

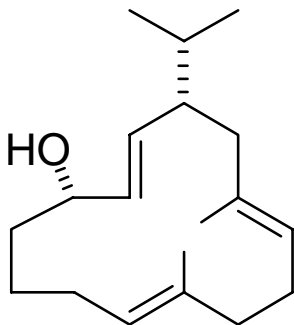
## Chem 535 Synthetic Organic Chemistry

DATE of ISSUE: Tuesday, April 13, 2004

DATE DUE: Friday, April 23, 2004

### Problem Assignment THREE

- **You must work alone.** Put your student number on the upper right-hand corner of each page. Number every page.
- **List and draw exact structures and reactions of the closest precedent to your proposed synthetic operations for every step you reference.** I will take off points for steps for which there is no literature reference. **Do not cite text books; do not cite patents that do not explicitly define procedures and molecules.**
- Photocopy important pages (not the whole paper) from journals and attach them to your homework. Make sure that the reference (author, journal, vol, page number) is on the page. If need be, write it at the top of the photocopy. Put a page number on the photocopied page. Refer to the photocopied page in your text. **Don't make it difficult for the grader to conclude that someone can do the synthesis. Use a highlighter or circle the pertinent sections of the work you photocopy. Do not use a red pen.**



CBT:

- 1 (10 pts) Write a short paragraph discussing the molecular complexity in the target structure?
- 2 (40 pts) After the development of a synthetic plan with retrosynthetic analysis—I don't want to see it this time, develop one enantiospecific forward synthesis with proposed reagents and references.

There are more than a few issues to consider while solving this problem . . . . I considered telling you about them, but that would give away problem 3-1. Doing a good job on 3-1 before jumping into 3-2 is a good idea. Bearing in mind 3-1, while working through 3-2 is also a good idea. Good luck and remember that I am available for consultation.