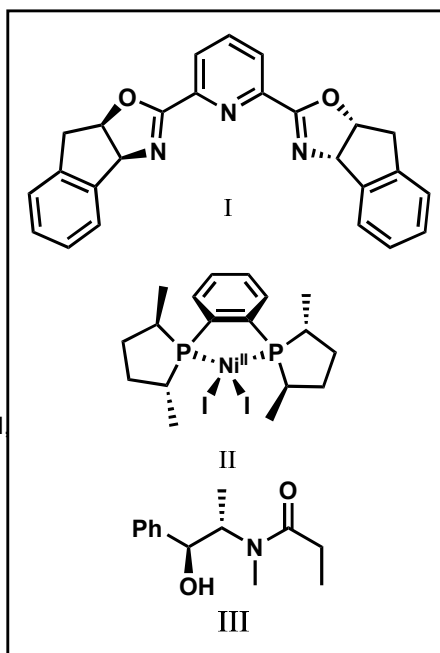
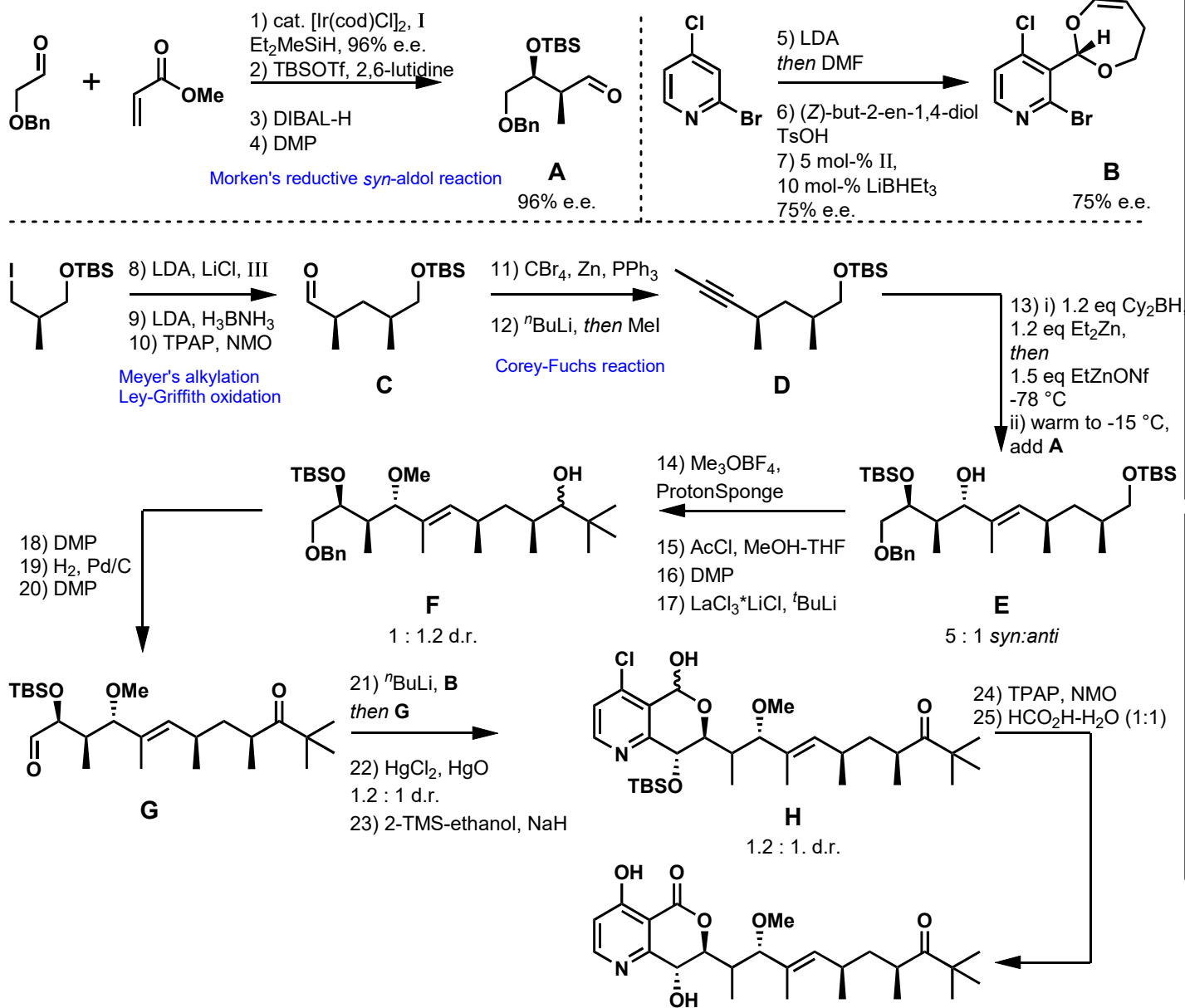


"Genome-based discovery and total synthesis of janustatins, potent cytotoxins from a plant-associated bacterium"

R. Ueoka *et al.*, *Nat. Chem.*, **2022**, vol. 14, pp. 1143

named reactions highlighted in blue

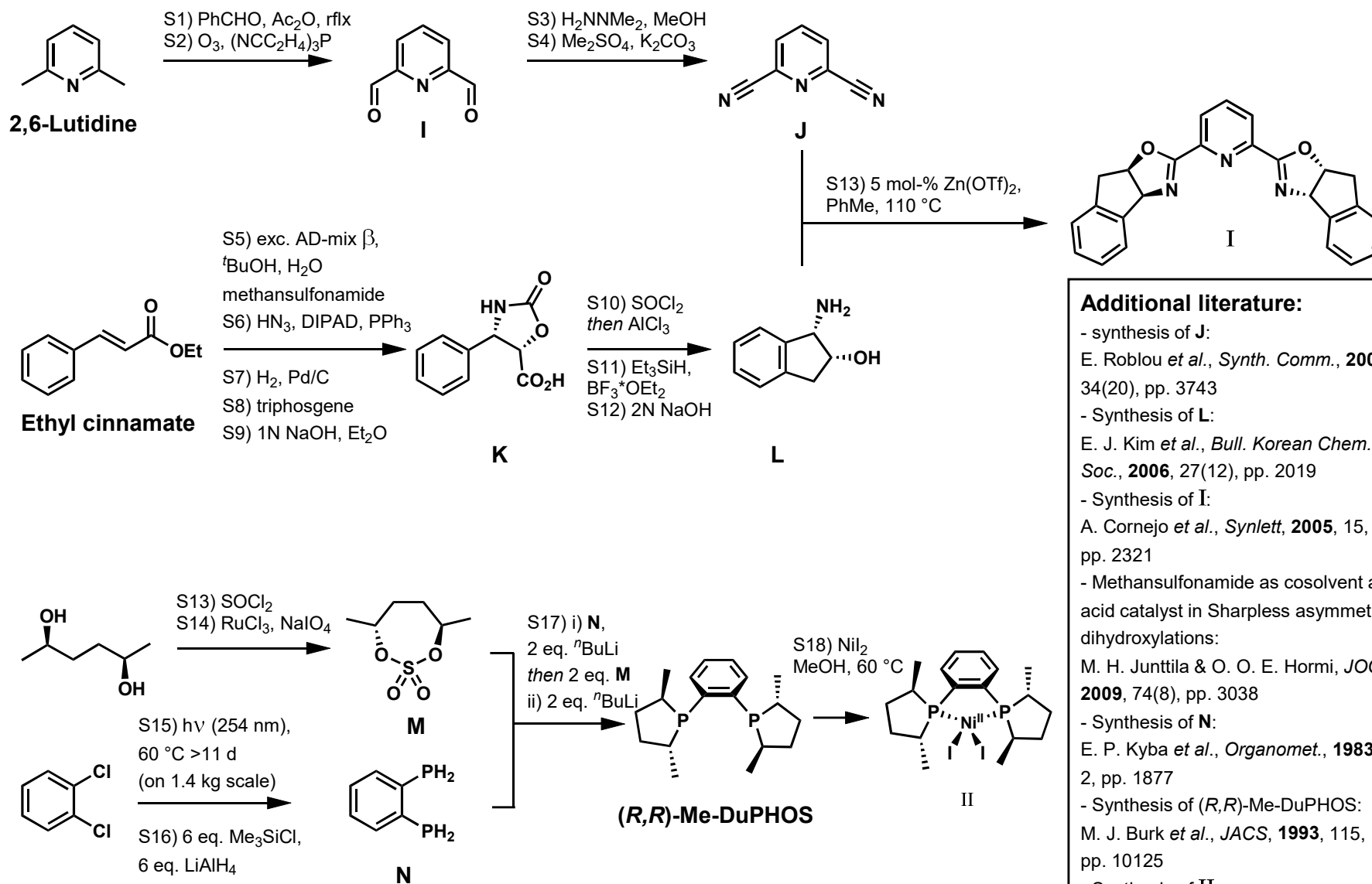
Denksport Lukas Holz 13.09.2023



Additional literature:

- synthesis of **A** is literature known:
C.-X. Zhao *et al.*, *Org. Lett.*, **2001**,
3(12), pp. 1829
- Asymmetric isomerization of dihydro-
1,3-dioxepins (step 7):
H. Frauenrath *et al.*, *ACIE*, **2001**, 40(1),
pp. 177
- Cram-chelation-controlled addition
to β-silyloxy aldehydes (step 13):
G. R. Stanton *et al.*, *Org. Lett.*, **2012**,
14(13), pp. 3368

Preparations of complexes and ligands



Additional literature:

- synthesis of **J**:
E. Roblou *et al.*, *Synth. Comm.*, **2004**, 34(20), pp. 3743
- Synthesis of **L**:
E. J. Kim *et al.*, *Bull. Korean Chem. Soc.*, **2006**, 27(12), pp. 2019
- Synthesis of **I**:
A. Cornejo *et al.*, *Synlett*, **2005**, 15, pp. 2321
- Methansulfonamide as cosolvent and acid catalyst in Sharpless asymmetric dihydroxylations:
M. H. Junttila & O. O. E. Hormi, *JOC*, **2009**, 74(8), pp. 3038
- Synthesis of **N**:
E. P. Kyba *et al.*, *Organomet.*, **1983**, 2, pp. 1877
- Synthesis of **(R,R)-Me-DuPHOS**:
M. J. Burk *et al.*, *JACS*, **1993**, 115, pp. 10125
- Synthesis of **II**:
M. Shevlin *et al.*, *JACS*, **2016**, 138(10), pp. 3562