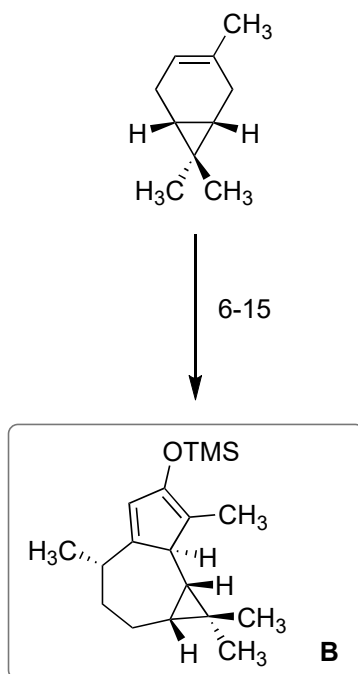
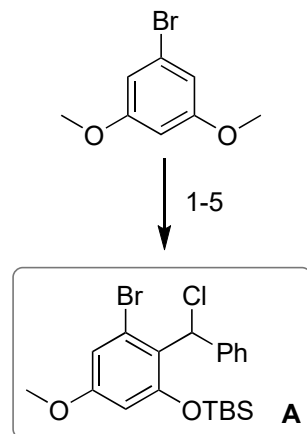


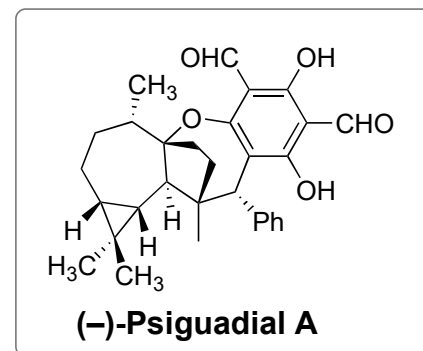
Enantioselective Total Synthesis of (–)-Psiguadial A

L. P. O'Grady, M. Achtenhagen, M. F. Wisthoff, R. S. Lewis, K. Pfeifer, W. Zheng, M. I. Martin, G. P. A. Yap, W. J. Chain, Angew. Chem. Int. Ed.. 2025, e202506537. <https://doi.org/10.1002/anie.202506537>



- 1) POCl₃, DMF
- 2) BBr₃
- 3) TBSOTf, NEt₃
- 4) PhMgBr
- 5) SOCl₂, pyr

- 6) O₃, DMS then CeCl₃ · 7H₂O, HC(OCH₃)₃
- 7) LDA, TMSCl
- 8) SnCl₄
- 9) CSA
- 10) LDA then allyl bromide
- 11) L-selectride, MeI
- 12) PdCl₂, CuCl, O₂
- 13) NaOt-Am
- 14) LDA, MeI
- 15) LDA, TMSCl



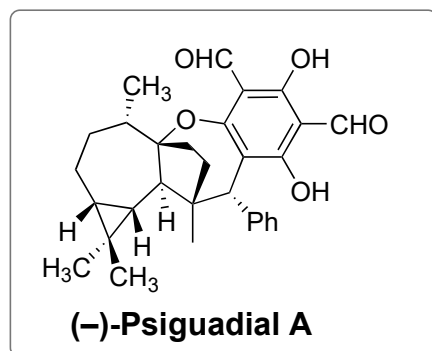
8) Name of the reaction?
Mukaiyama-type aldol reaction

12) Name of the reaction?
Wacker oxidation

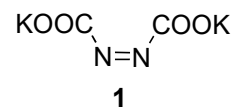
A + B



16-26



- 16) TMAF
- 17) NaH, $(\text{CH}_3)_2\text{SO}_4$
- 18) DIBAL-H
- 19) CSA
- 20) AcOH, **1**
- 21) BCF, PMDS
- 22) TBAF then H_2SO_4
- 23) TBSOTf, NEt_3
- 24) *n*-BuLi, $\text{B}(\text{OCH}_3)_3$, H_2O_2
- 25) TBAF
- 26) FAA, Ac_2O



21) Name of the reaction?

Piers-Rubinsztajn reaction

