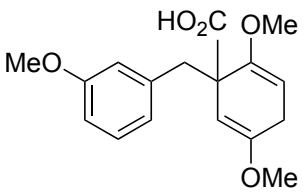
Group Seminar Tommy January 2008: **Galbulimima Alkaloid GB 13:** Mander, L.N.; McLachlan, M.M. *JACS* **2006**, *125*, 2400-2401.



1) 60% H_2SO_4, acetone 80%
2) AcOH, H_2O 89%

3) MOMCl, Huenig's, DCM 97%

A

1) NaH, EtOCHO
2) NEt_3, MeCN, *p*-$NO_2C_6H_4SO_2N_3$

3) hυ, THF, HMDS, 0°C; H_3O^+ (68% 3 steps)

1+2) Regitz procedure
3) Named reaction

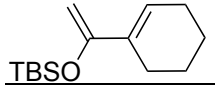
B

1) Cl_3COCl, TEA, 98%

2) KDA, Ph_2Se_2, H_2O_2, THF 74%

C

1) $Yb(thd)_3$, 110°C 87%



2) TBAF, THF 74%
3) LAH, THF 94%
4) MOMCl, DMAP, Huenig's base, DCM 96%

D

1) Li, NH_3

2) HCl, MeOH, THF 55%

E

1) LAH, THF
2) mCPBA, DCM
3) DMP, $NaHCO_3$ 77%

4) *p*-$NO_2ArSO_2NHNH_2$, Py, EtOH, THF 76%

Named reaction

F

H_2NOH HCl, Py, 100°C

G

1) $ZrCl_4$, $NaBH_4$
2) Zn, AcOH, Et_2O
3) TFAA, TEA, DCM

32% 4 steps

H

1) dil. HCl
2) DMP, DCM
3) MOMCl, DMAP, Huenig's base, DCM 57%

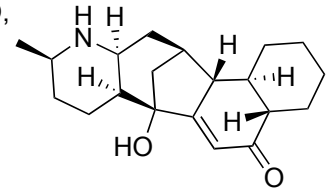
4) LDA, TMSCl, THF
5) $Pd(OAc)_2$, DMSO, MeCN 82%

Named reaction

I

1) K_2CO_3, H_2O, 60°C 90%

2) dil. HCl, acetone 37%



(+/-)-G.B. 13

thd = 2,2,6,6-tetramethyl-3,5-heptane-dionate