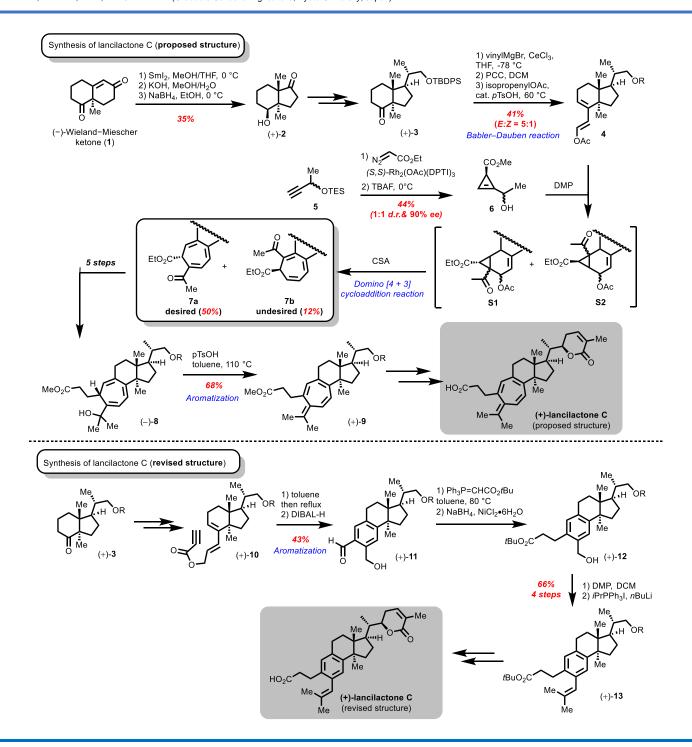
Total Synthesis and Structure Revision of (+)-Lancilactone C. *J. Am. Chem. Soc.* **2023**, *145*, 14587–14591, DOI: doi.org/10.1021/jacs.3c04124 H Kuroiwa, S Suzuki, K Irie, and C Tsukano*. (Graduate School of Agriculture, Kyoto University, Japan)



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..