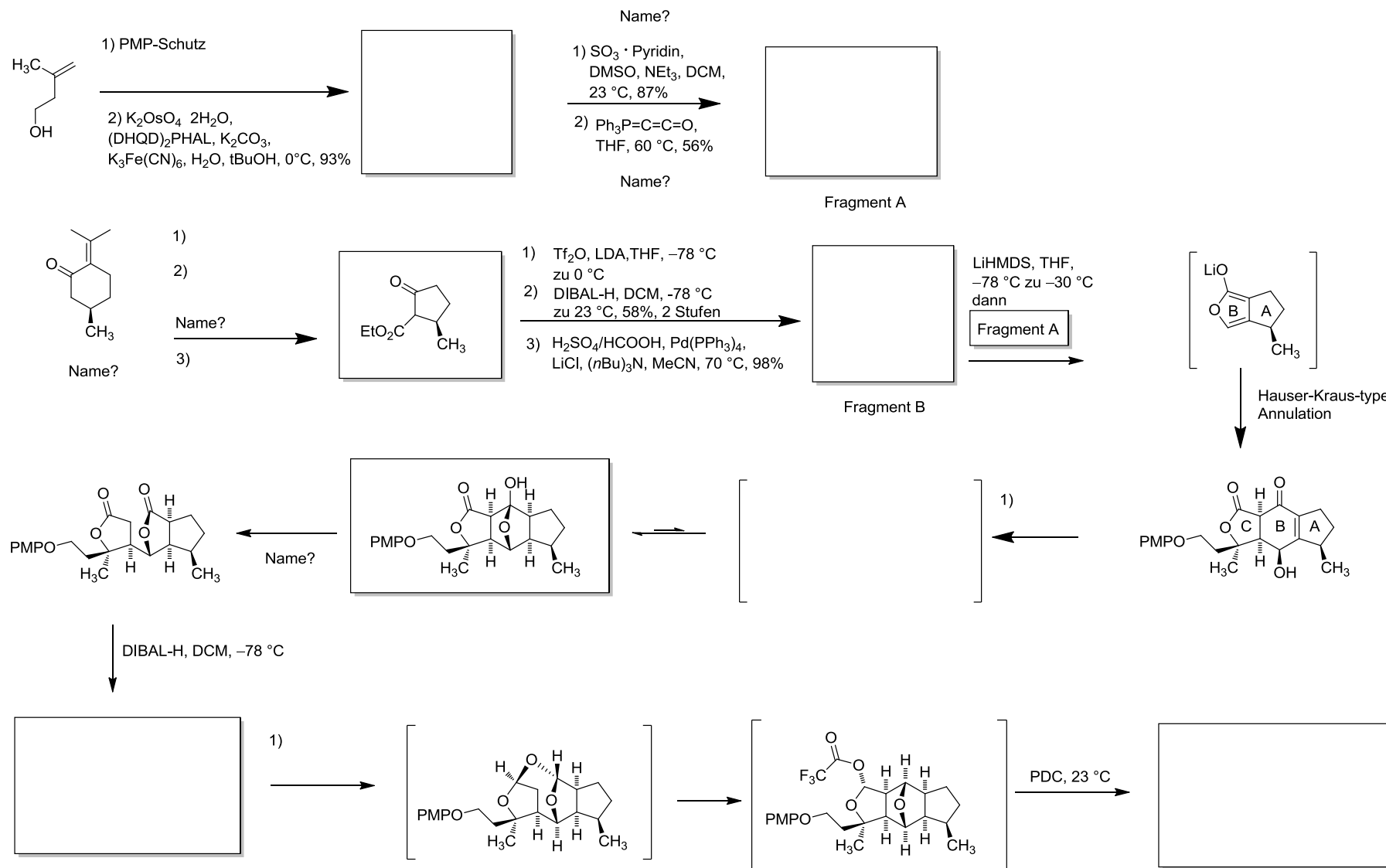
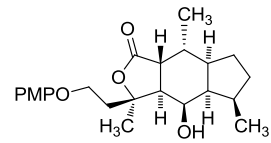
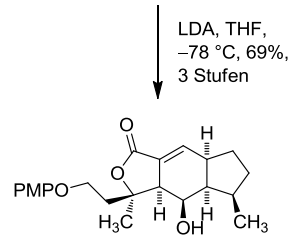


A General Entry to Antifeedant Sesterterpenoids: Total Synthesis of (+)-Norleucosceptroid A, (-)-Norleucosceptroid B, and (-)-Leucosceptroid K

C. L. Hugelshofer and T. Magauer*

Angew. Chem. Int. Ed. **2014**, 53, 11351–11355.

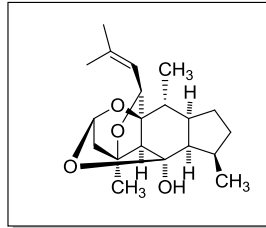
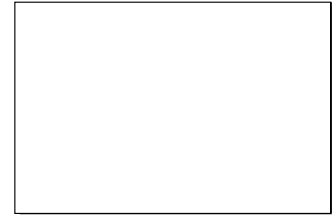




1) DIBAL-H, DCM, -78 °C
2) MsCl, NEt₃, 1,2-Dichlorethan,
75 °C, 53%, 2 Stufen



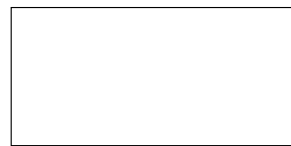
1) DMDO =
Dimethyldioxiran, Aceton,
DCM, -78 °C zu -30 °C
2) AlCl₃,
2-Methyl-1-propenylMgBr,
THF, DCM, -78 °C, 52%
3) PCC, DCM, 4 A Molsieb,
23 °C, 87%



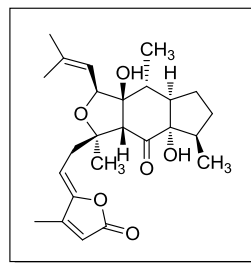
(+)-11-Deoxynorleucosceptroid A

1) CAN, Pyridin, MeCN, H₂O, 0 °C, 70%
2) DMP, NaHCO₃, DCM, 23 °C, 66%

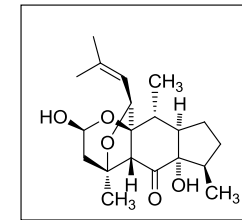
1) LiHMDS, O₂, P(OEt)₃,
-78 °C zu -35 °C
2) IBX, DMSO, 23 °C



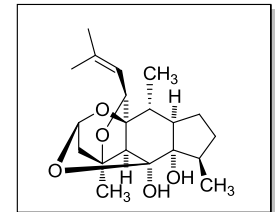
1)
2)



(-)-Leucosceptroid K



(-)-Norleucosceptroid B
10% über 2 Stufen



(+)-Norleucosceptroid A
40% über 2 Stufen