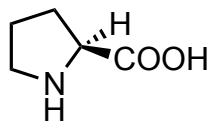
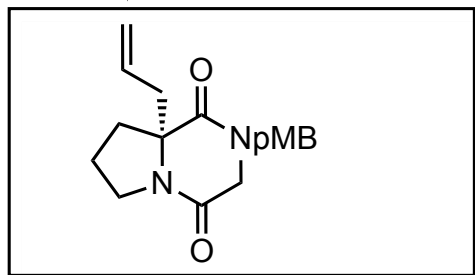
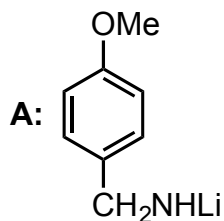


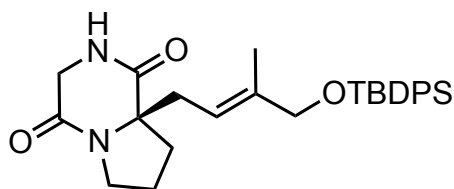
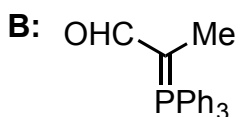
Stereocontrolled total synthesis of (+)-paraherquamide B
Timothy D. Cushing, Juan F. Sanz-Cervera, and Robert M. Williams
J. Am. Chem. Soc. **1993**, 115, 20, 9323-932.



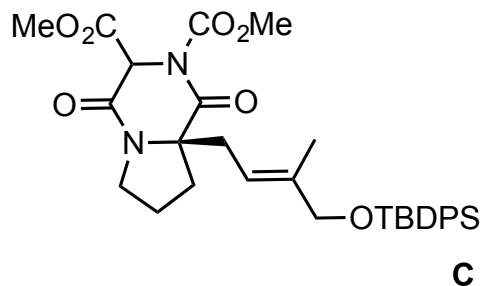
- 1) pivalaldehyde
- 2) LDA, allyl bromide
- 3) **A**
- 4) BrCH₂OBr, K₂CO₃
- 5) NaOH



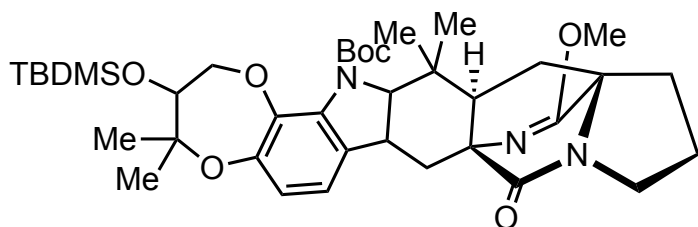
- 6) O₃, Me₂S
- 7) **B**
- 8) CAN
- 9) NaBH₄
- 10) TBDPSCI



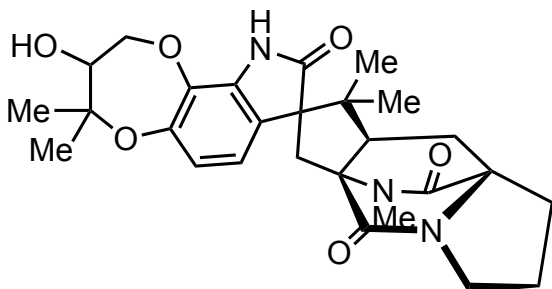
- 11) nBuLi, MeOCOCI
- 12) LHMDs, MeOCOCI



26) NCS, Me₂S
27) TBDMSOTf, lutidine
28) NaH
29) PdCl₂, AgBF₄



30) NaBH₄
31) AlH₃-ME₂NEt, Et₃Al, NaCNBH₃
32) NaH, MeI
33) TFA
34) t-BuOCl, pyridine
35) THF, H₂O, TsOH



36) (PhO)₃PMel, DMPU

