

**Curriculum Vitae      Tohru YAMADA****Gender and Nationality:** Male, Japanese**Date & Place of Birth:** 25 December, 1958 Hokkaido, Japan**Address:** Department of Chemistry, Faculty of Science and Technology, Keio University  
Hiyoshi, Kohoku-ku, Yokohama 223-8522 Japan**Education:**

Ph.D. March, 1987, The University of Tokyo, Japan; Doctoral Mentor: Prof. Teruaki Mukaiyama

M. S. March, 1984, The University of Tokyo, Japan

B. S. March, 1982, The University of Tokyo, Japan

**Academic Awards & Fellowship:**

1992 Chemical Society of Japan Award for Young Chemist

(1) Catalytic Oxidation-Reduction Hydration of Olefins with Molecular Oxygen in the Presence of Bis(1,3-diketonato)cobalt(II) Complexes, K. Kato, T. Yamada, T. Takai, S. Inoki, S. Isayama, *Bull. Chem. Soc. Jpn.* **1990**, 63, 179-186.(2) Direct Epoxidation of Olefins Catalyzed by Nickel(II) Complexes with Molecular Oxygen and Aldehydes, T. Yamada, T. Takai, O. Rhode, T. Mukaiyama, *Bull. Chem. Soc. Jpn.* **1991**, 64, 2109-2117.(3) Aerobic Enantioselective Epoxidation of Unfunctionalized Olefins Catalyzed by Optically Active Salen-Manganese(III) Complexes, T. Yamada, K. Imagawa, T. Nagata, T. Mukaiyama, *Bull. Chem. Soc. Jpn.* **1994**, 67, 2248-2256.(4) Optically Active *N,N'*-Bis(3-oxobutylidene)diaminomanganese(III) Complexes as Novel and Efficient for Aerobic Enantioselective Epoxidation of Simple Olefins, T. Nagata, K. Imagawa, T. Yamada, T. Mukaiyama, *Bull. Chem. Soc. Jpn.* **1995**, 68, 1455-1465.2003 *Bull. Chem. Soc. Jpn.* AwardEnantioselective Carbonyl-Ene Reaction of Glyoxal Derivatives Catalyzed by Cationic 3-Oxobutylideneaminatocobalt (III) Complexes, S. Kezuka, Y. Kogami, T. Ikeno, T. Yamada, *Bull. Chem. Soc. Jpn.* **2003**, 76, 49-58.

2010 SSOCJ Nissan Chemical Industries Award for Novel Reaction &amp; Method 2009

Development of Optically Active Cobalt Complex Catalysts for Enantioselective Synthetic Reactions

2011 *Bull. Chem. Soc. Jpn.* AwardSilver-Catalyzed Carbon Dioxide Incorporation and Rearrangement Reaction on Propargylic Derivatives, S. Kikuchi, S. Yoshida, Y. Sugawara, W. Yamada, H.-M. Cheng, K. Fukui, K. Sekine, I. Iwakura, T. Ikeno, T. Yamada, *Bull. Chem. Soc. Jpn.* **2011**, 84, 698-717.2016 *Bull. Chem. Soc. Jpn.* AwardMicrowave Specific Effect on Catalytic atropo-Enantioselective Ring-Opening reaction of Biaryl Lactones, S. Tashima, K. Nushiro, K. Saito, T. Yamada, *Bull. Chem. Soc. Jpn.* **2016**, 89, 833-835.**Professional Appointments:**

April, 1987-March, 1997 : Mitsui Petrochemical Industries, Ltd. Basic Research Laboratories

April, 1997-March, 2001: Associate professor of Department of Chemistry, Keio University

April, 2002-present: Professor of Department of Chemistry, Keio University

April, 2012-2016: Chair of Department of Chemistry

April 2016-2018: Chair of Center of Molecular Chemistry

**Research Interests**

Organic synthesis:

Research on new synthetic reactions catalyzed by metal complexes, e.g. catalytic enantioselective reduction, carbon dioxide fixation for organic synthesis, and microwave application to organic synthesis.