

"Recent Advances in Bromination Reactions"

Yeung Yin Yeung

Assistant Professor

National University of Singapore, Singapore

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Time: 16:00 – 17:30

**Venue: S1 1F. South Seminar Room, Faculty of Pharmaceutical Sciences,
The University of Tokyo**



Halogenation is an important class of organic transformation. Over the past decades, reactions including cohalogenation, haloetherification, halolactonization and polyene cyclization are well documented.[1] These reactions have been applied in many natural products and drug molecules synthesis. One of the research focuses in our research group is on the development of novel bromination using N-bromosuccinimide (NBS), an easy handle and inexpensive halogen source. Recently, we have developed a catalyst-free electrophilic aminoalkoxylation reaction. In this reaction, aminoether derivatives were prepared by a one-pot reaction using olefins, NBS, amides, and cyclic ethers.[2] Other than aminoalkoxylation, we have studied the use of chiral amino-thiocarbamate catalyst in asymmetric bromocyclization reaction. Various chiral, non-racemic α -lactones and pyrrolidines were prepared with good yields and ees.[3] These reactions were applied in the synthesis of some bioactive molecules.

Organizer: Center for Medical System Innovation through Multidisciplinary Integration,
The University of Tokyo
Masayuki Inoue
Professor, Graduate School of Pharmaceutical Sciences, The University of Tokyo

Cooperation: Center for NanoBio Integration, The University of Tokyo

For Further Information Contact: Kiyoko Jarnes at CMSI Office

Phone: 03-5841-1509 / Fax: 03-5841-1510

E-mail: jarnes@cnbi.t.u-tokyo.ac.jp

Registration: <http://park.itc.u-tokyo.ac.jp/CMSI/>