In synthetic organic chemistry, the total syntheses of natural products have realized various methods. Because the complex structures of target molecules require well-considered synthetic strategies, they often inspire the development of novel reactions. Transformations of densely functionalized molecules provide opportunities to discover novel phenomena. Consequently, expanding synthetic organic chemistry has had a positive influence on drug development, including the construction of chemical libraries, derivatization of lead compounds, and large-scale preparation of drugs and drug candidates. Hence, we have focused on continuing our synthetic studies on natural products. In this lecture, our recent syntheses of natural products, which include lepistine and lepenine, are introduced.

**CBC SEMINAR ANNOUNCEMENT**

Professor Satoshi Yokoshima  
Nagoya University  

*Synthesis of Natural Products with Poly Cyclic System*

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**Date:** 11th March 2015 (Wednesday)  
**Time:** 4:30pm–6:00pm  
**Venue:** NTU SPMS CBC Building Level 2, Conference Room  
**Host:** Prof Loh Teck Peng