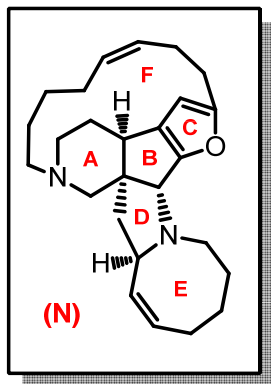


Concise Synthesis of (-)Nakadomarin A

(-) Nakadomarin A (**N**) is a complex marine alkaloid of the manzamine family. The challenging structure and impressive biological activities (anticancer & antimicrobial) have made **N** an attractive target compound for the synthetic community



Let's have a look to Dixon's synthesis of **N**. The group has developed a strategic plan divided in two parts...

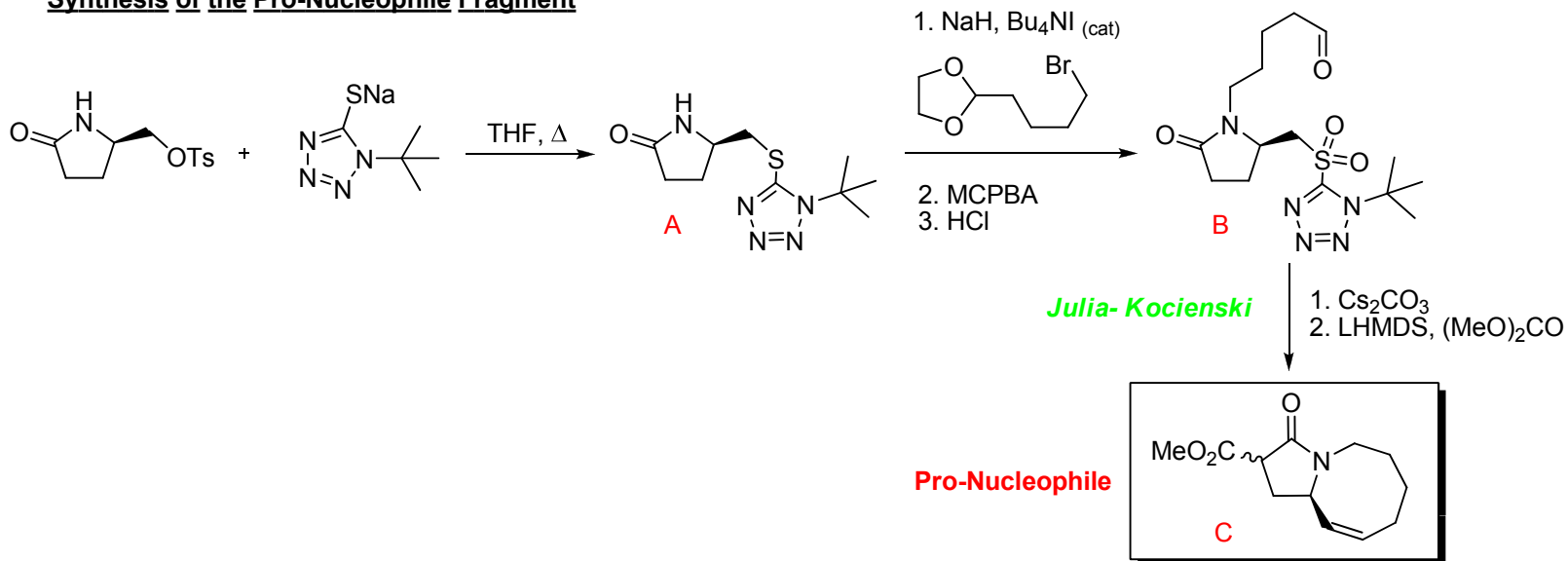
1. Find out compounds **A** to **F**
2. During the condensation step of **C+C'** to **D** two stereocenters are created. Explain the origin of stereoselectivity for each of them



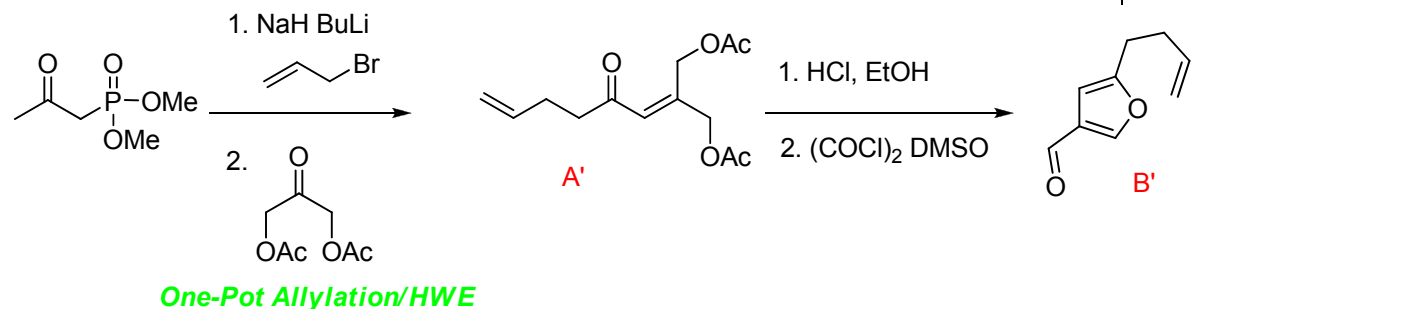
Zacharias Amara
Doctorant 2^{ème} année
Equipe Chimie Organique

Synthesis of (-)-Nakadomarin A: Part 1

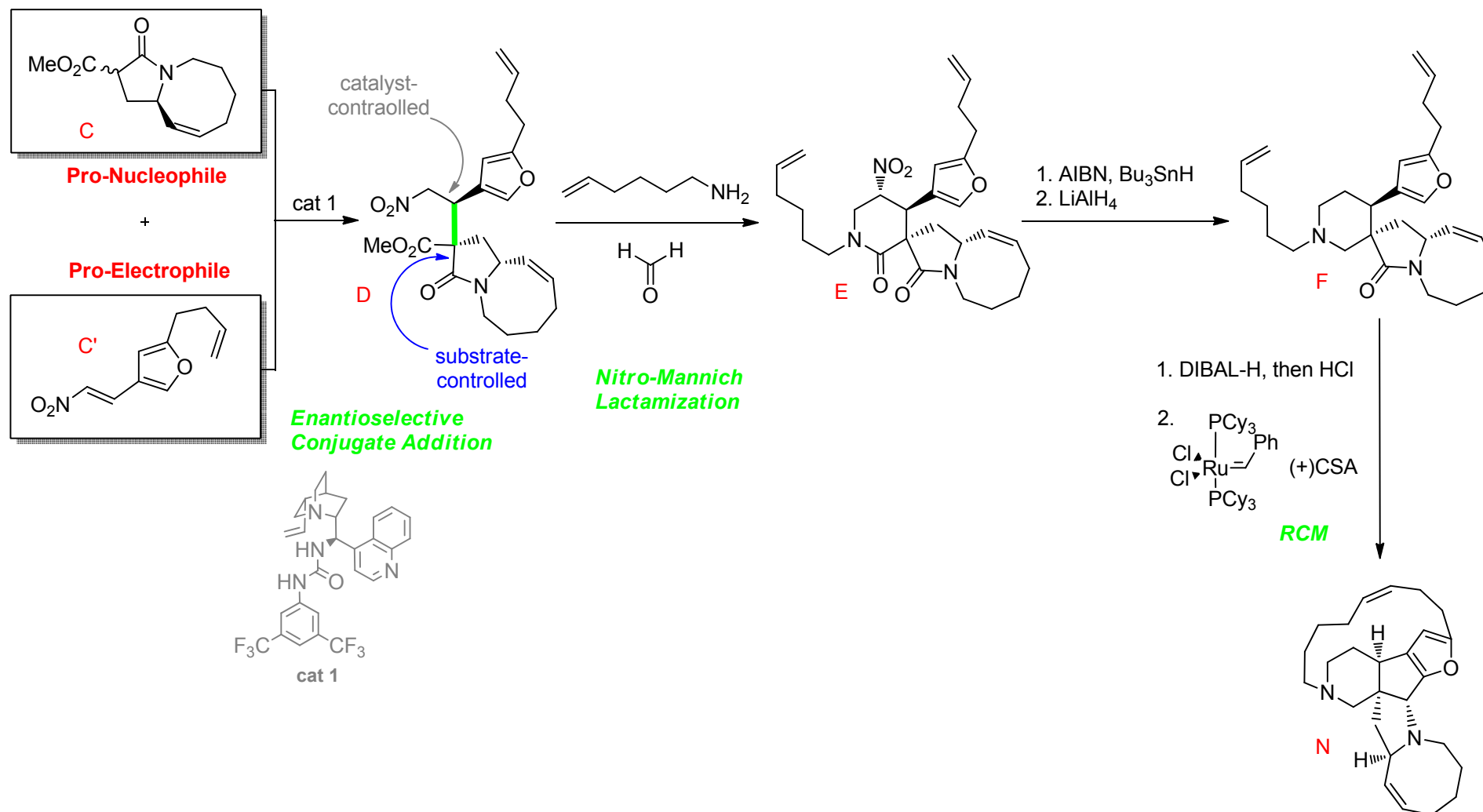
Synthesis of the Pro-Nucleophile Fragment



Synthesis of the Electrophile Fragment



Synthesis of (-)-Nakadomarin A: Part 2



J. Am. Chem. Soc., 2009, 131 (46), pp 16632–16633