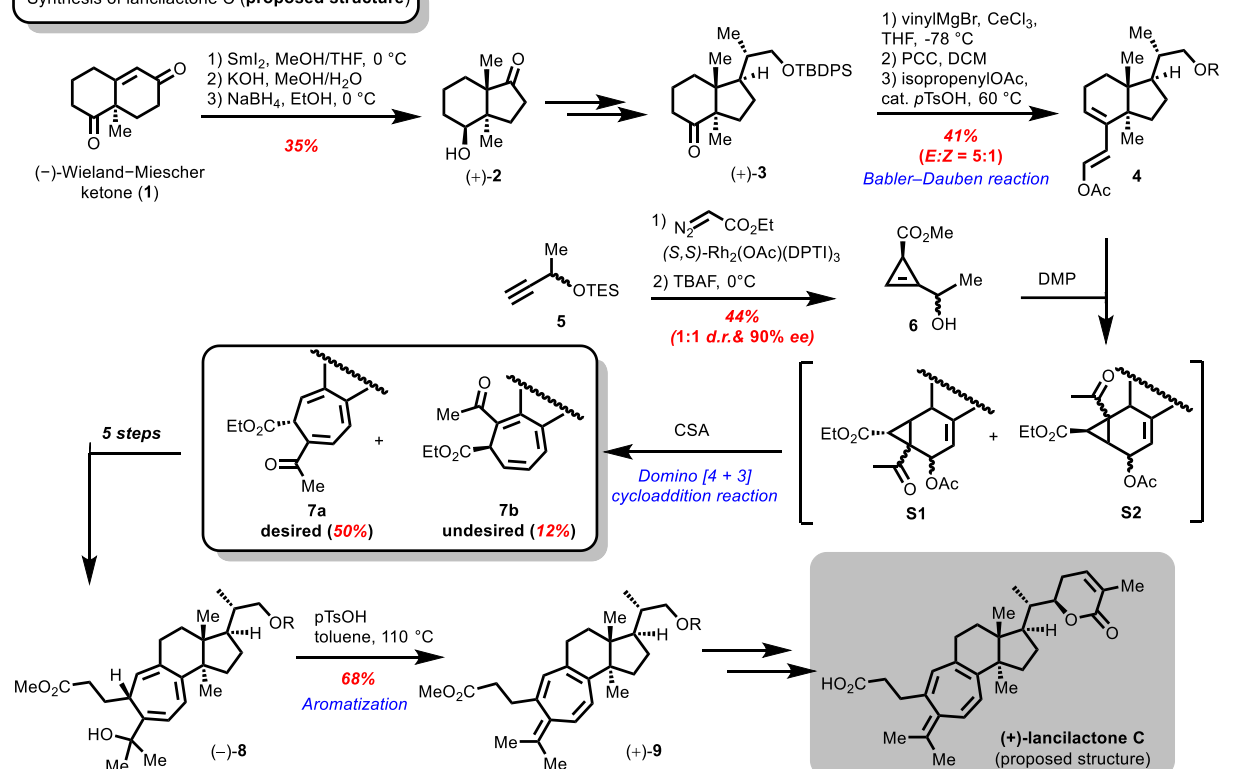
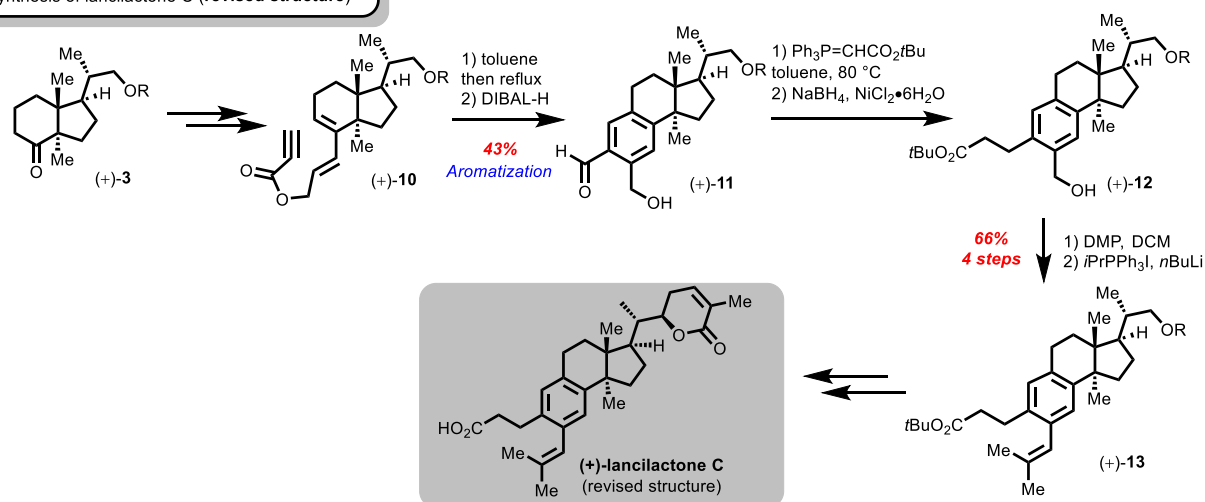


Synthesis of lancilactone C (proposed structure)



Synthesis of lancilactone C (revised structure)



Significance:

Tsukano and coworkers have accomplished the first total synthesis of lancilactone C (proposed structure). Meanwhile, they have revised the structure based on the total synthesis of lancilactone C according to its plausible biosynthetic pathway.

Comment:

- Construction of trans-dimethylbicyclo[4.3.0]nonane mediated by samarium(II) iodide.
- Domino [4 + 3] cycloaddition reaction involving oxidation, Diels–Alder reaction, elimination, and electrocyclization..