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Alkyne annulation: Step-economic construction of core structures of natural products and drugs

We are interested in development of the applications of alkynes in the synthesis of carbo- and heterocyclic compounds via their annulation with high-atom utilization and step-economy. In this presentation, we would like to report the recently developed protocols for the synthesis of natural products such as Precocene I (from Ageratum houstonianum), Cassiarin C (from Cassia siamea) from the cyclocondensation of alkynes with the activation of C-H bonds, and the synthesis of the drugs such as h5-HT2A antagonist and RITA. These synthetic protocols have the significant advantages of easily available starting materials, efficient and step-economic processes.

Biography

Ruimao Hua received his Doctor of Philosophy degree in Environmental Chemistry and Engineering from Tokyo Institute of Technology (Japan) in 1996, he then spent six years at the National Institute of Materials and Chemical Research to develop the methodologies of organic synthesis. In April of 2002, he joined Department of Chemistry at Tsinghua University, and his research interests are on the alkyne chemistry & organic materials for displays (liquid crystal display & OLED display).

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