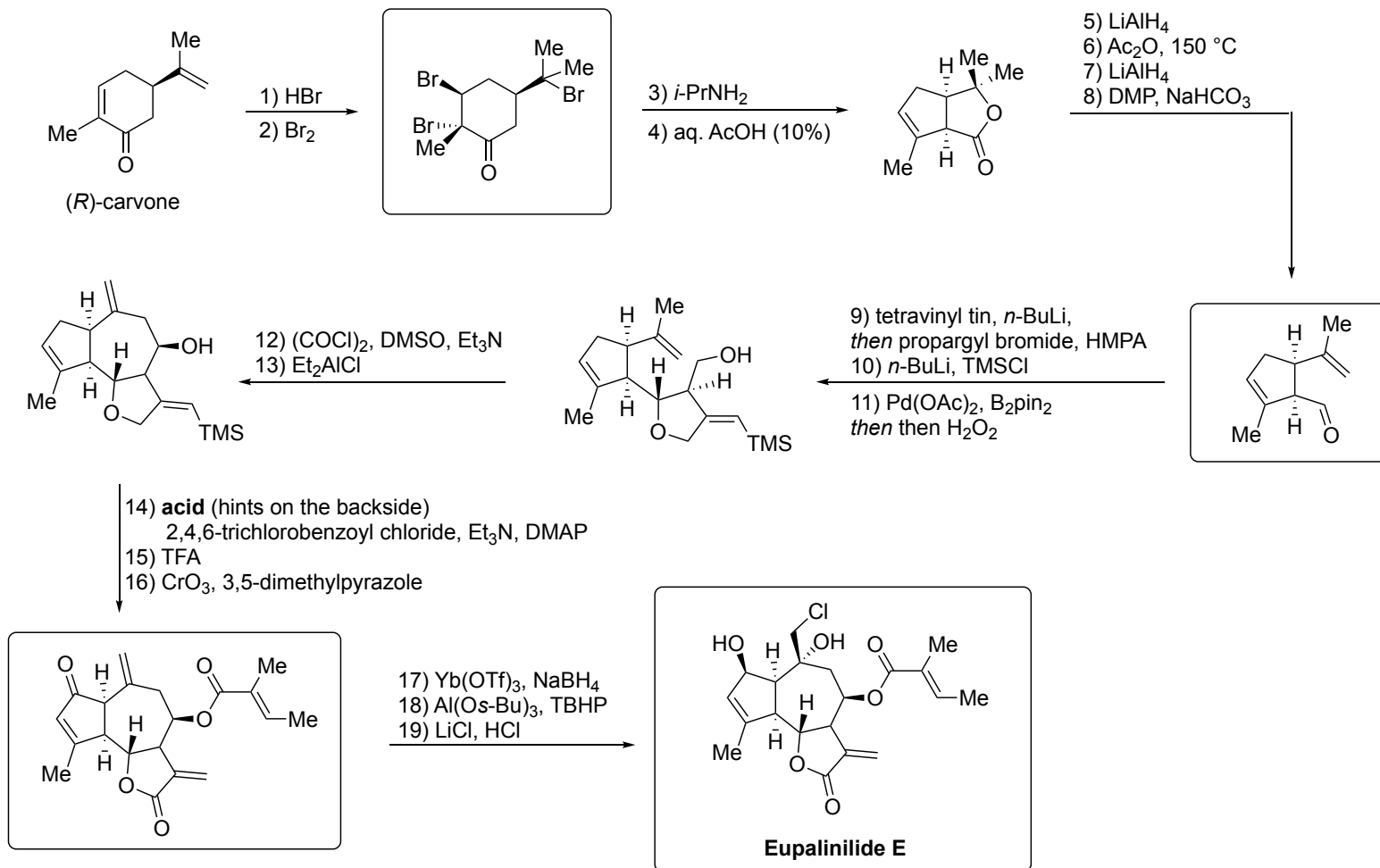


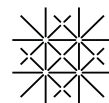
E40: Total Synthesis of Eupalinilide E



Total synthesis: T. C. Johnson, M. R. Chin, T. Han, J. P. Shen, T. Rana, D. Siegel, *J. Am. Chem. Soc.* **2016**, *138*, 6068–6073.

First key step: J. Wolinsky, R. O. Hutchins, T. W. Gibson, *J. Org. Chem.* **1968**, *33*, 407–411.

Second key step: J. Marco-Martinez, V. Lopez-Carrillo, E. Bunuel, R. Simancas, D. J. Cardenas, *J. Am. Chem. Soc.* **2007**, *129*, 1874–1875.



University
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Sparr Group Seminar
30.03.2017
Reto Witzig

Acid:

- Mass: $[M^-] = 99.045$
- ^1H NMR (DMSO- d_6 , 298 K): 12.06 (s, 1H), 6.74 (m, 1H), 1.74 (dq, 3H, $J = 1.31, 6.62$ Hz), 1.73 (d, 3H, $J = 1.31$).
- ^{13}C NMR (DMSO- d_6 , 298 K): 169.17, 136.78, 129.08, 14.55, 13.33.
- NOESY: 12.06 \rightarrow 6.74 (weak)
12.06 \rightarrow 1.73 (strong)
1.74 \rightarrow 1.73 (strong)

Tiglic acid

