**Problem Session 02.03.2023 – Vincent**

**Exercise 1:**

Answer the different questions on this biomimetic **Preuisolactone A** total synthesis. (A. J. E. Novak, C. E. Grigglestone, D. Trauner**,** *J. Am. Chem. Soc.* **2019**, *141*, 15515–15518)



**Exercise 2:**

Find the missing pentacyclic intermediate **4** and propose conditions to reach **(+)-Aberrarone**. *(*W. M. Amberg, E. M. Carreira, *J. Am. Chem. Soc.* **2022**, *144*, 15475–15479).



**Exercise 3:**

Propose a retrosynthesis of **(+)-dendrowardol C.**

**Isolation paper:** *W.-W. Fan*, *F.-Q. Xu*, *F.-W. Dong*, *X.-N. Li*, *Y. Li*, *Y.-Q. Liu*, *J. Zhou*, *J.-M. Hu*, *Nat. Prod. Bioprospect.* *2013*, *3*, *89*–*92.*

**Exisiting total synthesis**: H. Wolleb, E. M. Carreira*, Angew. Chem., Int. Ed*. **2017**, *56*, 10890-10893)



**Exercise 4:**

Find the missing intermediates for the total synthesis **Peyssonnosol.** (G. A. Chesnokov, K. Gademann**,** *J. Am. Chem. Soc.* **2021**, *143*, 14083–14088)

