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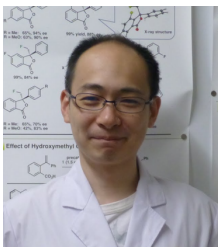

**Professional Career**

Oct. 2020 – present Associate Professor, University of Shizuoka (Professor Yoshitaka Hamashima)

Dec. 2016 – Sept. 2020 Lecturer, University of Shizuoka (Professor Yoshitaka Hamashima)

Oct. 2013 – Nov. 2016 Assistant Professor, University of Shizuoka (Professor Yoshitaka Hamashima)

Apr. 2012 – Mar. 2014 Group Leader (Live Cell Reaction Group), Sodeoka Live Cell Chemistry Project, ERATO, Japan Science and Technology Agency (Professor Mikiko Sodeoka)

Apr. 2009 – Mar. 2012 Post-Doctoral Fellow, Sodeoka Live Cell Chemistry Project, ERATO, Japan Science and Technology Agency (Professor Mikiko Sodeoka)

**Education**

Mar. 2009 Ph.D., Department of Chemistry, Faculty of Science, Graduate School, Kyushu University (Professor Tsutomu Katsuki)

Mar. 2006 M.Sc., Department of Chemistry, Faculty of Science, Graduate School, Kyushu University (Professor Tsutomu Katsuki)

Mar. 2004 B.Sc., Department of Chemistry, Faculty of Science, Kyushu University (Professor Tsutomu Katsuki)

**Fellowship and Award**

Thieme Chemistry Journals Award (Jan. 2020)
The Pharmaceutical Society of Japan Award for Young Scientists (Mar. 2019)
TORAY Award in Synthetic Organic Chemistry, Japan (Dec. 2016)
CSJ Presentation Award 2016 (Mar. 2016)
Poster Award in the 39th Naito Conference (June 2015)

JSPS Research Fellowships for Young Scientists (Apr. 2006 – Mar. 2009)
CSJ Student Presentation Award 2008 (Mar. 2008)

**Publication List**

[Original papers]

1. In vivo delivery of antioxidant enzymes with multi-functionalized lipid nanoparticles for sepsis therapy
   Hiroyuki Koide Shinya Hirata, Midori Watanabe, Hiroki Ochiai, Tatsuya Kobayashi, Go Yasuno, Hajime Mizuno, Eiji Sugiyama, Shohei Kojima, Takehisa Dewa, Hiromichi Egami, Sei Yonezawa, Naoto Oku, Tomohiro Asai,
   *J. Controlled Release* **2025**, *382*, 113734.
2. Thiobenzoic Acid-Catalyzed Cα–H Cross Coupling of Benzyl Alcohols with α-Ketoacid Derivatives
   Kaichi Sato, Hiromichi Egami, Yoshitaka Hamashima
   *Org. Lett.* **2024**, *26*, 5285-5289.
3. Asymmetric Fluorocyclization of Difluoroalkenes with Concomitant Formation of a Trifluoromethyl Group
   Chino Igarashi, Tomoya Mayumi, Hiromichi Egami, Yoshitaka Hamashima
   *Org. Lett.* **2024**, *26*, 1723-1727.
4. Simple purification of small-molecule-labelled peptides *via* palladium enolate formation from β-ketoamide tags
   Kenji Hayamizu, Kota Koike, Kosuke Dodo, Miwako Asanuma, Hiromichi Egami, Mikiko Sodeoka
   *Chem. Sci.* **2023**, *14*, 8249-8254.
5. Structure Dependence in Asymmetric Deprotonative Fluorination and Fluorocyclization Reactions of Allylamine Derivatives with Linked Binaphthyl Dicarboxylate Phase-Transfer Catalyst
   Tomoki Niwa, Kousuke Nishibashi, Hitomi Sato, Kiyoshi Ujiie, Kenji Yamashita, Hiromichi Egami, Yoshitaka Hamashima
   *J. Am. Chem. Soc.* **2021**, *143*, 16599-16609.
6. Dearomative enantio- and diastereoselective difluorination of resorcinol derivatives
   Minami Otusbo, Kousuke Sakimoto, Hiromichi Egami, Yoshitaka Hamashima
   *Tetrahedron* **2021**, *96*, 132335.
7. Design of synthetic polymer nanoparticles that inhibit glucose absorption from the intestine
   Hiroyuki Koide, Naoki Hayashi, Go Yasuno, Anna Okishima, Yu Hoshino, Hiromichi Egami, Yoshitaka Hamashima, Naoto Oku, Tomohiro Asai
   *Biochem. Biophys. Res. Commun.* **2021**, *561*, 1-6.
8. Enhancement of target toxin neutralization effect in vivo by PEGylation of multifunctionalized lipid

nanoparticles

Hiroyuki Koide, Hikaru Suzuki, Hiroki Ochiai, Hiromichi Egami, Yoshitaka Hamashima, Naoto Oku, Tomohiro Asai

*Biochem. Biophys. Res. Commun.* **2021**, *555*, 32-39.

9. Dual-Role Catalysis by Thiobenzoic Acid in Cα–H Arylation under Photoirradiation

   Fumihisa Kobayashi, Masashi Fujita, Takafumi Ide, Yuta Ito, Kenji Yamashita, Hiromichi Egami, Yoshitaka Hamashima

   *ACS Catal.* **2021**, *11*, 82-87.

10. Oxidative and Redox-Neutral Approaches toward Synthesis of Symmetrical Diamines and Diols by Single Electron Transfer/Hydrogen Atom Transfer Synergistic Catalysis

    Masashi Fujita, Fumihisa Kobayashi, Takafumi Ide, Hiromichi Egami, Yoshitaka Hamashima

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11. Asymmetric Dearomatizing Fluoroamidation of Indole Derivatives with Dianion Phase-transfer Catalyst

    Hiromichi Egami, Ryo Hotta, Minami Otsubo, Taiki Rouno, Tomoki Niwa, Kenji Yamashita, Yoshitaka Hamashima

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12. Asymmetric Dearomative Fluorination of 2-Naphthols with Dianionic Phase-Transfer Catalyst

    Hiromichi Egami, Taiki Rouno, Tomoki Niwa, Kousuke Masuda, Kenji Yamashita, Yoshitaka Hamashima

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13. $^{18}$F-Labeled hydromethidine: Positron emission tomography radiotracer for detection of reactive oxygen species in brain

    Hiromichi Egami, Satoshi Nakagawa, Yuki Katsura, Masakatsu Kanazawa, Shingo, Nishiyama, Toshihiro Sakai, Yasushi Arano, Hideo Tsukada, Osamu Inoue, Kenichiro Todoroki, Yoshitaka Hamashima

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14. Enantioselective 5-*exo*-Fluorocyclization of Ene-Oximes

    Taiki Rouno, Tomoki Niwa, Kousuke Nishibashi, Nobuharu Yamamoto, Hiromichi Egami, Yoshitaka Hamashima

    *Molecules*, **2019**, *24*, 3464.

15. Thiocyanation of Aromatic and Heteroaromatic Compounds with 1-Chloro-1,2-benziodoxol-3-(*1H*)-one and (Trimethylsilyl)isothiocyanate

    Yuta Ito, Akihiro Touyama, Minako Uku, Hiromichi Egami, Yoshitaka Hamashima

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Anna Okishima, Hiroyuki Koide, Yu Hoshino, Hiromichi Egami, Yoshitaka Hamashima, Naoto Oku, Tomohiro Asai

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17. Rigorous control of vesicle-forming lipid p*K*a by fluorine-conjugated bioisosteres for gene-silencing with siRNA

    Ayaka Okamoto, Hiroyuki Koide, Naoki Morita Yusuke Hirai, Yuji Kawato, Hiromichi Egami, Yoshitaka Hamashima, Tomohiro Asai, Takehisa Dewa, Naoto Oku

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18. Sequestering and inhibiting a vascular endothelial growth factor *in vivo* by systemic administration of a synthetic polymer nanoparticle

    Hiroyuki Koide, Keiichi Yoshimatsu, Yu Hoshino, Saki Ariizumi, Anna Okishima, Takafumi Ide, Hiromichi Egami, Yoshitaka Hamashima, Yuri Nishimura, Hiroaki Kanazawa, Yoshiko Miura, Tomohiro Asai, Naoto Oku, Kenneth J. Shea

    *J. Controlled Release* **2019**, *295*, 13-20.

19. *C*-alkylation of *N*-alkylamides with styrenes in air and scale-up using a microwave flow reactor

    Joshua P. Barham, Souma Tamaoki, Hiromichi Egami, Noriyuki Ohneda, Tadashi Okamoto, Hiromichi Odajima, Yoshitaka Hamashima

    *Org. Biomol. Chem.* **2018**, *16*, 7568-7573.

20. Regio- and chemoselective $Csp^3$–H arylation of benzylamines by single electron transfer/hydrogen atom transfer synergistic catalysis

    Takafumi Ide, Joshua, P. Barham, Masashi Fujita, Yuji Kawato, Hiromichi Egami, Yoshitaka Hamashima

    *Chem. Sci.* **2018**, *9*, 8453-8460.

21. Asymmetric Fluorination of Cyclic Tetrasubstituted Alkenes with a Pendant Amide Groups under Dianionic Phase-transfer Catalysis

    Tomoki Niwa, Kiyoshi Ujiie, Hitomi Sato, Hiromichi Egami, Yoshitaka Hamashima

    *Chem. Pharm. Bull.* **2018**, *66*, 920-922.

22. Scalable Microwave-Assisted Johnson-Claisen Rearrangement with Continuous Flow Microwave System

    Hiromichi Egami, Souma Tamaoki, Masato Abe, Noriyuki Ohneda, Takeo Yoshimura, Tadashi Okamoto, Hiromichi Odajima, Nobuyuki Mase, Kazuhiro Takeda, Yoshitaka Hamashima

    *Org. Proc. Res. Dev.* **2018**, *22*, 1029-1033.

23. Redox-neutral C–H cyanation of tetrahydroisoquinolines under photoredox catalysis

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24. (*E*)-3-(4-(Pent-4-en-1-yloxy)phenyl)acrylic acid

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31. Enantioselective Allyl-, and Allenylboration of Aldehydes Catalyzed by Chiral Hydroxyl Carboxylic Acid
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*Synlett* **2017**, *28*, 976-980.
32. α-Functionalization of Tetrahydroisoquinolines with Activated Alkyl Bromide under Photoredox Catalysis
Takafumi Ide, Kazunori Shimizu, Yuji Kawato, Hiromichi Egami, Yoshitaka Hamashima
*Heterocycles* **2017**, *95*, 738-747.
33. Difunctionalization of Alkenes Using 1-Chloro-1,2-benziodoxol-3-(1*H*)-one
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34. Highly Enantioselective Bromocyclization of Allylic Amides with a Novel P/P=O Double-site Lewis Base Catalyst
    Yuji Kawato, Hiromi Ono, Akino Kubota, Yoshihiro Nagao, Naoki Morita, Hiromichi Egami, Yoshitaka Hamashima
    *Chem. Eur. J.* **2016**, *22*, 2127-2133.
35. Benzylic C–H trifluoromethylation of phenol derivatives
    Hiromichi Egami, Takafumi Ide, Yuji Kawato, Yoshitaka Hamashima
    *Chem. Commun.* **2015**, *51*, 16675-16678.
36. Asymmetric Fluorolactonization with a Bifunctional Hydroxyl Carboxylate Catalyst
    Hiromichi Egami, Junshi Asada, Kentaro Sato, Daisuke Hashizume, Yuji Kawato, Yoshitaka Hamashima
    *J. Am. Chem. Soc.* **2015**, *137*, 10132-10135.
37. Mechanistic study on a unique $S_N2$'-type reaction of allylic alcohols with organolithium reagent accelerated by a proximal trifluoromethyl group
    Hiromichi Egami, Yoshihiko Usui, Shintaro Kawamura, Ryo Shimizu, Sayoko Nagashima, Mikiko Sodeoka
    *J. Fluorine Chem.* **2015**, *179*, 121-128.
38. Product Control in Alkene Trifluoromethylation: Hydro-trifluoromethylation, Vinylic Trifluoromethylation and Iodo-trifluoromethylation Using Togni reagent
    Hiromichi Egami, Yoshihiko Usui, Shintaro Kawamura, Sayoko Nagashima, Mikiko Sodeoka
    *Chem. Asian J.* **2015**, *10*, 2190-2199.
39. Concise synthesis of binaphthol-derived chiral dicarboxylic acids
    Hiromichi Egami, Kentaro Sato, Junshi Asada, Yuji Kawato, Yoshitaka Hamashima
    *Tetrahedron* **2015**, *71*, 6384-6388.
40. Aminotrifluoromethylation via Cyclic Amine Formation of Olefins: Mechanistic Study and Application to Synthesis of Trifluoromethylated Pyrrolidines
    Shintaro Kawamura, Hiromichi Egami, Mikiko Sodeoka
    *J. Am. Chem. Soc.* **2015**, *137*, 4865-4873.
41. Enantioselective Bromocyclization of Allylic Amides Catalyzed by BINAP Derivatives
    Yuji Kawato, Akino Kubota, Hiromi Ono, Hiromichi Egami, Yoshitaka Hamashima
    *Org. Lett.* **2015**, *17*, 1244-1247.
42. Development of a highly efficient single-mode microwave applicator with a resonant cavity and its application to continuous flow syntheses
    Saori Yokozawa, Noriyuki Ohneda, Ken Muramatsu, Tadashi Okamoto, Hiromichi Odajima, Takashi Ikawa, Jun-ichi Sugiyama, Masashi Fujita, Taira Sawairi, Hiromichi Egami, Yoshitaka Hamashima, Masahiro Egi, Shuji Akai

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43. Dual Catalysis with Copper and Rhenium for Trifluoromethylation of Propargylic Alcohols: Efficient Synthesis of $\alpha$-Trifluoromethylated Enones
    Hiromichi Egami, Takafumi Ide, Masashi Fujita, Toshifumi Tojo, Yoshitaka Hamashima, Mikiko Sodeoka
    *Chem. Eur. J.* **2014**, *20*, 12061-12065.
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    Hiromich Egami, Ryo Shimizu, Yoshihiko Usui, Mikiko Sodeoka
    *J. Fluorine Chem.* **2014**, *167*, 172-178.
45. A "Catch-and-Release" Protocol of Alkyne-Tagged Molecules Based on a Resin-Bound Cobalt Complex for Peptide Enrichment in Aqueous Media
    Ayako Miyazaki, Miwako Asanuma, Kosuke Dodo, Hiromichi Egami, Mikiko Sodeoka
    *Chem. Eur. J.* **2014**, *20*, 8116-8128.
46. Iron-catalyzed trifluoromethylation with concomitant C–C bond formation via 1,2-migration of an aryl group
    Hiromichi Egami, Ryo Shimizu, Yoshihiko Usui, Mikiko Sodeoka
    *Chem. Commun.* **2013**, *49*, 7346-7348.
47. Trifluoromethylation Reactions for the Synthesis of $\beta$-Trifluoromethylamines
    Hiromichi Egami, Shintaro Kawamura, Ayako Miyazaki, Mikiko Sodeoka
    *Angew. Chem. Int. Ed.* **2013**, *52*, 7841-7844.
48. Concise synthesis of oxindole derivatives bearing a 3-trifluoroethyl group: Copper-catalyzed trifluoromethylation of acryloanilides
    Hiromichi Egami, Ryo Shimizu, Mikiko Sodeoka
    *J. Fluorine Chem.* **2013**, *152*, 51-55.
49. Alkene Trifluoromethylation Coupled with C–C Bond Formation: Construction of Trifluoromethylated Carbocycles and Heterocycles
    Hiromichi Egami, Ryo Shimizu, Shintaro Kawamura, Mikiko Sodeoka
    *Angew. Chem. Int. Ed.* **2013**, *52*, 4000-4003.
50. Rapid Trifluoromethylation of Indole Derivatives
    Ayako Miyazaki, Ryo Shimizu, Hiromichi Egami, Mikiko Sodeoka
    *Heterocycles* **2012**, *86*, 979-983.
51. Oxytrifluoromethylation of multiple bonds using copper catalyst under mild conditions
    Hiromichi Egami, Ryo Shimizu, Mikiko Sodeoka
    *Tetrahedron Lett.* **2012**, *53*, 5503-5506.
52. Copper-Catalyzed Trifluoromethylation of Allylsilanes

Ryo Shimizu, Hiromichi Egami, Yoshitaka Hamashima, Mikiko Sodeoka
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Kenji Matsumoto, Hiromichi Egami, Takuya Oguma, Tsutomu Katsuki
*Chem. Commun.* **2012**, *48*, 5823-5825.
54. Catch and release of alkyne tagged molecules in water by a polymer supported cobalt complex
Hiromichi Egami, Shinji Kamisuki, Kosuke Dodo, Miwako Asanuma, Yoshitaka Hamashima, Mikiko Sodeoka
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Ryo Shimizu, Hiromichi Egami, Tatsuya Nagi, Jungha Chae, Yoshitaka Hamashima, Mikiko Sodeoka
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Hiromichi Egami, Kenji Matsumoto, Takuya Oguma, Takashi Kunisu, Tsutomu Katsuki
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66. Enantioselective Epoxidation of Conjugated *Z*-Olefins with Newly Modified Mn(salen) Complex
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[Reviews & Books]

1. 触媒的不斉フッ素化反応
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2. Asymmetric Fluorofunctionalizations with Carboxylate-Based Phase-Transfer Catalysts
Hiromichi Egami, Yoshitaka Hamashima
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3. アニオン性相間移動触媒の創製と不斉フッ素化反応の開発
   江上寛通, 濱島義隆
   有機合成化学協会誌 **2022**, *80*, 632-644.
4. フロー型マイクロ波照射装置の有機合成反応への利用
   江上寛通, 吉村武朗, 濱島義隆
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7. Fluorofunctionalizations of C–C Multiple Bonds and C–H Bonds
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13. $S_N2$ Reaction on Vinylic Carbon
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