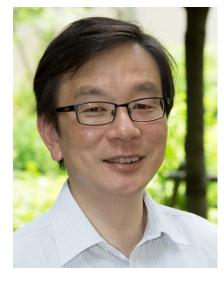
UNIVERSITY OF

COLLEGE OF ARTS & SCIENCES

Department of Chemistry

Brown and Williamson Series

Friday, February 28, 2020 @12:30 pm Chemistry Building, LL-16



Takahiko Akiyama, Ph.D.

Professor of Chemistry, Department of Chemistry, Faculty of Science, Gakushuin University

Recent Progress in the Chiral Phosphoric Acid Catalysis

ABSTRACT: We designd and developed chiral phosphoric acid derived from (R)-BINOL as a chiral Brønsted acid in 2004, and have reported a number of enantioselective reactions by means of chiral phosphoric acid. Development of chiral phosphoric acid, and recent progress on the chiral phosphoric acid catalyzed reactions, such as Friedel-Crafts alkylation reactions of indoles, transfer hydrogenation, construction of chiral biaryls, and internal redox reactions will be discussed in the lecture.

BIO:

Employment:

/
d.

Education:

- 03/1985 Ph.D. The University of Tokyo
- 03/1982 M. Sc. Department of Chemistry, The University of Tokyo
- 02/1980 B.Sc. Department of Chemistry, The University of Tokyo

Awards:

- 2017 Synthetic Organic Chemistry Award, Japan 2016 Humboldt Research Award
- 2016 Arthur C. Cope Scholar Award
- 2012 JSPC (The Japanese Society for Process Chemistry) Award for Excellence 2012 Nagoya Silver Medal
- 2009 The Chemical Society of Japan Award for Creative Work for 2009.
- 2009 SSOCJ (The Society of Synthetic Organic Chemistry, Japan) Daiichi-Sankyo Award for Medicinal Organic Chemistry 2009.
- 1997 1997 Takeda Pharmaceutical Company Award in Synthetic Organic Chemistry, Japan.

Honorary Lectureships & Visiting Professorships:

- 2017 LabEx CHARMMMAT Visiting Professor, University of Paris-Saclay (France)
- 2017 SUSTC Chemical Sciences Lectureship, South University of Science and Technology of China, Shenzhen, (P. R. China)

Research Interest:

Synthetic Organic Chemistry, Organocatalysis, Metal-mediated reactions