

Curriculum Vitae  
**Hideyuki KONISHI, Ph.D.**

**Personal Information**

Date of Birth: October 17, 1979  
Place of Birth: Takamatsu, Japan  
Gender: Male  
Nationality: Japanese  
Current Address: Laboratory of Organic Chemistry  
School of Pharmaceutical Sciences  
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**Education/Career**

8/2009- **Research Assistant Professor** in School of Pharmaceutical Sciences, University of Shizuoka (Prof. Kei Manabe)  
6/2008-7/2009 **Postdoctoral Fellow** in Department of Chemistry, The University of Chicago (Prof. Viresh H. Rawal)  
Research Projects: Asymmetric Amination of Dicarbonyl Compounds Using Squaramides-Based Hydrogen Bond Donor Catalysts  
4/2008-5/2008 **Postdoctoral Fellow** in Graduate School of Sciences, The University of Tokyo (Prof. Shu Kobayashi)  
Research Projects: Indium(I)-Catalyzed Asymmetric Allylation, Crotylation, and  $\alpha$ -Chloroallylation of Hydrazones  
4/2005-3/2008 **Ph.D. (Pharmaceutical Sciences)** in Graduate School of Pharmaceutical Sciences, The University of Tokyo (Prof. Shu Kobayashi)  
Thesis: "Development of Catalytic C–C Bond Forming Reactions Using Hydrazones and Ammonia as Nitrogen Sources"

### **Fellowships and Grants**

- 4/2007-3/2008    Research Fellow of the Japan Society for the Promotion of Sciences (DC2)
- 3/2010            Research Grant from Fuji Film Award in Synthetic Organic Chemistry
- 4/2011-3/2015    JSPS Grant-in-Aid for Young Scientist (B)
- 3/2013            Research Grant from The Uehara Memorial Foundation
- 4/2015-3/2018    JSPS Grant-in-Aid for Young Scientist (B)

### **Awards**

- 2/2010            Fuji Film Award in Synthetic Organic Chemistry, Japan
- 8/2013            IUPAC Poster Prize at 17th International IUPAC Conference on Organometallic Chemistry Directed Towards Organic Synthesis (OMCOS-17)

### **Professional Affiliations**

- # Pharmaceutical Society of Japan
- # Chemical Society of Japan
- # Society of Synthetic Organic Chemistry of Japan
- # The Japanese Society for Process Chemistry

### **Research Interests**

- # Development of practical and efficient synthetic methods for construction of pharmaceutically and synthetically important compounds
- # Elucidation of reaction mechanism based on observation of reaction intermediates
- # Development of novel organic reactions using a covalent bond as attractive interaction between catalysts and substrates

**Publication List** (as of March 2016)

1. **Hideyuki Konishi**, Kei Manabe  
Practical Synthetic Methods Utilizing Formic Acid Derivatives as Carbon Monoxide Sources  
*J. Synth. Org. Chem. Jpn.* **2015**, *73*, 911–922. (Review)
2. **Hideyuki Konishi**, Takashi Muto, Tsuyoshi Ueda, Yayoi Yamada, Miyuki Yamaguchi, Kei Manabe  
Imidazole Derivatives as Accelerators for Ruthenium-Catalyzed Hydroesterification and Hydrocarbamoylation of Alkenes: Extensive Ligand Screening and Mechanistic Study  
*ChemCatChem* **2015**, *7*, 836–845.
3. **Hideyuki Konishi**, Hiroki Nagase, Kei Manabe  
Concise Synthesis of Cyclic Carbonyl Compounds from Haloarenes Using Phenyl Formate as the Carbonyl Source  
*Chem. Commun.* **2015**, *51*, 1854–1857.
4. **Hideyuki Konishi**, Kei Manabe  
Development of Practical Carbonylation Reactions Using Novel Carbon Monoxide Surrogates  
*Wako Organic Square* **2014**, *49*, 2–4. (Review)
5. **Hideyuki Konishi**, Kei Manabe  
Formic Acid Derivatives as Practical Carbon Monoxide Surrogates for Metal-Catalyzed Carbonylation Reactions  
*Synlett* **2014**, *25*, 1971–1986. (Account)
6. **Hideyuki Konishi**, Kei Manabe  
Chemical Synthetic Methods without Toxic Gaseous Carbon Monoxide  
*Farumashia* **2014**, *50*, 310–314.
7. **Hideyuki Konishi**, Tsuyoshi Ueda, Kei Manabe  
Pd-Catalyzed External-CO-Free Carbonylation: Preparation of 2,4,6-Trichlorophenyl 3,4-Dihydronaphthalene-2-Carboxylate  
*Org. Synth.* **2014**, *90*, 39–51.
8. Tsuyoshi Ueda, **Hideyuki Konishi**, Kei Manabe  
Palladium-Catalyzed Fluorocarbonylation Using *N*-Formylsaccharin as CO Source: General Access to Carboxylic Acid Derivatives  
*Org. Lett.* **2013**, *15*, 5370–5373.

9. Tsuyoshi Ueda, **Hideyuki Konishi**, Kei Manabe  
Palladium-Catalyzed Reductive Carbonylation of Aryl Halides with *N*-Formylsaccharin as a CO Source  
*Angew. Chem. Int. Ed.* **2013**, *52*, 8611–8615.  
**Selected as “Most Accessed in 7/2013”.**  
**Highlighted in “SYNFORM, 2013, A137–A138”.**
10. Tsuyoshi, Ueda, **Hideyuki Konishi**, Kei Manabe  
Trichlorophenyl Formate: Highly Reactive and Easily Accessible Crystalline CO Surrogate for Palladium-Catalyzed Carbonylation of Aryl/Alkenyl Halides and Triflates  
*Org. Lett.* **2012**, 5370–5373.
11. **Hideyuki Konishi**, Tsuyoshi Ueda, Takashi Muto, Kei Manabe  
Remarkable Improvement Achieved by Imidazole Derivatives in Ruthenium-Catalyzed Hydroesterification of Alkenes Using Formates  
*Org. Lett.* **2012**, 4722–4725.
12. Tsuyoshi, Ueda, **Hideyuki Konishi**, Kei Manabe  
Preparation of  $\alpha,\beta$ -Unsaturated Esters and Amides via External-CO-Free Palladium-Catalyzed Carbonylation of Alkenyl Tosylates  
*Tetrahedron Lett.* **2012**, *53*, 5171–5175.
13. Tsuyoshi, Ueda, **Hideyuki Konishi**, Kei Manabe  
Palladium-Catalyzed Carbonylation of Aryl, Alkenyl, and Allyl Halides with Phenyl Formate  
*Org. Lett.* **2012**, *14*, 3100–3103.
14. **Hideyuki Konishi**, Tatsuya Itoh, Kei Manabe  
Site-Selective Cross-Coupling of Dichlorinated Benzo-Fused Nitrogen-Heterocycles with Grignard Reagents.  
*Chem. Pharm. Bull.* **2010**, *58*, 1255–1258.
15. **Hideyuki Konishi**, Kei Manabe  
Development of Novel Catalysts Having Oligoarene Structures  
*Kagaku Kogyo* **2010**, *61*, 679–684. (Review)
16. **Hideyuki Konishi**, Tin Yiu Lam, Jeremiah P. Malerich, Viresh H. Rawal  
Enantioselective  $\alpha$ -Amination of 1,3-Dicarbonyl Compounds Using Squaramide Derivatives as Hydrogen Bonding Catalysts.  
*Org. Lett.* **2010**, *12*, 2028–2031.

17. Ananya Chakrabarti, **Hideyuki Konishi**, Miyuki Yamaguchi, Uwe Schneider, Shu Kobayashi  
Indium(I)-Catalyzed Asymmetric Allylation, Crotylation, and  $\alpha$ -Chloroallylation of Hydrazones with Rare Constitutional and High Configurational Selectivities.  
*Angew. Chem. Int. Ed.* **2010**, *49*, 1838–1841.
18. Shu Kobayashi, **Hideyuki Konishi**, Uwe Schneider  
Indium(I) Iodide-Catalyzed Regio- and Diastereoselective Formal  $\alpha$ -Addition of an  $\alpha$ -Methylallylboronate to *N*-Acylhydrazones.  
*Chem. Commun.* **2008**, 2313–2315.
19. **Hideyuki Konishi**, Chikako Ogawa, Masaharu Sugiura, Shu Kobayashi  
Cyanation of *N*-Acylhydrazones with Trimethylsilyl Cyanide Promoted by a Brønsted Base and a Lewis Acid.  
*Adv. Synth. Catal.* **2005**, *347*, 1899–1903.
20. Chikako Ogawa, **Hideyuki Konishi**, Masaharu Sugiura, Shu Kobayashi  
Phosphine Oxides as Efficient Neutral Coordinate-Organocatalysts for Stereoselective Allylation of *N*-Acylhydrazones.  
*Org. Biomol. Chem.* **2004**, *2*, 446–448.
21. Shu Kobayashi, Chikako Ogawa, **Hideyuki Konishi**, Masaharu Sugiura  
Chiral Sulfoxides as Neutral Coordinate-Organocatalysts in Asymmetric Allylation of *N*-Acylhydrazones Using Allyltrichlorosilanes.  
*J. Am. Chem. Soc.* **2003**, *125*, 6610–6611.

#### Patent List

1. Shu Kobayashi, Uwe Schneider, **Hideyuki Konishi**, Ananya Chakrabarti  
Preparation of Optically-Active Homoallylhydrazides and Asymmetric Catalysts for Allylation of *N*-Acylhydrazones  
*Jpn. Kokai Tokkyo Koho* **2009**, JP 2009-242390
2. Shu Kobayashi, Masaharu Sugiura, Chikako Ogawa, **Hideyuki Konishi**  
One-Pot Preparation of  $\beta$ -Aminocarbonyl Compounds  
*Jpn. Kokai Tokkyo Koho* **2008**, JP 2008-214300