ORAL DEFENCE ANNOUNCEMENT

WANG KONGCHEN

SYNTHESIS OF CURVULONE B AND ALLAHABADOLACTONE, AND THE DEVELOPMENT OF A DIASTEREOSELECTIVE TSUJI-TROST CYCLISATION

The synthesis of Curvulone B was achieved featuring a strategy of Cross metathesis and oxa-Michael addition in the construction of the desired cis-THP ring. The total synthesis of Allahabadolactone A was built though a route featuring alkyne hydroboration, stereospecific Suzuki coupling and an IMDA reaction. A diastereoselective Tsuji-Trost cyclisation was developed and this method will be applied in the synthesis of multi-substituent six-membered rings.

Date: 15 November 2017
Time: 5.00 PM
Venue: SPMS-LT1
Supervisor: Assoc Prof Roderick Bates