

***Pot-Economy and Organocatalysis in
Total Synthesis***

Prof. Yujiro Hayashi
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Thursday 12th September, 2013. ICIQ Auditorium, 12 p.m.

Professional career

2012 Full Professor of Tohoku University, Department of Chemistry, Graduate School of Science

2006 Full Professor of Tokyo University of Science, Department of Industrial Chemistry, Faculty of Engineering

1998 Associate Professor of Tokyo University of Science, Department of Industrial Chemistry, Faculty of Engineering

1994-1996: Harvard University

Postdoctoral fellowship of Uehara memorial foundation

Research adviser: Prof. E. J. Corey

1992: Ph. D. from Tokyo University

Research adviser: Prof. Koichi Narasaka

Title: Asymmetric Reactions Catalyzed by a Chiral Titanium Reagent: Ene, Michael and [2+2] Cycloaddition Reactions

1987 Assistant Professor of Tokyo University, Chemistry Department, Faculty of Science

1984-1986: Tokyo University, M.S.

Research adviser: Prof. Teruaki Mukaiyama

1980-1984: Tokyo University B.S. in Chemistry



Research Interests

The major research are:

- 1) development new catalytic asymmetric reactions by the use of organic catalysis
- 2) development and application of high pressure induced by water-freezing to the organic synthesis
- 3) total synthesis of biologically interesting molecules