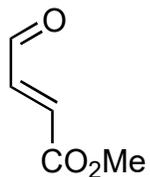
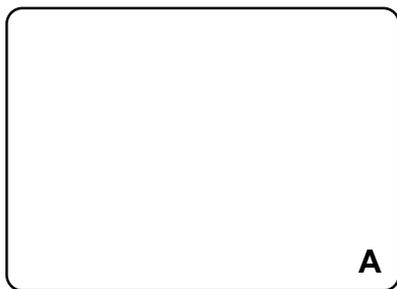


Short, Enantioselective Total Synthesis of (+)-Ineleganolide

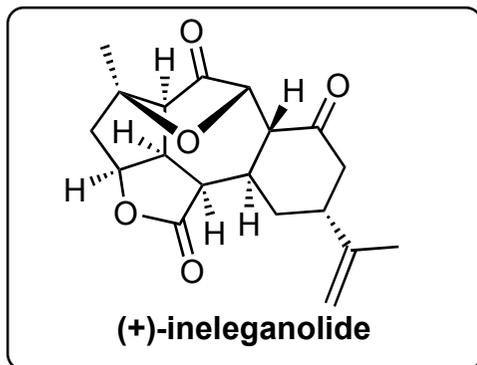
K. Yu, A. Gorou, D. Huang and T. J. Maimone
J. Am. Chem. Soc. **2025**, 147, 44727–44732.



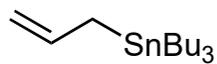
1-5



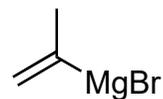
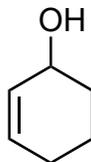
6-10



- 1) (S)-BINOL, Ti(O*i*Pr)₄, **1**
- 2) Pd[(-)-sparteine]Cl₂, O₂, H₂O
- 3) LiHMDS, TBSCl *then* **2**
- 4) Co₂(CO)₈
- 5) TBSOTf, 2,6-lutidine *then* HCl, HF•Py



- 6) **3**, *hν* (300 nm) *then* HCl
- 7) SO₂Cl₂, Et₃N, DMAP
- 8) Sml₂, MeOH
- 9) (PhSeO)₂O, pyridine
- 10) **4**, CuBr•DMS



1) Name of reaction?

2) Name of reaction?

4) Name of reaction?

6) Show mechanism. *Hint: ~4 transformations and complete scaffold construction.*

