

Curriculum Vitae

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Personal

Hiroyuki MORIMOTO, Ph.D.

Born in July 5th, 1981 in Hiroshima, Japan.

Graduated from Shizuoka High School, Shizuoka, Japan in 2000.

Current Position

Assistant Professor, Graduate School of Pharmaceutical Sciences, Kyushu University

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Research Field and Interests

Synthetic organic chemistry, Asymmetric catalysis, Transition metal chemistry

Development of environmentally benign catalytic bond-forming reactions

Employment

Jul. 2010- Assistant Professor, Graduate School of Pharmaceutical Sciences, Kyushu University

Education

Apr. 2009-Jun. 2010 Postdoctoral Researcher (JSPS Research Fellow PD), Institute for Chemical Research, Kyoto University (Prof. Masaharu Nakamura) and Department of Chemistry, University of Illinois at Urbana-Champaign, U.S.A. (Prof. John F. Hartwig)
Studied copper-mediated cross-coupling reactions.

Apr. 2006-Mar. 2009 Ph.D. Student (JSPS Research Fellow DC1), Graduate School of Pharmaceutical Sciences, The University of Tokyo (Prof. Masakatsu Shibasaki)
Thesis Title: Development of Direct Catalytic Asymmetric Mannich-Type Reaction Using Trichloromethyl Ketones as

- Apr. 2004-Mar. 2006 Ester Equivalent Donors
M.Sc. Student, Graduate School of Pharmaceutical Sciences,
The University of Tokyo (Prof. Masakatsu Shibasaki)
Thesis Title: Development of Trichloromethyl Ketones as
Novel Ester Equivalent Donor and Its Application to Direct
Catalytic Mannich-Type Reaction
- Apr. 2000-Mar. 2004 B.Sc. Student, Department of Pharmaceutical Sciences, The
University of Tokyo (Prof. Masakatsu Shibasaki)
Studied direct catalytic asymmetric Mannich-type reactions.

Grants

- Apr. 2015-Mar. 2018 Grant-in-Aid for Scientific Research (C)
Apr. 2011-Mar. 2014 Grant-in-Aid for Young Scientists (B)

Awards and Honors

- Aug. 2014 JSPC Excellent Award (Poster Presentation), JSPC 2014
Summer Symposium, The Japanese Society for Process
Chemistry
- Sep. 2012 Excellent Poster Award, 6th Takeda Science Symposium on
PharmaSciences, Takeda Science Foundation
- Feb. 2012 Takasago International Corporation Award in Synthetic
Organic Chemistry, Japan
- Feb. 2012 Inoue Research Award for Young Scientists
- Apr. 2009-Jun. 2010 JSPS Research Fellowship for Young Scientists (PD)
- Dec. 2008 JSPS Postdoctoral Fellowship for Research Abroad (declined)
- May 2008 Student Presentation Award, The 88th Spring Annual Meeting,
The Chemical Society of Japan
- Oct. 2007 Student Presentation Award, The 1st Annual Meeting of The
Chemical Society of Japan at Kanto Branch, The Chemical
Society of Japan, Kanto Branch
- Sep. 2007 Poster Presentation Award, The 24th Synthetic Organic
Chemistry Seminar, The Society of Synthetic Organic
Chemistry, Japan
- Apr. 2006-Mar. 2009 JSPS Research Fellowship for Young Scientists (DC1)

Membership

- 2009- American Chemical Society
2007- The Chemical Society of Japan
2007- The Society of Synthetic Organic Chemistry, Japan
2004- The Pharmaceutical Society of Japan

Certification

- Mar. 2008 The Pharmacist License in Japan

List of Publication

1. Shigeki Matsunaga, Takamasa Yoshida, Hiroyuki Morimoto, Naoya Kumagai and Masakatsu Shibasaki*

Direct Catalytic Asymmetric Mannich-type Reaction of Hydroxyketone Using a Et₂Zn/linked-BINOL Complex: Synthesis of either *anti*- or *syn*- β -Amino Alcohols.

J. Am. Chem. Soc. **2004**, *126*, 8777-8785.

2. Takamasa Yoshida, Hiroyuki Morimoto, Naoya Kumagai, Shigeki Matsunaga* and Masakatsu Shibasaki*

Non-C₂-Symmetric, Chirally Economical, and Readily Tunable Linked-BINOLs: Design and Application in Direct Catalytic Asymmetric Mannich-type Reaction.

Angew. Chem., Int. Ed. **2005**, *44*, 3470-3474.

3. Hiroyuki Morimoto, Sean H. Wiedemann, Akitake Yamaguchi, Shinji Harada, Zhihua Chen, Shigeki Matsunaga* and Masakatsu Shibasaki*

Trichloromethyl Ketones as Synthetically Versatile Donors: Application in Direct Catalytic Mannich-type Reactions and Stereoselective Synthesis of Azetidines.

Angew. Chem., Int. Ed. **2006**, *45*, 3146-3150. (Selected as a Hot Paper.)

4. Shin-ya Tosaki, Keiichi Hara, Vijay Gnanadesikan, Hiroyuki Morimoto, Shinji Harada, Mari Sugita, Noriyuki Yamagiwa, Shigeki Matsunaga* and Masakatsu Shibasaki*

Mixed La-Li Heterobimetallic Complexes for Tertiary Nitroaldol Resolution.

J. Am. Chem. Soc. **2006**, *128*, 11776-11777. (Highlighted by *Synfacts* **2007**, 52.)

5. Zhihua Chen, Hiroyuki Morimoto, Shigeki Matsunaga* and Masakatsu Shibasaki*

Catalytic Asymmetric Epoxidation of α -Methyl α,β -Unsaturated Anilides as Ester Surrogates.

Synlett **2006**, 3529-3532. (Highlighted by *Synfacts* **2007**, 286.)

6. Hiroyuki Kakei, Riichiro Tsuji, Takashi Ohshima, Hiroyuki Morimoto, Shigeki Matsunaga and Masakatsu Shibasaki*

Catalytic Asymmetric Epoxidation of α,β -Unsaturated Esters Using Chiral Yttrium-Biaryldiol Complexes.

Chem. Asian J. **2007**, *2*, 257-264.

7. So-Young Park, Hiroyuki Morimoto, Shigeki Matsunaga* and Masakatsu Shibasaki*
Catalytic Asymmetric Michael Reactions of Malonate to α,β -Unsaturated *N*-Acylpyrroles Using a $\text{La}(\text{O-}i\text{Pr})_3/\text{Ph}$ -linked-BINOL Complex.

Tetrahedron Lett. **2007**, *48*, 2815-2818. (Highlighted by *Synfacts* **2007**, 620.)

8. Hiroyuki Morimoto, Gang Lu, Naohiro Aoyama, Shigeki Matsunaga* and Masakatsu Shibasaki*

Lanthanum Aryloxide/Pybox-Catalyzed Direct Asymmetric Mannich-Type Reactions Using a Trichloromethyl Ketone as a Propionate Equivalent Donor.

J. Am. Chem. Soc. **2007**, *129*, 9588-9589.

9. Zhihua Chen, Hiroyuki Morimoto, Shigeki Matsunaga* and Masakatsu Shibasaki*
A Bench-stable Homodinuclear Ni_2 -Schiff Base Complex for Catalytic Asymmetric Synthesis of α -Tetrasubstituted *anti*- α,β -Diamino Acid Surrogates.

J. Am. Chem. Soc. **2008**, *130*, 2170-2171. (Highlighted by *Synfacts* **2008**, 488.)

10. Gang Lu, Hiroyuki Morimoto, Shigeki Matsunaga* and Masakatsu Shibasaki*
Chiral γ -Amino Amide Synthesis by Heterobimetallic Lanthanum/Lithium/Pybox-Catalyzed Direct Asymmetric Mannich-Type Reactions of α -Keto Anilides.

Angew. Chem., Int. Ed. **2008**, *47*, 6847-6850.

11. Hiroyuki Morimoto, Tatsuhiko Yoshino, Takafumi Yukawa, Gang Lu, Shigeki Matsunaga* and Masakatsu Shibasaki*

Lewis Base Assisted Brønsted Base Catalysis: Bidentate Phosphine Oxides as Activators and Modulators of Brønsted Basic Lanthanum-Aryloxides.

Angew. Chem., Int. Ed. **2008**, *47*, 9125-9129. (Highlighted by *Synfacts* **2009**, 178.)

12. Keiichi Hara, Shin-ya Tosaki, Vijay Gnanadesikan, Hiroyuki Morimoto, Shinji

Harada, Mari Sugita, Noriyuki Yamagiwa, Shigeki Matsunaga* and Masakatsu Shibasaki*

Mixed La-Li Heterobimetallic Complexes for Tertiary Nitroaldol Resolution.

Tetrahedron **2009**, *65*, 5030-5036.

13. Tatsuhiko Yoshino, Hiroyuki Morimoto, Gang Lu, Shigeki Matsunaga* and Masakatsu Shibasaki*

Construction of Contiguous Tetrasubstituted Chiral Carbon Stereocenters via Direct Catalytic Asymmetric Aldol Reaction of α -Isothiocyanato Esters with Ketones.

J. Am. Chem. Soc. **2009**, *131*, 17082-17083. (Highlighted by *Synfacts* **2010**, 321.)

14. Takafumi Yukawa, Bianca Seelig, Yingjie Xu, Hiroyuki Morimoto, Shigeki Matsunaga*, Albrecht Berkessel* and Masakatsu Shibasaki*

Catalytic Asymmetric Aza-Morita-Baylis-Hillman Reaction of Methyl Acrylate: Role of a Bifunctional La(O-*i*Pr)₃/Linked-BINOL Complex.

J. Am. Chem. Soc. **2010**, *132*, 11988-11992.

15. Hiroyuki Morimoto, Tetsu Tsubogo, Nichole D. Litvinas and John F. Hartwig*

A Broadly Applicable Copper Reagent for Trifluoromethylations and Perfluoroalkylations of Aryl Iodides and Bromides.

Angew. Chem., Int. Ed. **2011**, *50*, 3793-3798.

16. Gang Lu, Tatsuhiko Yoshino, Hiroyuki Morimoto, Shigeki Matsunaga* and Masakatsu Shibasaki*

Stereodivergent Direct Catalytic Asymmetric Mannich-Type Reactions of α -Isothiocyanato Ester with Ketimines.

Angew. Chem., Int. Ed. **2011**, *50*, 4382-4385. (Highlighted by *Synfacts* **2011**, 861.)

17. Yuhei Shimizu, Hiroyuki Morimoto, Ming Zhang and Takashi Ohshima*

Microwave-Assisted Deacylation of Unactivated Amides Using Ammonium-Salt-Accelerated Transamidation.

Angew. Chem., Int. Ed. **2012**, *51*, 8564-8567.

18. Kazuhiro Morisaki, Masanao Sawa, Jun-ya Nomaguchi, Hiroyuki Morimoto, Yosuke Takeuchi, Kazushi Mashima,* and Takashi Ohshima*

Rh-Catalyzed Direct Enantioselective Alkynylation of α -Ketiminoesters.

Chem. Eur. J. **2013**, *19*, 8417–8420.

19. Hiroyuki Morimoto*, Risa Fujiwara, Yuhei Shimizu, Kazuhiro Morisaki and Takashi Ohshima*

Lanthanum(III) Triflate Catalyzed Direct Amidation of Esters.

Org. Lett. **2014**, *16*, 2018–2021.

20. Yuhei Shimizu, Megumi Noshita, Yuri Mukai, Hiroyuki Morimoto* and Takashi Ohshima*

Cleavage of unactivated amide bonds by ammonium salt-accelerated hydrazinolysis.

Chem. Commun. **2014**, *50*, 12623–12625 (Selected as a Back Cover).

21. Ming Zhang, Kenji Watanabe, Masafumi Tsukamoto, Ryozo Shibuya, Hiroyuki Morimoto and Takashi Ohshima*

A Short Scalable Route to (–)- α -Kainic Acid Using Pt-Catalyzed Direct Allylic Amination.

Chem. Eur. J. **2015**, *21*, 3937–3941.

22. Makoto Ohira, Yuka Iwasaki, Chika Tanaka, Michitaka Kuroki, Naoki Matsuo, Tatsuhiko Kitamura, Masaki Yukuhiro, Hiroyuki Morimoto, Nisha Pang, Bei Liu, Tohru Kiyono, Masahide Amemiya, Kozo Tanaka, Kazumasa Yoshida, Nozomi Sugimoto, Takashi Ohshima* and Masatoshi Fujita*

A novel anti-microtubule agent with carbazole and benzohydrazide structures suppresses tumor cell growth in vivo.

Biochim. Biophys. Acta Gen. Sub. **2015**, *1850*, 1676–1684.

23. Kazuhiro Morisaki, Masanao Sawa, Ryohei Yonesaki, Hiroyuki Morimoto*, Kazushi Mashima, and Takashi Ohshima*

Mechanistic Studies and Expansion of the Substrate Scope of Direct Enantioselective Alkynylation of α -Ketiminoesters Catalyzed by Adaptable (Phebox)Rh(III) Complexes.

J. Am. Chem. Soc. **2016**, *138*, 6194–6203.

List of Patents

1. John F. Hartwig, Hiroyuki Morimoto and Patrick Fier

Fluoroalkylation Methods and Reagents.

International Patent Application WO 2012/024564 A1, **2012**.

Application Date: August 19, 2011 (Priority Date: August 20, 2010).

2. 藤田雅俊、大嶋孝志、森本浩之

G2/M 期停止及び細胞死を誘導するベンゾヒドラジド誘導體

特願 2011-234309

出願日：2011年10月25日

3. 大嶋孝志、森本浩之、清水悠平

アミノ基および/または水酸基を有する化合物の製造方法

特願 2012-264569, PCT/JP2013/055845

出願日：2012年12月3日

List of Books and Others

1. 森本 浩之

四置換炭素構築を可能とするイミンの直接的触媒的不斉アルキニル化

(Direct Catalytic Asymmetric Alkynylation of Imines that Enables the Construction of Tetrasubstituted Carbon Stereocenters.) (Farumashia Topics)

ファルマシア, **2012**, 48, 329. (Invited)

2. 清水 悠平、森本 浩之、大嶋 孝志

安定なアミド結合を温和に切断！—強酸、強塩基を必要としないアミド切断反応

化学（化学同人）, **2012**, 67 (12), 70–71. (寄稿)

3. 森本 浩之

単純アルケンに対する酸素求核剤の直接的触媒的 anti-Markovnikov 付加反応

(Direct Catalytic anti-Markovnikov Addition Reactions of Oxygen Nucleophiles to Simple Alkenes)

Journal of Synthetic Organic Chemistry, Japan, **2014**, 72 (12), 1402–1403. (Invited)

4. Takashi Ohshima, Hiroyuki Morimoto, Kazuhiro Morisaki.

Catalytic Asymmetric 1,2-Alkynylation

Reference Module in Chemistry, Molecular Sciences and Chemical Engineering, 2015.

DOI: 10.1016/B978-0-12-409547-2.11504-5.

List of Presentation

1. Hiroyuki Morimoto, Takamasa Yoshida, Naoya Kumagai, Shigeki Matsunaga and Masakatsu Shibasaki

Linked-BINOL (1): Direct Catalytic Asymmetric Mannich-Type Reactions of Hydroxy Ketones.

The 125th Annual Meeting of Pharmaceutical Society of Japan, March 29th, 2005, Tokyo, Japan. (Oral and poster presentation)

2. Hiroyuki Morimoto, Sean H. Wiedemann, Akitake Yamaguchi, Shinji Harada, Zhihua Chen, Shigeki Matsunaga, Masakatsu Shibasaki

Nucleophilic Activation of Trichloromethyl Ketones and its Application to Direct Catalytic Mannich-type Reaction.

The 126th Annual Meeting of Pharmaceutical Society of Japan, March 28th, 2006, Sendai, Japan. (Poster presentation)

3. Hiroyuki Morimoto, Sean H. Wiedemann, Akitake Yamaguchi, Shinji Harada, Zhihua Chen, Shigeki Matsunaga and Masakatsu Shibasaki

Direct Catalytic Asymmetric Mannich-Type Reactions Using Trichloromethyl Ketones as Nucleophiles and its Application to the Synthesis of Multisubstituted Azetidincarboxylic Acid Derivatives.

The 36th Congress of Heterocyclic Chemistry, October 22nd, 2006, Nagasaki, Japan. (Oral presentation)

4. Hiroyuki Morimoto, Gang Lu, Naohiro Aoyama, Shigeki Matsunaga and Masakatsu Shibasaki

Development of Direct Catalytic Asymmetric Mannich-Type Reactions Using Trichloromethyl Ketones as Ester Equivalent Donors.

The 127th Annual Meeting of Pharmaceutical Society of Japan, March 29th, 2007, Toyama, Japan. (Oral presentation)

5. Hiroyuki Morimoto, Gang Lu, Naohiro Aoyama, Shigeki Matsunaga and Masakatsu Shibasaki

Direct Catalytic Asymmetric Mannich-Type Reactions Using Rare Earth Metal Phenoxide-PyBox Complexes.

The 24th Symposium on Rare Earths, May 18th, 2007, Kyushu, Japan. (Oral presentation)

6. Hiroyuki Morimoto, Gang Lu, Naohiro Aoyama, Shigeki Matsunaga and Masakatsu Shibasaki

Development of Direct Catalytic Asymmetric Mannich-Type Reactions Using Trichloromethyl Ketones as Ester Equivalent Donors.

The 5th Symposium on Organic Chemistry-The Next Generation-, May 26th, 2007, Tokyo, Japan. (Oral presentation)

7. Hiroyuki Morimoto, Gang Lu, Naohiro Aoyama, Shigeki Matsunaga and Masakatsu Shibasaki

Development of Direct Catalytic Asymmetric Mannich-type Reaction Using Trichloromethyl Ketone as an Ester Equivalent Donor

The 24th Seminar on Synthetic Organic Chemistry, September 12th, 2007, Awaji Island, Japan. (Poster presentation, received **poster award**)

8. Hiroyuki Morimoto, Gang Lu, Naohiro Aoyama, Shigeki Matsunaga and Masakatsu Shibasaki

Rare Earth Metal Aryloxy-Pybox Catalyzed Direct Catalytic Asymmetric Mannich-Type Reactions Using Trichloromethyl Ketones as Ester Equivalent Donors.

The 1st Meeting of Kanto Branch of Chemical Society of Japan, September 27th, 2007, Tokyo, Japan. (Oral presentation, received **CSJ Kanto Branch student presentation award**)

9. Hiroyuki Morimoto, Gang Lu, Naohiro Aoyama, Shigeki Matsunaga and Masakatsu Shibasaki

Development of Direct Catalytic Asymmetric Mannich-Type Reactions Using Trichloromethyl Ketones as Ester Equivalent Donors.

The 92nd Symposium on Organic Synthesis, November 8th, 2007, Tokyo, Japan. (Oral and poster presentation)

10. Hiroyuki Morimoto, Gang Lu, Naohiro Aoyama, Shigeki Matsunaga, Masakatsu Shibasaki

Direct Catalytic Asymmetric Mannich-type Reaction Using Trichloromethyl Ketones as Ester Equivalent Donor.

The 128th Annual Meeting of Pharmaceutical Society of Japan, March 26th, 2008, Yokohama, Japan. (Poster presentation)

11. Hiroyuki Morimoto, Gang Lu, Naohiro Aoyama, Shigeki Matsunaga, Masakatsu Shibasaki

Lanthanum Aryloxide/Pybox-Catalyzed Direct Asymmetric Mannich-Type Reactions Using Trichloromethyl Ketones as Ester Equivalent Donors.

The 88th Annual Meeting of Chemical Society of Japan, March 28th, 2008, Tokyo, Japan. (Oral presentation, **CSJ student presentation award** received)

12. Hiroyuki Morimoto, Gang Lu, Naohiro Aoyama, Shigeki Matsunaga and Masakatsu Shibasaki

Direct Catalytic Asymmetric Mannich-type Reactions Using Trichloromethyl Ketone as an Ester Equivalent Donor.

11th Belgian Organic Synthesis Symposium (BOSS XI), July 13th, 2008, Ghent, Belgium. (International symposium, Poster presentation)

13. Hiroyuki Morimoto, Takafumi Yukawa, Gang Lu, Sean H. Wiedemann, Shigeki Matsunaga, Masakatsu Shibasaki

Development of Direct Catalytic Asymmetric Mannich-Type Reactions Using Trichloromethyl Ketone as Nucleophile and its Application to the Synthesis of Multisubstituted Azetidinecarboxylic Acid Derivatives.

The 38th Congress of Heterocyclic Chemistry, November 22nd, 2008, Fukuyama, Japan. (Oral presentation)

14. Hiroyuki Morimoto, Tatsuhiko Yoshino, Takafumi Yukawa, Gang Lu, Shigeki Matsunaga, Masakatsu Shibasaki

Direct Catalytic *anti*-Selective Mannich-type Reaction Using Trichloromethyl Ketones

as Ester Equivalent Donors.

The 129th Annual Meeting of Pharmaceutical Society of Japan, March 26th, 2009, Kyoto, Japan. (Poster presentation)

15. Hiroyuki Morimoto and John F. Hartwig

Cu-Catalyzed Decarboxylative C-CF₃ Bond Formation.

Meeting with Prof. Masaharu Nakamura Group at Kyoto University, December 22nd, 2009, Kyoto, Japan. (Oral presentation)

16. Hiroyuki Morimoto and John F. Hartwig

Cu-Catalyzed Decarboxylative C-CF₃ Bond Formation and Cu-Mediated C-CF₃ Bond Formation.

Meeting with Prof. Masaharu Nakamura Group at Kyoto University, March 3rd, 2010, Kyoto, Japan. (Oral presentation)

17. Hiroyuki Morimoto, Tatsuhiko Yoshino, Gang Lu, Shigeki Matsunaga, Masakatsu Shibasaki

Construction of Contiguous Tetrasubstituted Chiral Carbon Stereocenters via Direct Catalytic Asymmetric Aldol Reaction of α -Isothiocyanato Esters with Ketones.

7th Seminar of Department of Pharmaceutical Sciences for Young Researchers, July 5th, 2010, Kyushu University, Fukuoka. (Poster Presentation)

18. Hiroyuki Morimoto, Tatsuhiko Yoshino, Gang Lu, Shigeki Matsunaga, Masakatsu Shibasaki

Construction of Contiguous Tetrasubstituted Chiral Carbon Stereocenters via Direct Catalytic Asymmetric Aldol Reaction of α -Isothiocyanato Esters with Ketones.

The 2010 International Chemical Congress of Pacific Basin Societies (The Pacificchem 2010), December 17th, 2010, Hawaii, U.S.A. (Poster Presentation)

19. Hiroyuki Morimoto, Tetsu Tsubogo, Nichole D. Litvinas, John F. Hartwig

General, Copper-Mediated Trifluoromethylation of Aryl Iodides Under Mild Conditions.

The 91st Annual Meeting of Chemical Society of Japan, March 11th, 2011, Japan.

20. Hiroyuki Morimoto, Tetsu Tsubogo, Nichole D. Litvinas, John F. Hartwig
General, Copper-Mediated Trifluoromethylation of Aryl Iodides Under Mild
Conditions.

The 131st Annual Meeting of Pharmaceutical Society of Japan, March 31st, 2011,
Shizuoka, Japan.

21. Hiroyuki Morimoto, Tetsu Tsubogo, Nichole D. Litvinas, John F. Hartwig
General, Copper-Mediated Trifluoromethylation of Aryl Iodides Under Mild
Conditions.

The 9th Symposium on Organic Chemistry-The Next Generation-, May 27th, 2011,
Tokyo, Japan. (Oral Presentation).

22. Hiroyuki Morimoto, Tetsu Tsubogo, Nichole D. Litvinas, John F. Hartwig
General, Copper-Mediated Trifluoromethylation of Aryl Iodides Under Mild
Conditions.

The 58th Symposium on Organometallic Chemistry, September 8th, 2011, Nagoya,
Japan. (Poster Presentation)

23. Kazuhiro Morisaki, Jun-ya Nomaguchi, Hiroyuki Morimoto, Yousuke Takeuchi,
Takahito Kawabata, Kazushi Mashima, Takashi Ohshima

Rh-Catalyzed Direct Catalytic Asymmetric Alkynylation of α -Ketiminoesters.

The 132nd Annual Meeting of the Pharmaceutical Society of Japan, March 30th, 2012,
Hokkaido, Japan (Oral Presentation).

24. Hiroyuki Morimoto, Yuhei Shimizu, Megumi Noshita, Ming Zhang, Takashi
Ohshima

Amide Bond Cleavage via Transamidation: Ammonium-Salt-Accelerated Deacylation
of Unactivated Amides.

10th Seminar of Department of Pharmaceutical Sciences for Young Researchers,
September 7th, 2012, Kyushu University, Fukuoka, Japan (Poster Presentation)

25. Hiroyuki Morimoto, Yuhei Shimizu, Megumi Noshita, Ming Zhang, Takashi

Ohshima

Amide Bond Cleavage via Transamidation: Ammonium-Salt-Accelerated Deacylation of Unactivated Amides.

The 6th Takeda Science Foundation Symposium on PharmaSciences, September 13th, 2012, Osaka, Japan (Poster Presentation, received **Excellent Poster Award**).

26. Hiroyuki Morimoto, Yuhei Shimizu, Megumi Noshita, Ming Zhang, Takashi Ohshima

Stable Amide Bond Cleavage Under Mild Conditions.

12th Systematic Research Core for Drug Development, March 15th, 2013, Fukuoka, Japan (Oral Presentation).

27. Hiroyuki Morimoto, Risa Fujiwara, Yuhei Shimizu, Kazuhiro Morisaki, Takashi Ohshima

Lanthanum Trifluoromethanesulfonate-Catalyzed Amidation of Esters with Amines.

The 133rd Annual Meeting of the Pharmaceutical Society of Japan, March 30th, 2013, Yokohama, Japan (Poster Presentation).

28. Hiroyuki Morimoto, Risa Fujiwara, Yuhei Shimizu, Kazuhiro Morisaki, Takashi Ohshima

Lanthanum Triflate-Catalyzed Direct Amidation of Esters with Amines.

The 23rd French-Japanese Symposium on Medicinal and Fine Chemistry, May 13th, 2013, Nagasaki, Japan (Poster Presentation).

29. Hiroyuki Morimoto, Yuhei Shimizu, Megumi Noshita, Yuri Mukai, Risa Fujiwara, Kazuhiro Morisaki, Takashi Ohshima

Development of Amide Bond-Cleaving and -Forming Reactions Under Mild Conditions.

The 39th Symposium on Progress in Organic Reactions and Syntheses, November 5th, 2013, Fukuoka, Japan (Poster Presentation).

30. Hiroyuki Morimoto, Takashi Ohshima

Development of Amide Bond-Cleaving Reactions Under Mild Conditions

Grant-in-Aid for Scientific Research on Innovative Areas “Organic Synthesis Based on Reaction Integration. Development of New Methods and Creation of New Substances” Open Symposium, January 24th, 2014, Tokyo, Japan (Poster Presentation).

31. Hiroyuki Morimoto

Development of Environmentally Friendly Catalytic Reactions for the Construction of Chemical Library.

The 134th Annual Meeting of the Pharmaceutical Society of Japan, March 30th, 2014, Kumamoto, Japan (Oral Presentation).

32. Hiroyuki Morimoto, Risa Fujiwara, Yuhei Shimizu, Kazuhiro Morisaki, Takashi Ohshima

Lanthanum Triflate-Catalyzed Direct Amidation of Esters.

JSPC 2014 Summer Symposium, July 31th, 2014, Tokyo, Japan (Poster Presentation, received **JSPC Excellent Award**)

33. Hiroyuki Morimoto, Kazuhiro Morisaki, Jun-ya Nomaguchi, Yousuke Takeuchi, Takahito Kawabata, Kazushi Mashima, Takashi Ohshima

Development and Mechanistic Analysis of Rh-Catalyzed Direct Enantioselective Alkynylation of α -Ketiminoesters.

The 61st Symposium on Organometallic Chemistry, September 24th, 2014, Fukuoka, Japan. (Oral Presentation)

34. Hiroyuki Morimoto

Development of Practical Amide Bond-Forming and -Cleaving Reactions for the Synthesis of Fine Chemicals such as Medicines.

Kyushu University Technology Forum 2014, December 3rd, 2014, Tokyo, Japan (Oral and Poster Presentation)

35. Hiroyuki Morimoto, Risa Fujiwara, Yuhei Shimizu, Kazuhiro Morisaki, Takashi Ohshima

Lanthanum Triflate-Catalyzed Direct Amidation of Esters.

JSPC 2014 Winter Symposium, December 5th, 2014, Toyama, Japan (Oral Presentation,

Invited Award Lecture)