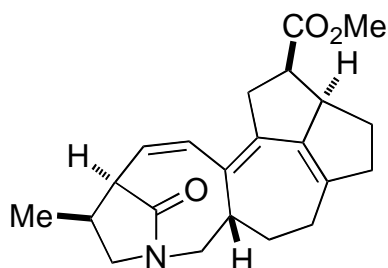


## Problem Set 14<sup>th</sup> March 2011

### Synthesis Discussion

Work in groups to find a plausible and synthetically practical (on paper at least) route to daphhimalenine A.

Your synthesis should include a retrosynthesis and a “doable” forward synthesis (i.e., protecting groups should be included – not just as PG etc...).



**daphhimalenine A**

Your synthesis should include aspects of both organo- and transition metal catalysis with clearly drawn transition states accompanied by clear stereochemical explanations.

In planning your synthesis it is important to dissect the structural elements of the molecule and be aware of potential synthetic pitfalls in the forward synthesis.

Everyone in your team is responsible for planning the synthesis and contributing equally. Your team should present the synthesis how you see fit, e.g., powerpoint etc...

The teams are:

#### **Team 1**

Jamie  
Robert  
James  
Amelie  
Lynn

#### **Team 2**

Anita  
Paul  
Mari  
Pauline  
Pamela  
Steven

#### **Dream Team (Optional!)**

Dr. Howarth  
Prof. Adams  
Dr. Bebbington  
Dr. Lee

This is meant to be fun, **not a test!!** So when the opposing team are presenting, feel free to give them a grilling!