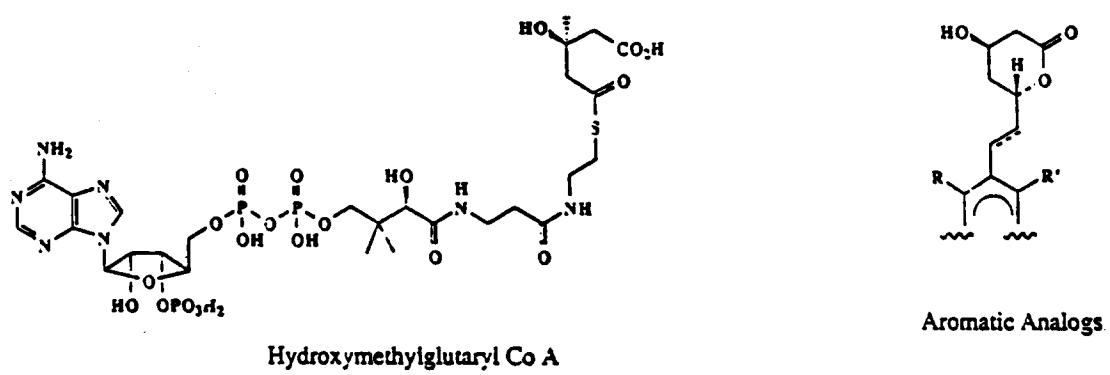
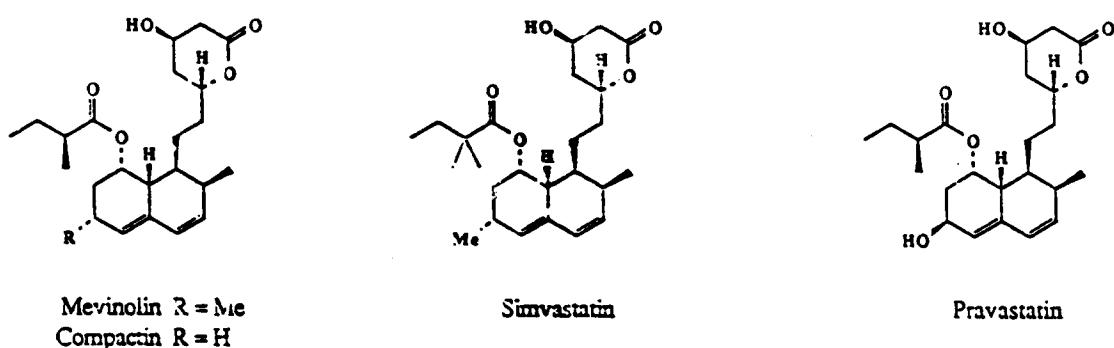
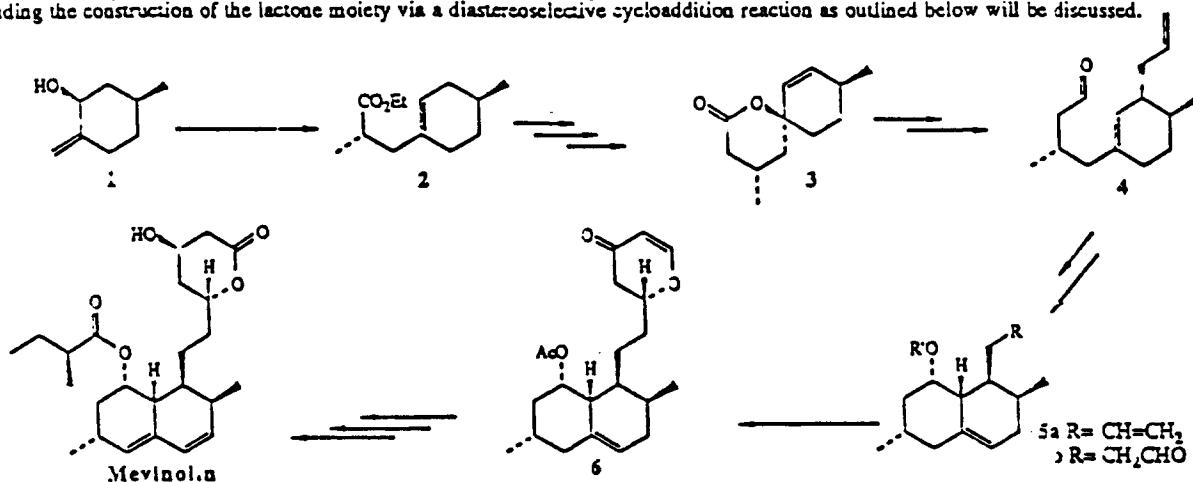
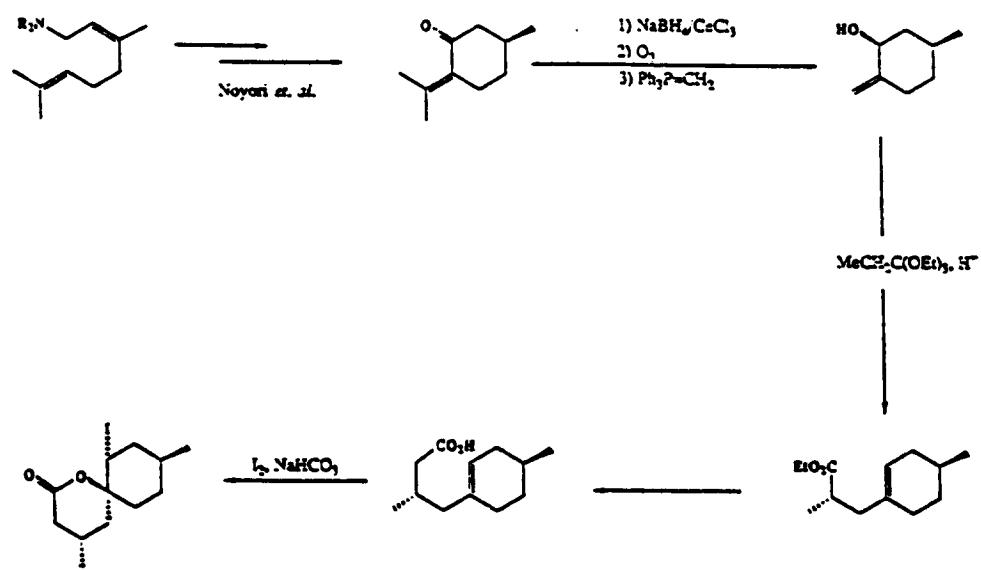
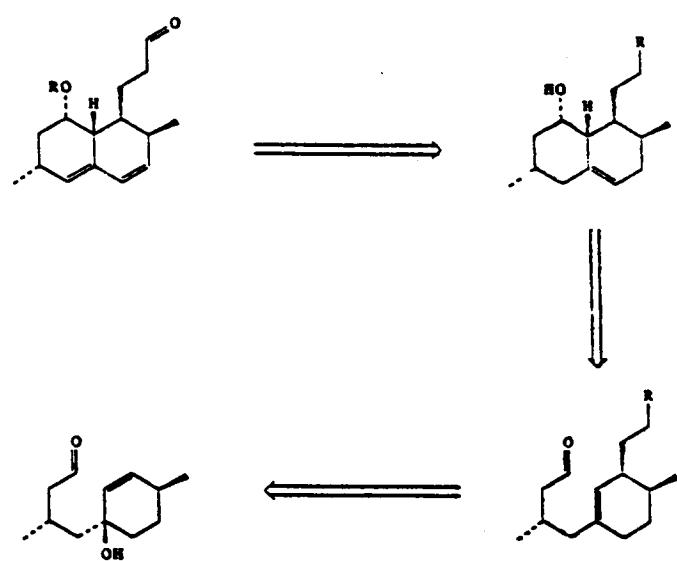
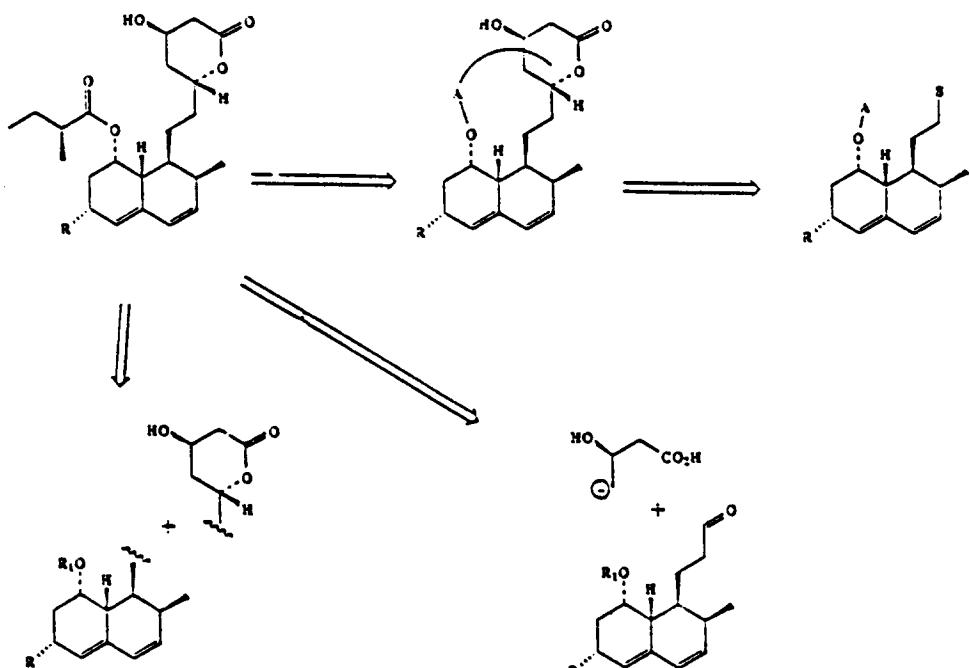


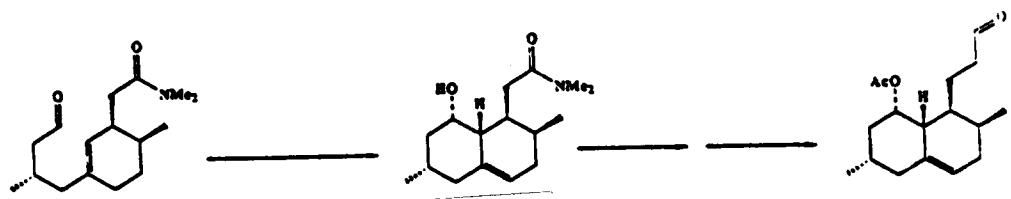
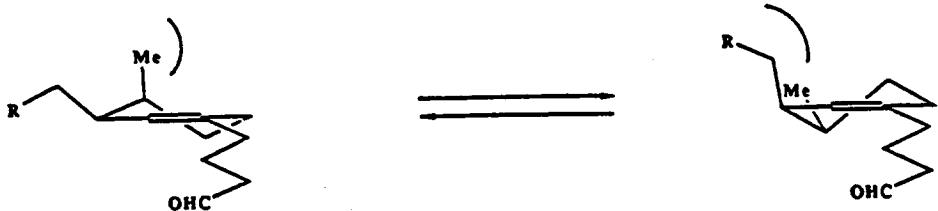
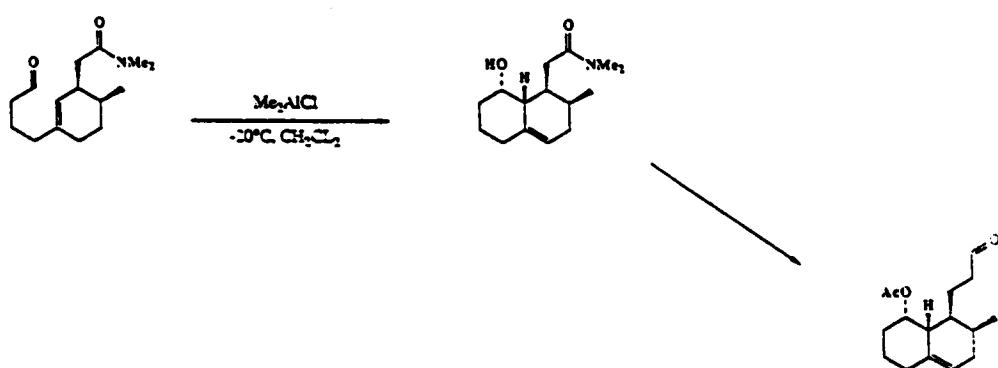
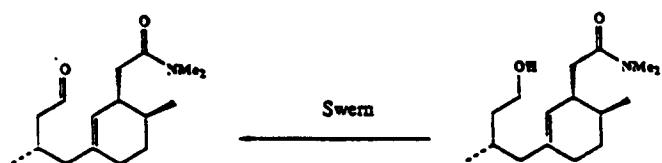
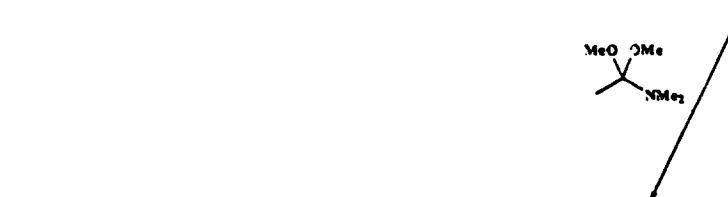
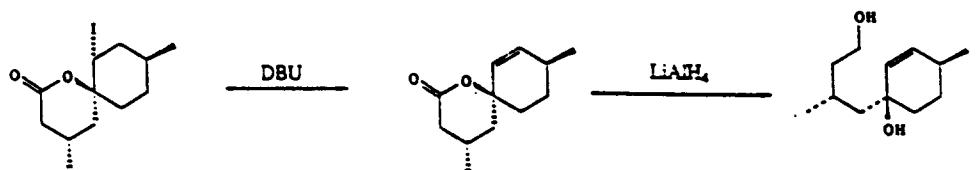
ASYMMETRIC TOTAL SYNTHESIS OF MEVINOLIN

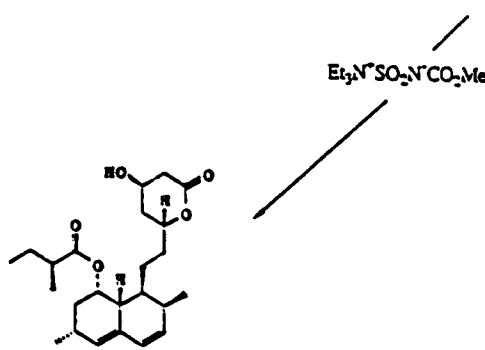
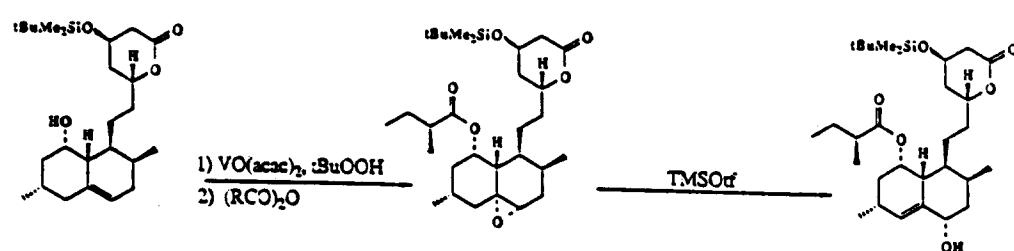
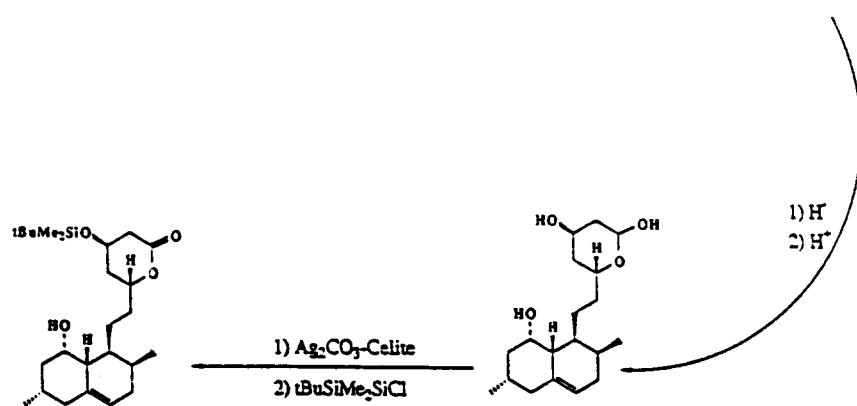
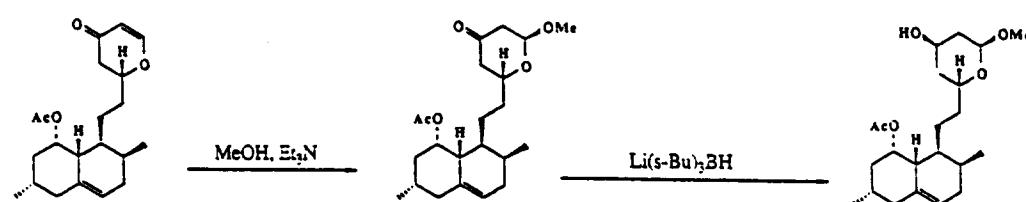
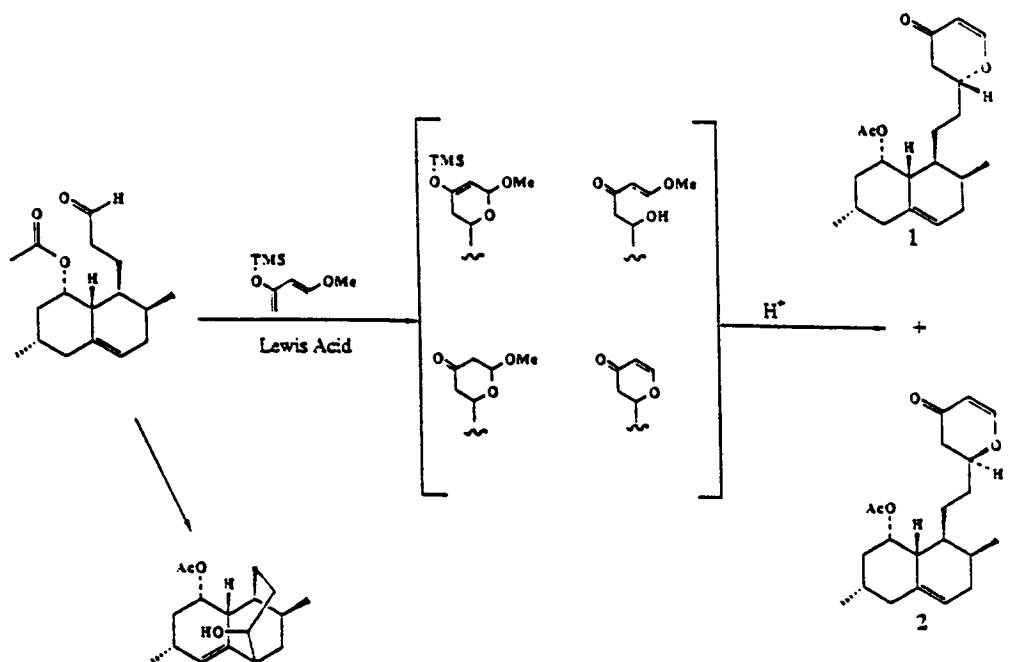
P. M. Wovkulich, P. C. Tang, N. K. Chadha, J. C. Barrish and M. R. Uskokovic
 Natural Products Chemistry Department, Hoffmann-La Roche Inc., Nutley, New Jersey 07110

Details of the asymmetric total synthesis of mevinolin via a route employing several stereoselective sequences to introduce the chiral centers including the construction of the lactone moiety via a diastereoselective cycloaddition reaction as outlined below will be discussed.



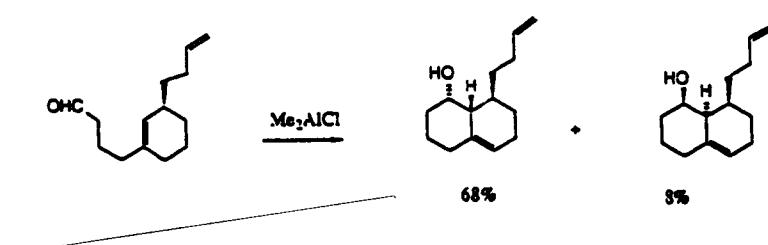
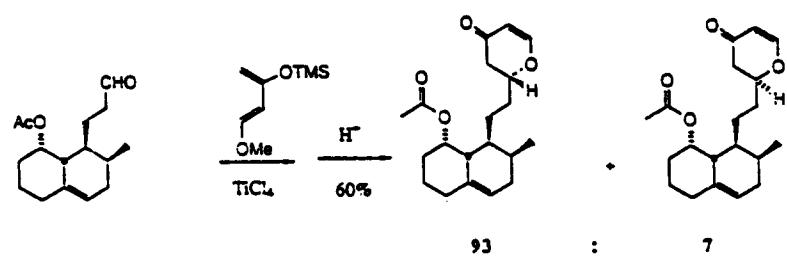
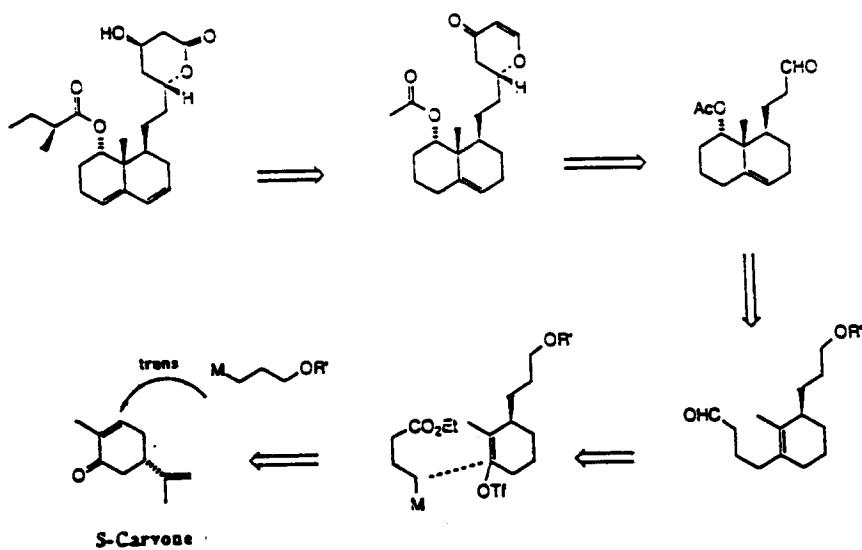
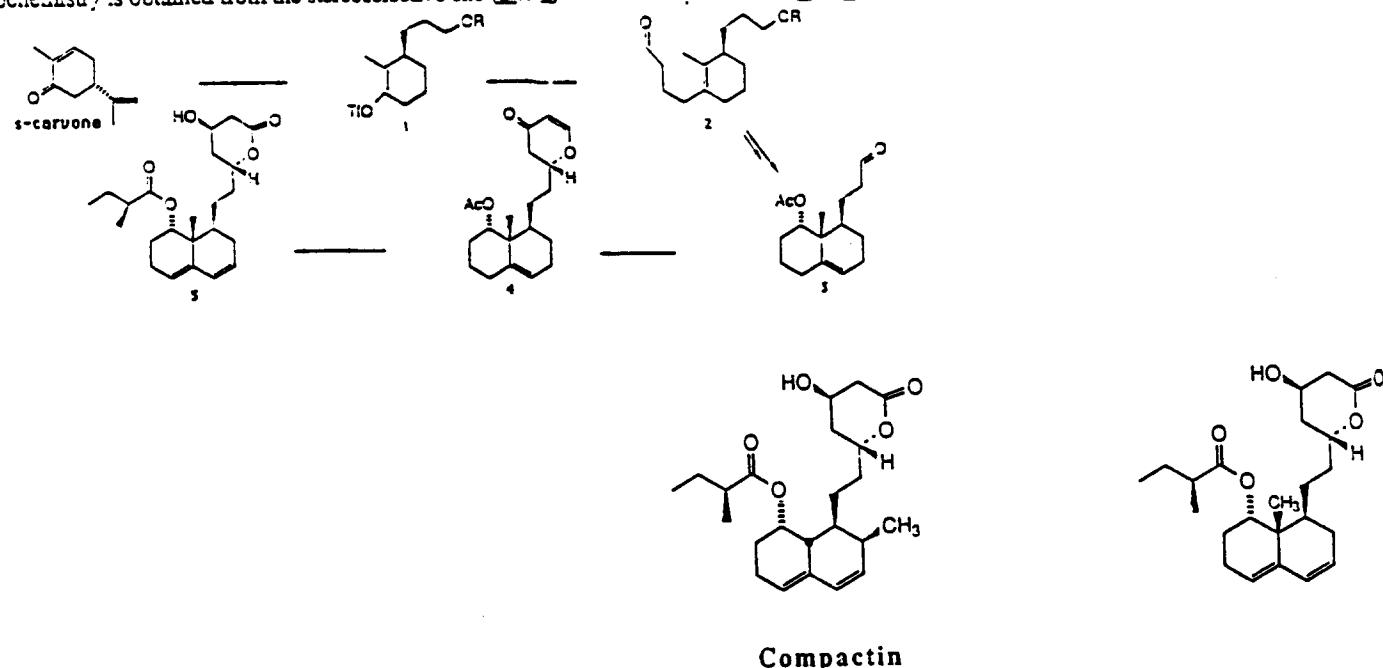


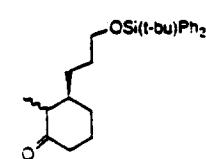
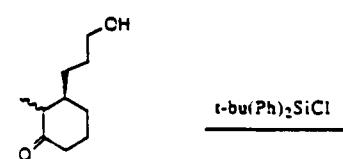
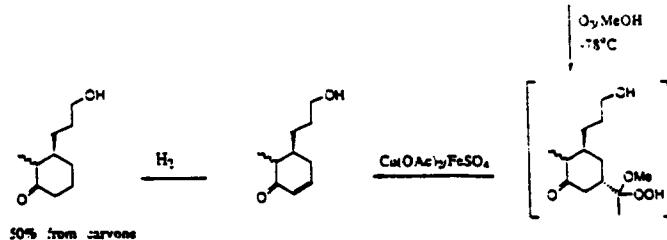
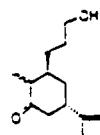
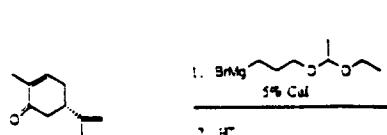




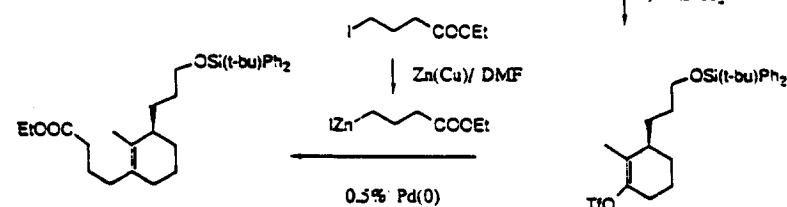
TOTAL SYNTHESIS OF THE ANGULAR METHYL REGIOISOMER OF
COMPACTIN. P.C. TANG, N.K. Chadha, P.M. Wovkulich, and M.R. Uskokovic,
Natural Products Chemistry Department, Hoffmann-La Roche Inc., Nutley, NJ 07110.

Total synthesis of the angular methyl regioisomer **5** of compactin from *s*-carvone will be described. Conclusions of stereochemistry is obtained from the stereoselective ene (**2** to **3**) and hetero Diels-Alder (**1** to **4**) reactions.

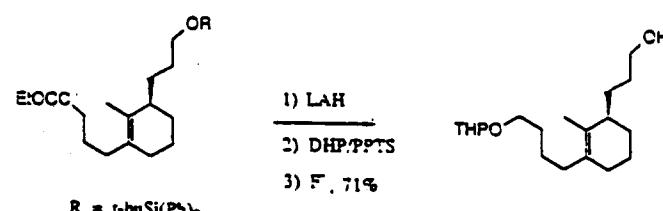
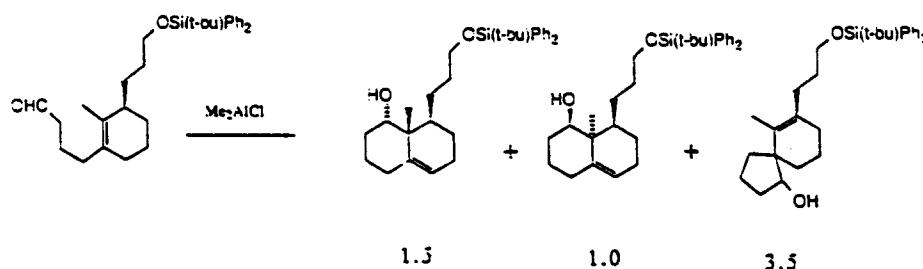




1) TMSI/HMDS
 2) MeLi
 3) PhNTf₂



72% from hydroxyketone



1) (CH₃CO)₂O
 2) H⁺, 85%

