



2017年度 物質生命理工学科コロキウム

上智大学 理工学部 物質生命理工学科 主催
理工学部・理工学振興会 共催

- 1. Sugar-derived Amine Catalyzed Diels-Alder Reactions.**
- 2. A Brief Survey of the Tertiary Education System in the UK, Hong Kong, and Japan**



Prof. Tony K. M. Shing
成 公明 教授 最終講義

日時: 2017年9月19日 (火) 15:30-17:00

場所: 6-201

学外の方の聴講歓迎・申込不要・参加無料

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Sugar-derived Amine Catalyzed Diels-Alder Reactions.

Abstract: Enantioselective organocatalysis, employing small chiral organic molecules to promote different chemical transformations, has received widespread attention over the past decade. Inspired by the powerful capabilities of aminocatalysis, our group has initiated a project to develop new chiral pyrrolidines with a mono-aryl group that would complement the existing diarylprolinol ether and imidazolidinone catalysis. D-Arabinose was conveniently chosen as the starting material because of its built-in chirality and its ready commercial availability in large quantities for both enantiomers. Chiral hydroxylated pyrrolidine catalysts were synthesized from D-arabinose in a straightforward manner. Various aromatic substituents at the amine can be introduced readily by a Grignard reaction, which enables facile optimization of the catalyst performance. Applications of these chiral pyrrolidines to enantioselective intramolecular Diels-Alder reactions with and without desymmetrization will be presented in the seminar.

A Brief Survey of the Tertiary Education System in the UK, Hong Kong, and Japan.

Abstract: The speaker has had teaching experience in these 3 regions. A brief comparison of the teaching methods, grading/award systems, secretarial/administration support, and the student attitudes in these 3 regions will be presented.