

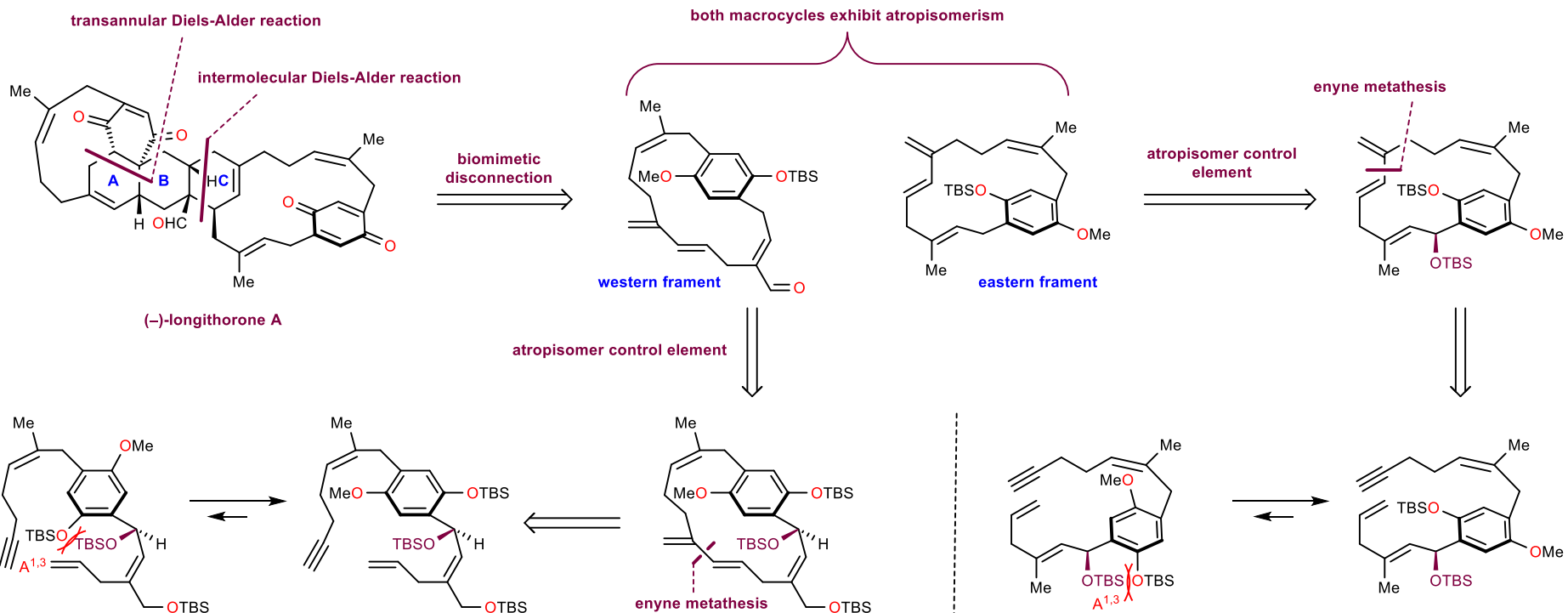
- Longithorone A was isolated in 1994. It is weakly cytotoxic.
- Highly complex skeleton with two macrocycles (possible atropisomerism)
- The only total synthesis has been completed by the Shair group in 2002.



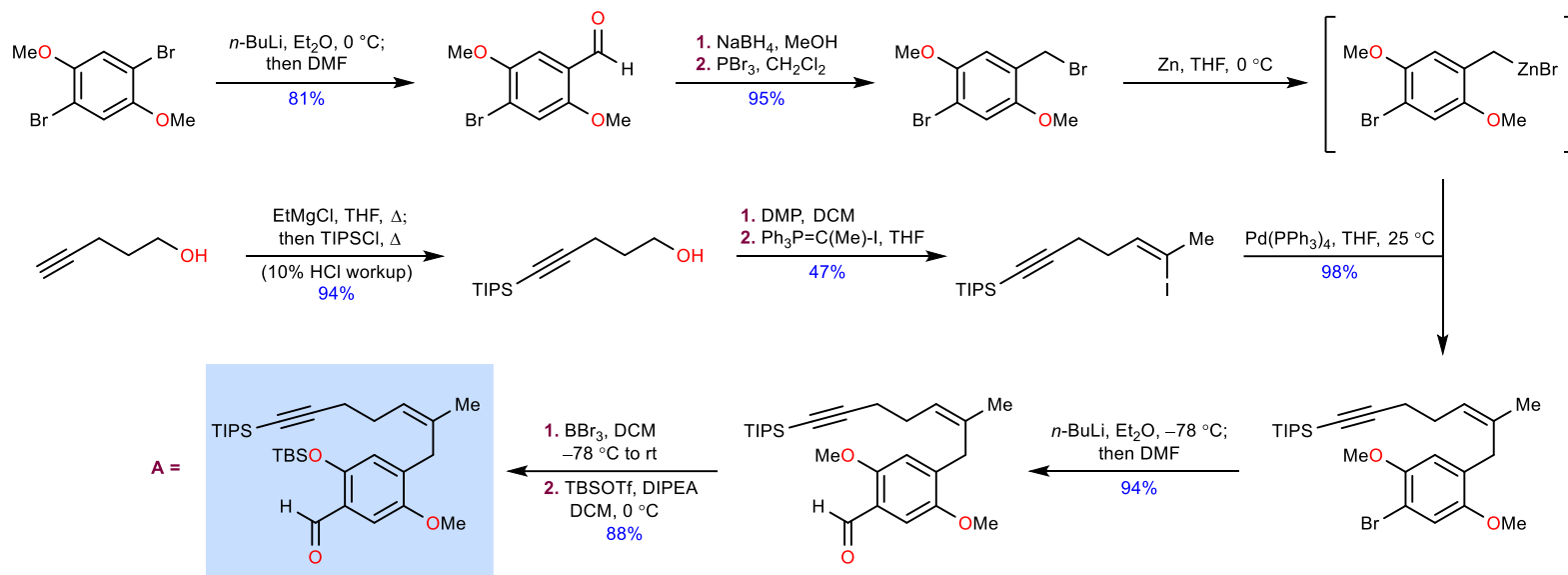
Schmitz, F. J. et al. *J. Am. Chem. Soc.* **1994**, 116, 12125
<https://doi.org/10.1021/ja00105a092>

Shair, M. D. et al. *J. Am. Chem. Soc.* **2002**, 124, 773
<https://doi.org/10.1021/ja016585u>

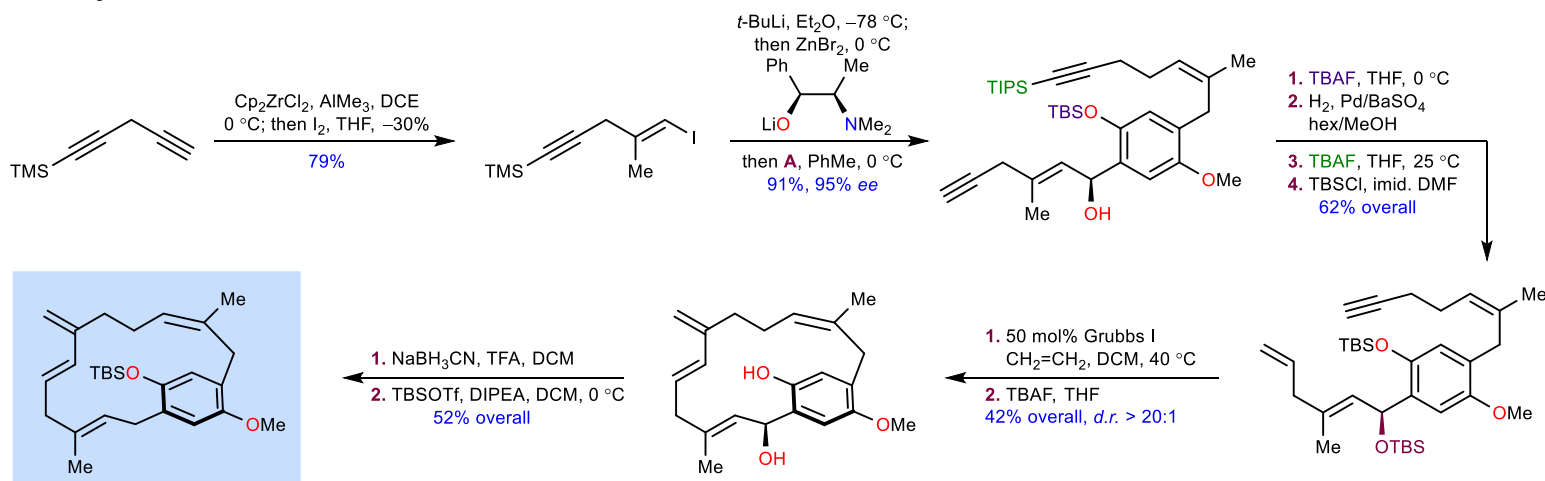
Retrosynthetic Analysis:



Synthesis of a Common Intermediate for Both Macrocycles:



Eastern Macrocycle:



Western Macrocycle and Completion of the Synthesis:

