Nara Institute of Science and Technology
8916-5 Takayama-cho, Ikoma, Nara, 630-0192, Japan

Hiroki Tanimoto

(Ph.D.)

E-mail: tanimoto[atsign]ms.naist.jp
Born in Nagano, Japan, 1981

Assistant Professor
Division of materials science
Graduate school of science and technology
Nara Institute of Science and Technology
(NAIST)

8916-5 Takayama-cho, Ikoma, Nara 630-0192, JAPAN

ORCID ID: 0000-0002-4121-6807
http://orcid.org/0000-0002-4121-6807
Publons ID: 633270
https://publons.com/author/633270
Researchmap
https://researchmap.jp/read0152705

Biography

Hiroki Tanimoto was born in 1981 in Nagano, Japan. He received his BS in 2004 and his Ph. D. in 2009 at Keio University in Japan under the direction of Professor Noritaka Chida. After a year as a postdoctoral fellow at the Vanderbilt University in the United States with Professor Gary A. Sulikowski, he joined the faculty at Nara Institute of Science and Technology (NAIST) in Japan in 2010. His research focuses on new synthetic methods utilizing nitrogen-containing reactive functional groups such as azido and nitroso groups for alkaloids synthesis, heterocycles synthesis, and click chemistry toward functional polymers or chemical probes. He also engages himself in main group chemistry, especially, synthesis and characterization of new germanium and silicon materials.

Education

Apr/2004–Mar/2009	M.S. and Ph.D. (chemistry), Keio University (Prof. Noritaka Chida), Japan (Thesis title: Synthetic study on bioactive alkaloids by way of Claisen rearrangement and its cascade reaction) 私立慶應義塾大学大学院理工学研究科基礎理工学専攻後期博士課程修了・博士(理学) 取得 (指導教員：千田憲孝 教授、博士論文題目「Claisen 転位ならびにそのカスケード反応を利用した生物活性アルカロイド類の合成研究」)
Apr/2000–Mar/2004	B.S., Keio University (Prof. Noritaka Chida, Bachelor thesis title: Modified synthetic route to actinobolin), Japan 私立慶應義塾大学理工学部応用化学科卒業 (指導教員：千田憲孝教授、卒業論文「Actinobolinの新規合成経路の開発研究」)
Apr/1997–Mar/2000	Keio high school, Japan 私立慶應義塾高校卒業
–Mar/1997	Jakarta Japanese School (JJS), Indonesia 私立ジャカルタ日本人学校中学部(インドネシア)卒業

Academic and related experiences

Apr/2019–Mar/2021	Associate member of editorial board of Journal of Synthetic Organic Chemistry, Japan (Yuukigoseikagakukyoukaishi, 有機合成化学協会誌)
Apr/2013–Jul/2014	Committee member of ICOMC2014 (XXVI International Conference on Organometallic Chemistry, Sapporo, JAPAN)
Dec/2012–Mar/2013	Committee of CSJ meeting (Osaka)
Apr/2010–present	Assistant Professor, Nara Institute of Science and Technology (joining Prof. Kiyomi Kakiuchi and Prof. Tsumoru Morimoto's group)
Apr/2009–Mar/2010	Postdoctoral fellow, Vanderbilt University (Prof. Gary A. Sulikowski), TN, The United States
Apr/2006–May/2007	Research Assistant (RA) of 21st Century COE Programs in Keio University "Keio Life-Conjugated Chemistry program"

Reviewed at least one article for

- ACS Omega
- Advanced Synthesis & Catalysis
- Angewandte Chemie, International Edition

- BioNanoScience
- Bioorganic & Medicinal Chemistry
- Bioorganic & Medicinal Chemistry Letters
- Bulletin of the Chemical Society of Japan
- Chemical Communications
- Chemistry—A European Journal
- Chemistry—An Asian Journal
- Chemistry Letters
- Current Organic Chemistry
- European Journal of Organic Chemistry
- Heterocycles
- Journal of Natural Products
- Journal of Oleo Science
- The Journal of Organic Chemistry
- Journal of Photochemistry and Photobiology A: Chemistry
- Molecules
- Natural Product Communications
- New Journal of Chemistry
- Organic & Biomolecular Chemistry
- Organic Chemistry Frontiers
- Organic Letters
- Polymer Chemistry
- RSC Advances
- Synthesis
- Synthetic Communications
- Tetrahedron
- Tetrahedron Letters
- Toxins

Class-Teaching and Evaluation Experiences

At Nara Institute of Science and Technology (NAIST)

- Advanced Synthetic Organic and Polymer Chemistry
  (Both in Japanese and English, 2018–)
- Materials Science and Engineering PBL II (2018–)
- Synthetic Organic Chemistry (i) (English class, 2016–2017)
- Advanced organic reactions and stereochemistry (2014–2017)

• Synthetic Organic Chemistry (2012–2013)
• Opto-Nano Science I (2010– 2011)
• Evaluation of Ph.D. Thesis (2012–)

Students Mentered

• Kazuki Tojo (2018.4–, master course)
• Seiji Ohnishi (2017.4–2019–3, master course)
• Takashi Furuya (2016.4–2019.3, Ph. D)
• Tomomi Ueda (2016.4–2018.3, master course)
• Daiki Tomori (2016.4–2018.3, master course)
• Arif Fadlan (2015.4–2018.3, Ph. D)
61st Symposium on the Chemistry of Terpenes, Essential Oils, and Aromatics (TEAC) Best Presentation Award (2017)
⇒Lecturer at Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia
• Sho Ueda (2015.4–2017.3, master course)
• Junta Mori (2015.4–2017.3, master course)
• Taiki Yokoi (2014.4–2019.3, Ph. D)
• Satoshi Itadani (2014.10–2015.9, Ph. D)
• Takashi Shitaoka (2014.4–2016.3, master course)
• Taro Fujiwara (2014.4–2016.3, master course)
• Masao Sakairi (2013.4–.2014.3, Ph. D)
• Tomohiko Nagao (2013.4–2015.3, master course)
• Keiichi Yokoyama (2013.4–2015.3, master course)
• Takahiro Sugiura (2012.4–2014.1)
• Yusuke Mizutani (2011.4–2016.3, Ph. D)
• Kyohei Hayashi (2010.4–2013.3, Ph. D)
• Huan Zhang (2010.4–2015.3, Ph. D)
94th CSJ Annual Meeting Presentation Award (2014)
NAIST Best student award winner (2015)
⇒Lecturer at Tianjin University of Technology, China

Memberships

• Chemical Society of Japan (CSJ) (2032649500)
• The Society of Synthetic Organic Chemistry, Japan (7837)
• Kinki Chemical Society, Japan (31287)

• The Society of Polymer Science, Japan (1603143-00)
• The Society of Silicon Chemistry JAPAN
• International Society of Heterocyclic Chemistry (004910)

Fellowships

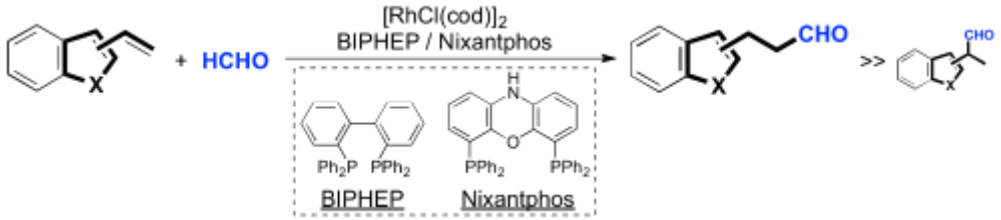
2008	Fujiwara Fellowship from Keio University
2008	Postdoctoral Fellowship from Mochida Memorial Foundation for Medical and Pharmaceutical Research

Awards and Grants

2019	Research grant of NAIST foundation (31390000)
2019	2018 NAIST Academic Encouragement Award (Division of Materials Science)
2018–2020	JSPS KAKENHI (C) (18K05460)
2017	The Japan Science Society: Promotion grant for oversea presentation
2017	The Society of Silicon Chemistry Japan: Promotion grant for presentation on SOS XVIII/ASiS-6
2017–2018	Research grant of NAIST foundation (29390001)
2016–2017	Suzuken memorial foundation grant (16-073)
2015–2017	Grant-in-Aid of MEXT Japan for Scientific Research on Innovative Areas “New Polymeric Materials Based on Element-Blocks (No.2401)” (15H00750)
2015–2017	Grants-in-Aid of MEXT for Young Scientists (B) (15K17856)
2013–2014	Sasakawa Scientific Research Grant from the Japan Science Society (25-303)
2012–2013	Grant for young scientists on photonanoscience (from NAIST)
2011–2012	Grant for young scientists on photonanoscience (continued)
2011	The Otsuka Pharmaceutical Co. Award in Synthetic Organic Chemistry (Japan).
2010–2011	Grant for young scientists on photonanoscience (from NAIST)

Publications (Research Papers)

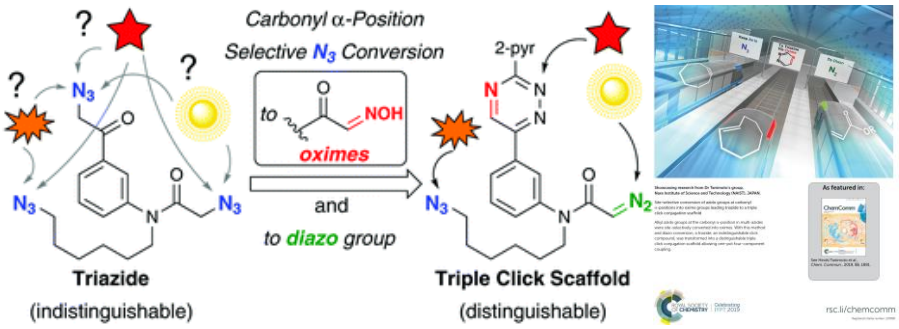
57) Jian Pan, *Tsumoru Morimoto, Hideyuki Kobayashi, **Hiroki Tanimoto**, Kiyomi Kakiuchi, "The Use of Formaldehyde in the Rhodium-Catalyzed Linear-Selective Hydroformylation of Vinylheteroarenes", *Heterocycles* **2019**, *98(4)*, XXXX–XXXXX (DOI: 10.3987/COM-19-14064)



56) Taiki Yokoi, Tomomi Ueda, ***Hiroki Tanimoto**, Tsumoru Morimoto, Kiyomi Kakiuchi, "Site-Selective Conversion of Azido Groups at Carbonyl α-Positions into Oxime Groups Leading Triazide to Triple Click Conjugation Scaffold", *Chem. Commun.* **2019**, *55(13)*, 1891–1894. (DOI: 10.1039/C8CC09415B)

(**Selected as Inside Back Cover**)

• Highlighted in International Society of Heterocyclic Chemistry (ISHC) Bulletin, March, 2019

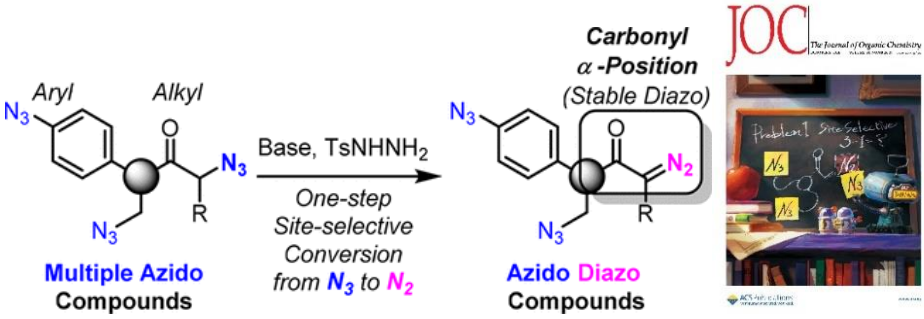


55) Taiki Yokoi, ***Hiroki Tanimoto**, Tomomi Ueda, Tsumoru Morimoto, Kiyomi Kakiuchi, "Site-selective Conversion of Azido Groups at Carbonyl α-Positions to Diazo Groups in Di- and Triazido Compounds", *J. Org. Chem.* **2018**, *83(19)*, 12103–12121.

(DOI: 10.1021/acs.joc.8b02074)

(**Selected as Supplementary Cover**)

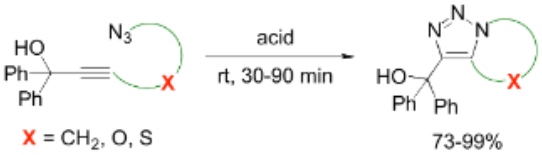
• Highlighted in International Society of Heterocyclic Chemistry (ISHC) Bulletin, October, 2018



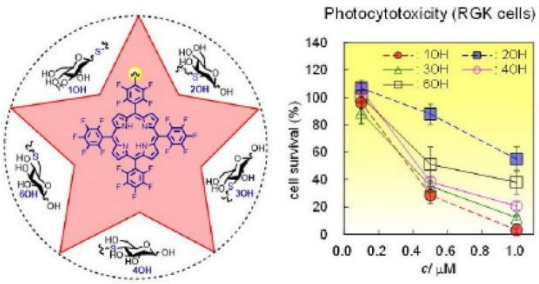
54) Maurin Marcelia, *Ade Arsianti, Jilly Octaria Tagore Chan, Stevano Julio Wijoyo, Fadilah Fadilah, Rista Putrianingsih, Norma Nur Azizah, Anton Bahtiar, **Hiroki Tanimoto**, Kiyomi Kakiuchi, "In Vitro Cytotoxicity of the Synthesized Gallic Acid Derivatives (*N*-Alkyl Gallamide) Against Breast MCF-7 Cancer Cells", *Orient. J. Chem.* ***2018**, 34(5), 2268–2272*. (DOI: 10.13005/ojc/340506)

53) *Ade Arsianti, Hendry Astuti, Fadilah, Daniel Martin Simadibrata, Zoya Marie Adyasa, Daniel Amartya, Anton Bahtiar, **Hiroki Tanimoto**, Kiyomi Kakiuchi, "Synthesis and in Vitro Antimalarial Activity of Alkyl Esters Gallate as a Growth Inhibitors of Plasmodium Falciparum", *Orient. J. Chem.* **2018**, *34(2)*, 655–662. (DOI: 10.13005/ojc/340207)

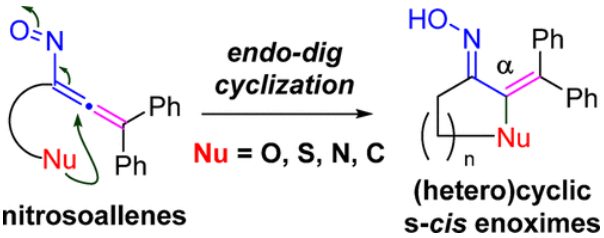
52) Youlai Zhang, Mengdi Wang, Junru Li, Qingtong Di, Ziye Tian, Baoquan Chen, *Huan Zhang, **Hiroki Tanimoto**, Tsumoru Morimoto, Kiyomi Kakiuchi, "Acid Promoted Metal Free Synthesis of Triazole-Fused Heterocycles via Intramolecular [3+2] Cycloaddition", *Heterocycles* **2018**, *96(5)*, 943–953. (DOI: 10.3987/COM-18-13900)



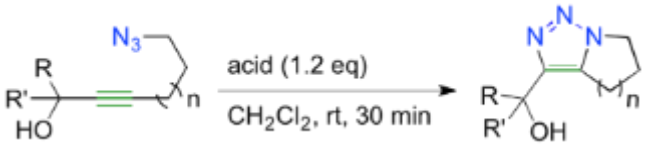
51) Arif Fadlan, **Hiroki Tanimoto**, Tatsuya Ito, Yusuke Aritomi, Maho Ueno, Masaya Tokuda, *Shiho Hirohara, Makoto Obata, Tsumoru Morimoto, *Kiyomi Kakiuchi, "Synthesis, Photophysical Properties, and Photodynamic Activity of Positional Isomers of TFPP-Glucose Conjugates", *Bioorg. Med. Chem.* **2018**, *26(8)*, 1848–1858.
(DOI: 10.1016/j.bmc.2018.02.031)



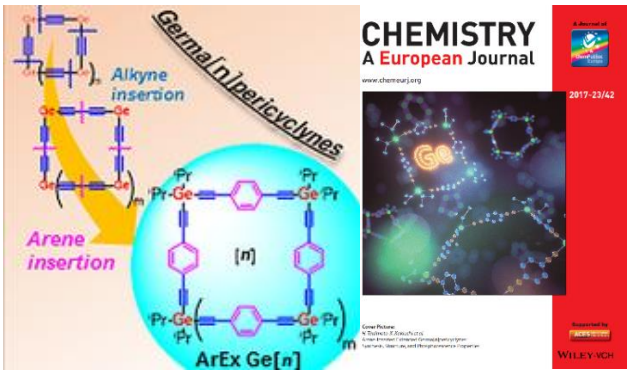
50) ***Hiroki Tanimoto**, Sho Ueda, Tsumoru Morimoto, Kiyomi Kakiuchi, "Nitrosoallene-mediated Endo Cyclizations for the Synthesis of (Hetero)cyclic α-Substituted Exo-unsaturated Oximes", *J. Org. Chem.* **2018**, *83(3)*, 1614–1626.
(DOI: 10.1021/acs.joc.7b02936)
• Highlighted in International Society of Heterocyclic Chemistry (ISHC) Bulletin, April, 2018



49) Youlai Zhang, Junru Li, Mengdi Wang, *Huan Zhang, **Hiroki Tanimoto**, Tsumoru Morimoto, Kiyomi Kakiuchi, "Synthesis of Fused 1,2,3-Triazoles through Carbocation-Mediated Intramolecular [3+2] Cycloaddition of Azido-propargyl Alcohols", *Heterocycles* **2017**, *94(9)*, 1775–1782. (DOI: 10.3987/COM-17-13763)

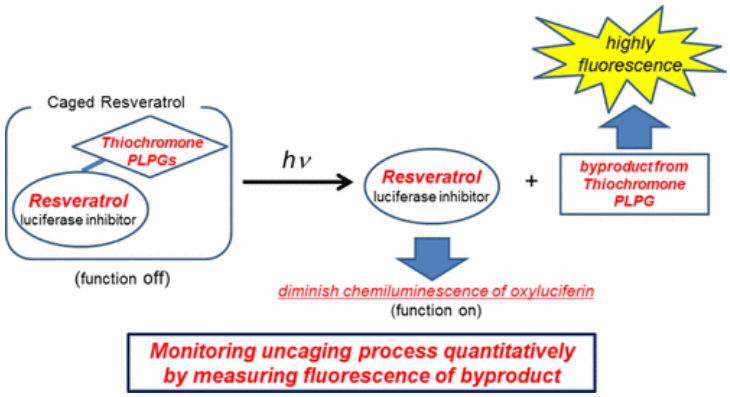


48) ***Hiroki Tanimoto**, Junta Mori, Shunichiro Ito, Yasuhiro Nishiyama, Tsumoru Morimoto, Kazuo Tanaka, Yoshiki Chujo, *Kiyomi Kakiuchi, "Arene-inserted Extended Germa[*n*]pericyclynes: Synthesis, Structure, and Phosphorescence Properties", *Chem. Eur. J.* **2017**, *23(42)*, 10080–10086. (DOI: 10.1002/chem.201701359)
(**Selected as Inside Back Cover Article**)
(**Selected as Hot Paper**)

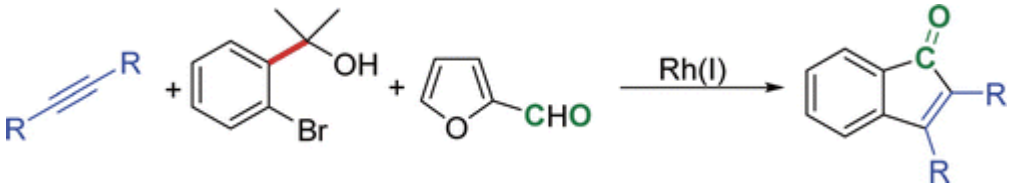


47) *Ade Arsianti, Fadilah Fadilah, Kusmardi Kusmardi, Gede Yuda Sugiarta, **Hiroki Tanimoto**, Kiyomi Kakiuchi, "In Silico Study and Cytotoxicity of the Synthesized Open-Chain Analogues of Antimycin A3 Against HEP-2 Laryngeal Cancer Cells", *Curr. Cancer Ther. Rev.* **2017**, *13(2)*, 129–126. (DOI: 10.2174/1573394713666170712113049)

46) Shin Hikage, *Yasuhiro Nishiyama, Yasuo Sasaki, **Hiroki Tanimoto**, Tsumoru Morimoto, *Kiyomi Kakiuchi, "Quantitative Photodeprotection Assessment of Caged Resveratrol by Fluorescence Measurement", *ACS Omega* **2017**, *2(5)*, 2300–2307. (DOI: 10.1021/acsomega.7b00250)

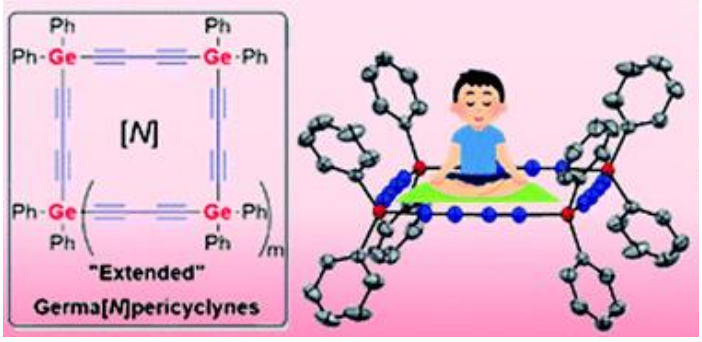


45) Takuma Furusawa, **Hiroki Tanimoto**, Yasuhiro Nishiyama, *Tsumoru Morimoto, Kiyomi Kakiuchi, "Rhodium-Catalyzed Carbonylative Annulation of 2-Bromobenzylic Alcohols with Internal Alkynes Using Furfural via β-Aryl Elimination", *Chem. Lett.* **2017**, *46(7)*, 926–929. (DOI: 10.1246/cl.170249)

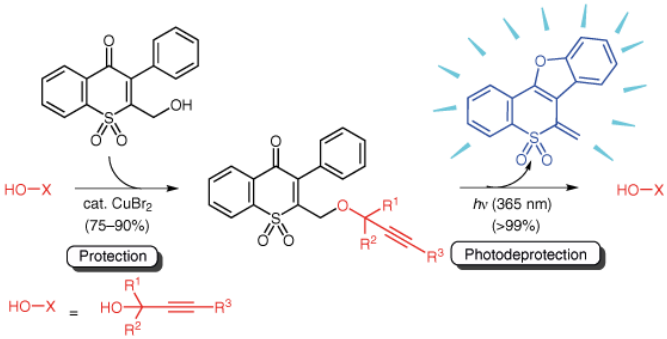


44) ***Hiroki Tanimoto**, Taro Fujiwara, Junta Mori, Tomohiko Nagao, Yasuhiro Nishiyama, Tsumoru Morimoto, Shunichiro Ito, Kazuo Tanaka, Yoshiki Chujo, *Kiyomi Kakiuchi, "Extended Germa[*N*]pericyclynes: Synthesis and Characterization", *Dalton Trans.* **2017**,

46(7), 2281–2288. (DOI: 10.1039/C6DT04633A) **[Altmetric score]**

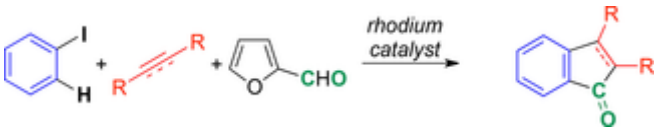


43) Chi Ma, *Youlai Zhang, *Huan Zhang, Junru Li, Yasuhiro Nishiyama, **Hiroki Tanimoto**, Tsumoru Morimoto, Kiyomi Kakiuchi, "Synthesis and Photochemistry of a New Photolabile Protecting Group for Propargylic Alcohols", *Synlett* **2017**, *28(5)*, 560–564. (DOI: 10.1055/s-0036-1588915)

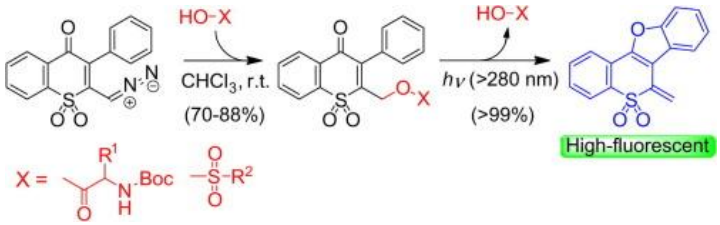


42) *Ade Arsianti, Hendry Astuty, Fadilah, Anton Bahtiar, **Hiroki Tanimoto**, Kiyomi Kakiuchi, "Design and Screening of Gallic Acid Derivatives as Inhibitors of Malarial Dihydrofolate Reductase (DHFR) By *In Silico* Docking", *Asian J. Pharm. Clin. Res.* **2017**, *10(2)*, 330–334. (DOI: 10.22159/ajpcr.2017.v10i2.15712)

41) Takuma Furusawa, **Hiroki Tanimoto**, Yasuhiro Nishiyama, *Tsumoru Morimoto, *Kiyomi Kakiuchi, "Rhodium(I)-Catalyzed Carbonylative Annulation of Iodobenzenes with Strained Olefins and 4-Octyne in the presence of Furfural Involving Ortho-C-H Bond Cleavage", *Adv. Synth. Catal.* **2017**, *359(2)*, 240–245. (DOI: 10.1002/adsc.201601056)

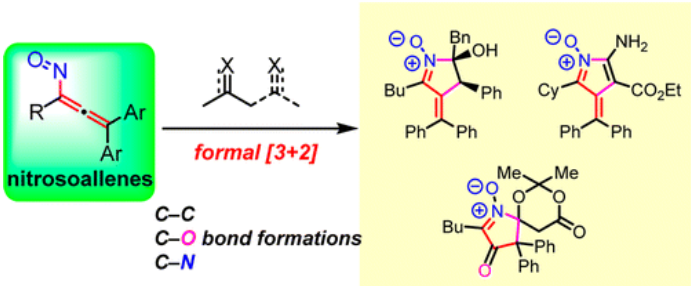


40) Youlai Zhang, *Huan Zhang, Chi Ma, Junru Li, Yasuhiro Nishiyama, **Hiroki Tanimoto**, Tsumoru Morimoto, *Kiyomi Kakiuchi, "Study of the Paternò-Büchi Type Photolabile Protecting Group and Application to Various Acids", *Tetrahedron Lett.* **2016**, *57(47)*, 5179–5184. (DOI: 10.1016/j.tetlet.2016.09.065)

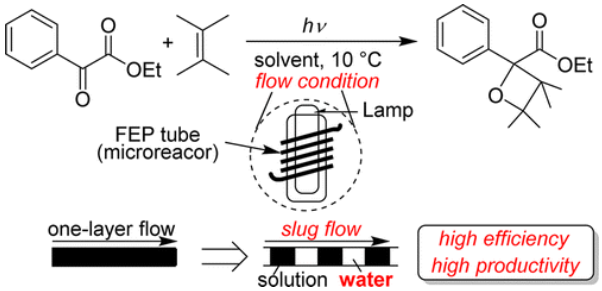


39) ***Hiroki Tanimoto**, Takashi Shitaoka, Keiichi Yokoyama, Tsumoru Morimoto, Yasuhiro Nishiyama, Kiyomi Kakiuchi, "Formal [3+2] Cycloaddition of Nitrosoallenes with Carbonyl and Nitrile Compounds to Form Functional Cyclic Nitrones", *J. Org. Chem.* **2016**, *81(19)*, 8722–8735. (DOI: 10.1021/acs.joc.6b00758) **[Altmetric score]**

• Highlighted in International Society of Heterocyclic Chemistry (ISHC) Bulletin, January, 2017

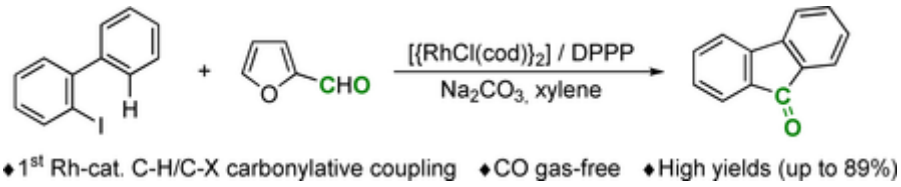


38) Momoe Nakano, *Yasuhiro Nishiyama, **Hiroki Tanimoto**, Tsumoru Morimoto, *Kiyomi Kakiuchi, "Remarkable Improvement of Organic Photoreaction Efficiency in the Flow Microreactor by the Slug Flow Condition Using Water", *Org. Process Res. Dev.* **2016**, *20(9)*, 1626–1632. (DOI: 10.1021/acs.oprd.6b00181)

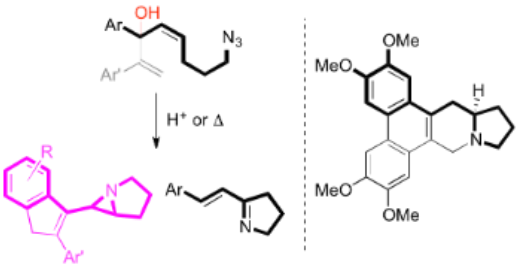


37) Takuma Furusawa, *Tsumoru Morimoto, Yasuhiro Nishiyama, **Hiroki Tanimoto**, Kiyomi Kakiuchi, "Rh(I)-Catalyzed Intramolecular Carbonylative C-H/C-I Coupling of 2-Iodobiphenyls Using Furfural as a Carbonyl Source", *Chem. Asian J.* **2016**, *11(16)*, 2312–2315. (DOI: 10.1002/asia.201600802) **[Altmetric score]**

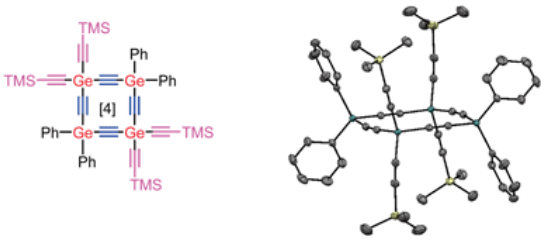
• Highlighted in *ChemInform* **2016**, *47(52)*, DOI: 10.1002/chin.201652183.



36) Taiki Yokoi, Takahiro Sugiura, ***Hiroki Tanimoto**, Tsumoru Morimoto, Yasuhiro Nishiyama, Kiyomi Kakiuchi “Approach to Phenanthroindolizidine Alkaloids Using Organic Azides with 1-Aryl Allylic Alcohols: Unexpected Tandem Reactions to Indenyl Aziridines via Nazarov Cyclization”, *Heterocycles* **2016**, *92(7)*, 1313–1327. (DOI: 10.3987/COM-16-13489)



35) ***Hiroki Tanimoto**, Tomohiko Nagao, Satomi Hosokawa, Taro Fujiwara, Yasuhiro Nishiyama, Tsumoru Morimoto, Ken Tsutsumi, Takahiro Kakuta, Kazuo Tanaka, Yoshiki Chujo, *Kiyomi Kakiuchi, “Synthesis and Characterization of Ethynylated Germa[4]pericyclyne”, *Chem. Lett.* **2016**, *45(7)*, 781–784. (Open Access) (DOI: 10.1246/cl.160332)



34) Takuma Furusawa, *Tsumoru Morimoto, Nagato Oka, **Hiroki Tanimoto**, Yasuhiro Nishiyama, Kiyomi Kakiuchi, "Pd(0)-Catalyzed CO Gas-Free Carbonylation of 2-Bromobiphenyls with Formaldehyde as a Carbonyl Surrogate through the Cleavage of a C-H Bond" *Chem. Lett.* **2016**, *45(4)*, 406–408. (Open Access) (DOI: 10.1246/cl.151182)
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- *ChemInform* **2016**, *47(42)* DOI: 10.1002/chin.201642054
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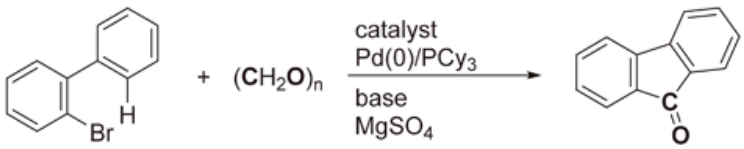

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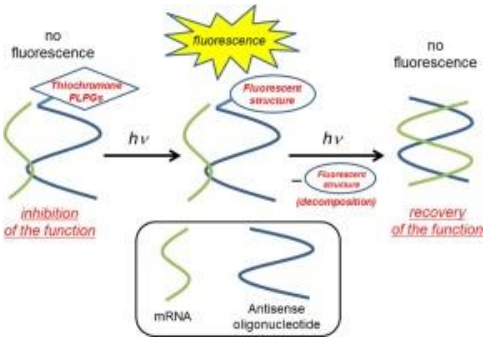

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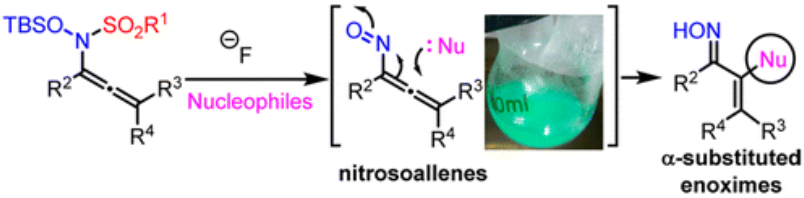

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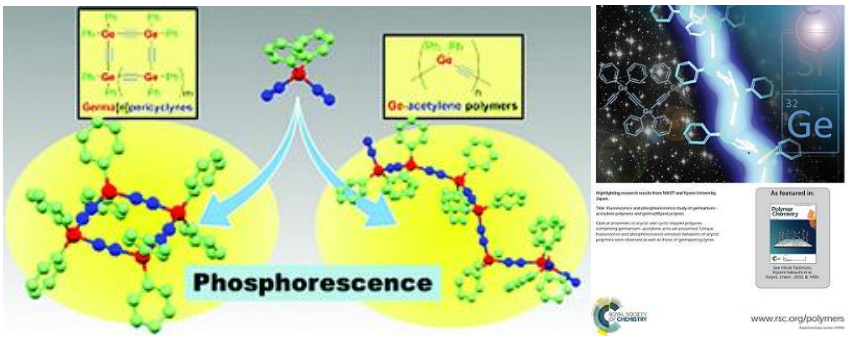

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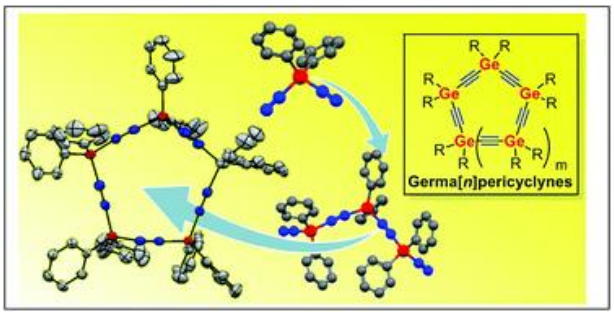

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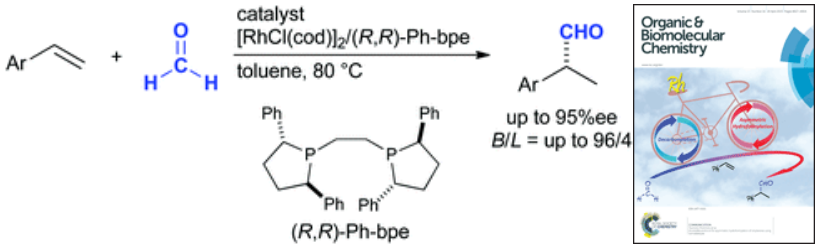

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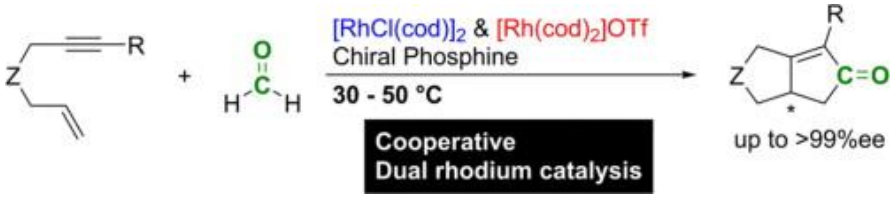

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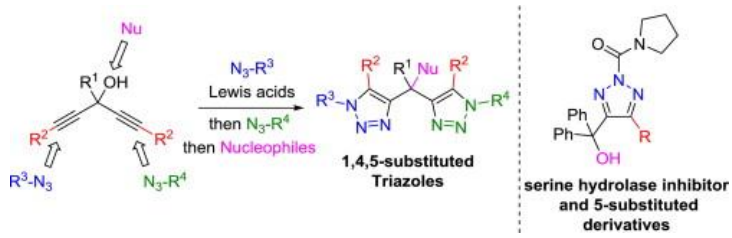

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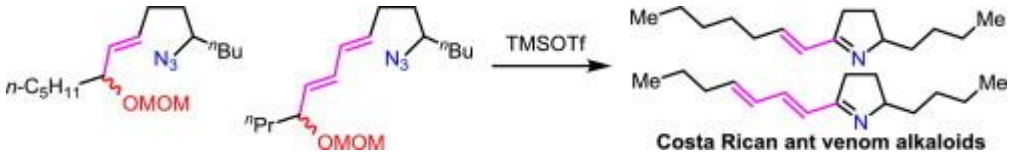

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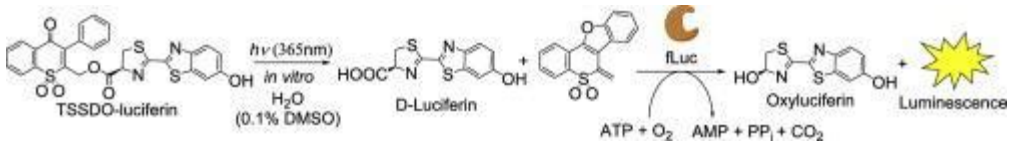

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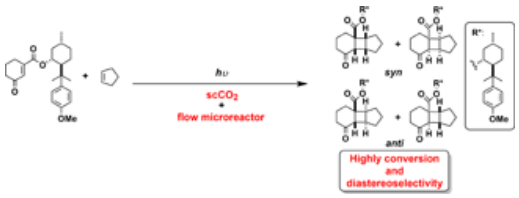

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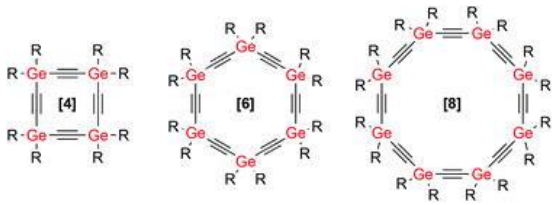

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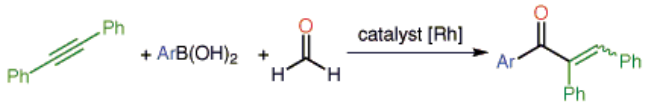

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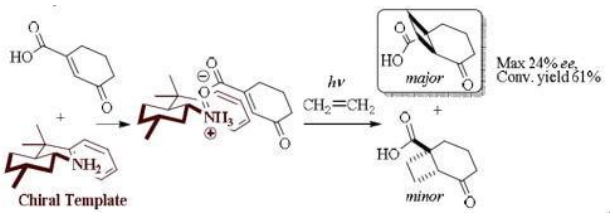

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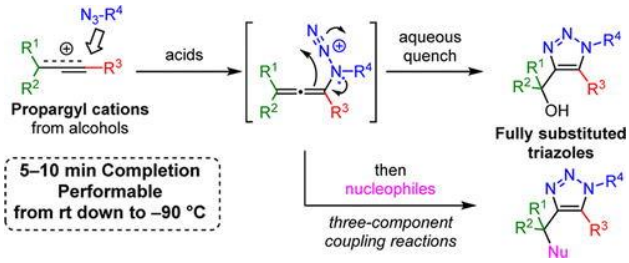

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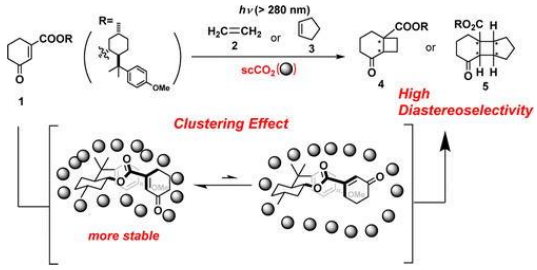

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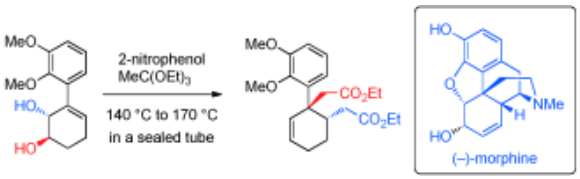

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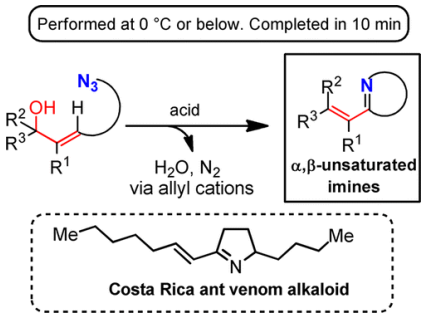

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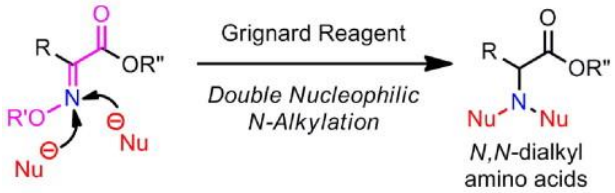

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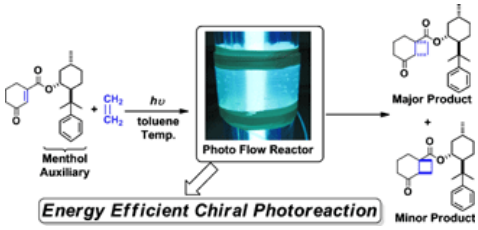

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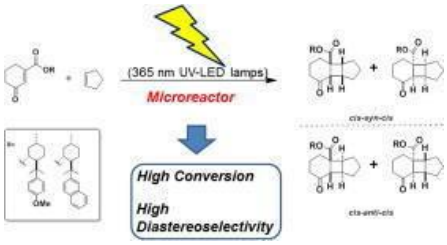

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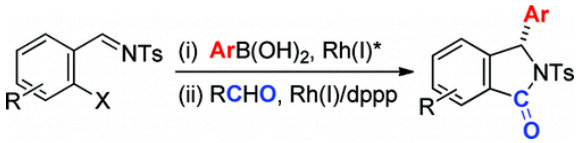

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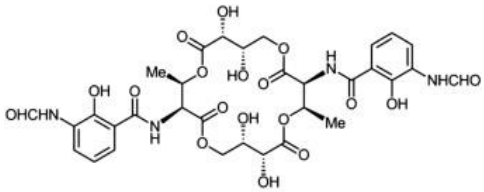

Antimycin A_3 analogue

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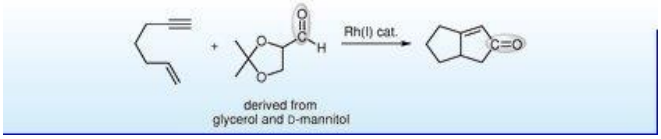

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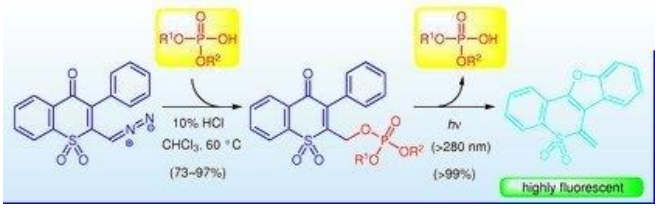

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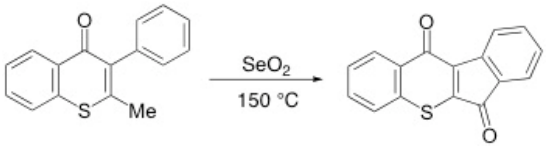

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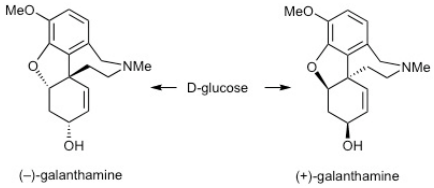

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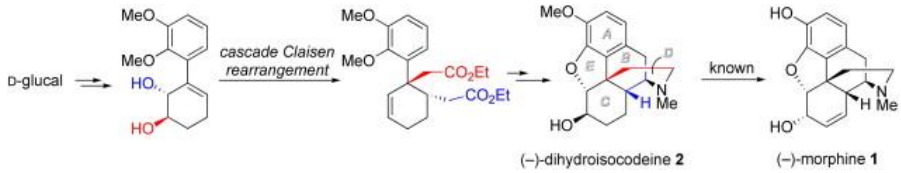
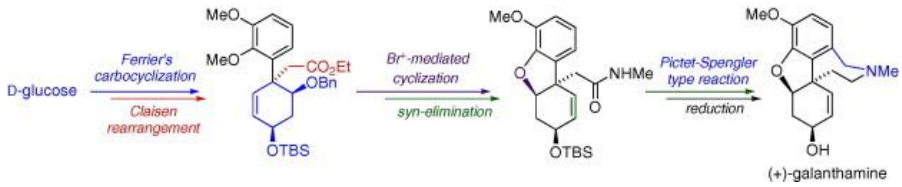
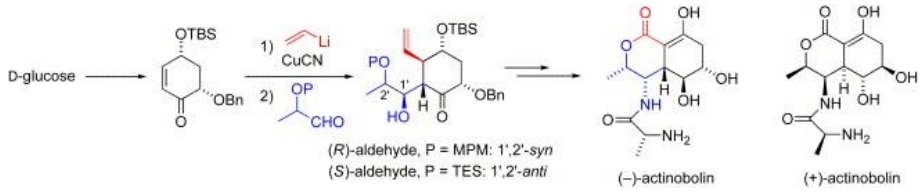


2) **Hiroki Tanimoto**, Tomoaki Kato, *Noritaka Chida, “Total Synthesis of (+)-Galanthamine Starting from **D**-Glucose” *Tetrahedron Lett.* **2007**, *48(36)*, 6267–6270. (DOI: 10.1016/j.tetlet.2007.07.042)

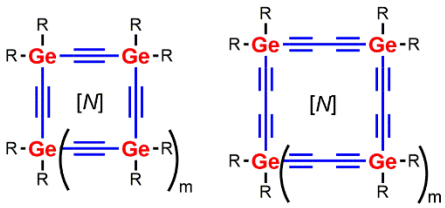


1) Satoshi Imuta, **Hiroki Tanimoto**, Miho K. Momose, *Noritaka Chida, “Total Synthesis of Actinobolin from D-Glucose by Way of the Stereoselective Three-component Coupling Reaction”, *Tetrahedron* **2006**, *62(29)*, 6926–6944. (DOI: 10.1016/j.tet.2006.04.079)



Publications (Reviews/Accounts)

3) **(総合論文)** ***谷本裕樹**, *垣内喜代三, "ゲルマニウムとアセチレンからなる環状有機ゲルマニウム元素ブロック・ゲルマ[*N*]ペリサイクリンの合成と物性", *J. Synth. Org. Chem. Jpn. (有機合成化学協会誌)* **2017**, *75(4)*, 320–329. (DOI: 10.5059/yukigoseikyokaishi.75.320)



(Extended) Germa[*N*]pericyclynes

2) ***Hiroki Tanimoto**, Kiyomi Kakiuchi, "Recent Applications and Developments of Organic Azides in Total Synthesis of Natural Products", *Nat. Prod. Commun.* **2013**, *8(7)*, 1021–1034. (invited) **[Archived in "naistar"]** (no DOI)

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1) ***Hiroki Tanimoto**, "Carbon-Carbon bond formation by way of umpolung strategy of enamine derivatives", *J. Synth. Org. Chem., Jpn. (有機合成化学協会誌)* **2011**, *69(7)*, 823–824. (DOI: 10.5059/yukigoseikyokaishi.69.823)

Publications (Contribution to magazine and journal columns)

3) **谷本裕樹**, "より早く，より赤く，より強く-赤色蛍光分子ケイ素置換フルオレセイン/ローダミン類の汎用的合成法-", 化学，化学同人, 2018年1月号(73号1巻), P69–70.

2) ***谷本裕樹**, "Organic-Inorganic Hybrid Material, *J. Synth. Org. Chem., Jpn. (有機合成化学協会誌，十字路)* **2017**, *75(4)*, 375. (DOI: 10.5059/yukigoseikyokaishi.75.375)

1) 垣内喜代三，森本積，**谷本裕樹**，西山靖浩，"ひかりエネルギー革命—グリーンフォトニクス—" (分担執筆4章4節，P69-–79)，NAISTグリーンフォトニクス研究チーム編著，化学同人,2012.

Invited Lectures or Presentations (Universities)

(5) ○**Hiroki Tanimoto**, Kwansei Gakuin University, Graduate School of Science and Technology, Hyogo, Dec/10/2014, “窒素官能基の極性に着目した合成法の開発と生物活性化合物への応用”.

(4) ○**Hiroki Tanimoto**, Universitas Muhammadiya Surakarta, Fakultas Farmasi, Surakarta, Indonesia, Jun/21/2013, “Development of New Methods and Their Applications on Natural Product chemistry”,

(3) ○**Hiroki Tanimoto**, Universitas Indonesia, Faculty of mathematics and natural sciences, department of pharmacy, Depok, Indonesia, Dec/6/2012, “Introduction of NAIST, and Our Recent Progress of New Synthetic Methods Using Nitrogen Functional Groups”.

(2) ○**Hiroki Tanimoto**, Tokyo University of Science, Faculty of Science, Department of Chemistry, Tokyo, Japan, Jul/20/2012, “窒素官能基の新しい合成的利用法：アジド―アリルアルコールの温和かつ迅速な不飽和 イミンへの変換反応、ならびにジアゾメチル基を利用した新規光解離性保護基の開発”.

(1) ○**Hiroki Tanimoto**, Universitas Indonesia, Faculty of mathematics and natural sciences, department of pharmacy, Depok, Indonesia, Oct/13/2011, “Synthetic Study Toward Anticancer Taxol and Alkaloid Based on Pericyclic Reaction Strategy”.

Invited Lectures or Presentations (Conferences/Colloquiums/Seminars)

(9) [依頼講演] ○谷本裕樹, XXXX, XXXX, 垣内喜代三, 第68回高分子討論会, 福井大学 (文京キャンパス, 福井, 福井), 2019年9月25–27日(Presentation on Sep/XXX), S1. 元素ブロック高分子材料を用いる機能性材料の開拓, 1) 元素ブロックの精密合成, 講演番号: XXXXX, “XXXXXXXXXXXXXXX (YYYYYYYYYYYYYY)”

(8) **[依頼講演]** ○谷本裕樹, 第4回NAIST-SUNBOR最先端融合セミナー, 奈良先端科学技術大学院大学 (生駒, 奈良), 2019年3月26日, “多成分の自在集積化を目指したマルチアジド分子の反応制御”

(7) **[依頼講演]** ○谷本裕樹, 横井大貴, 森淳太, 垣内喜代三, 第67回高分子討論会, 北海道大学(札幌, 北海道), 2018年9月12–14日(Presentation on Sep/13), S2: 元素ブロック高分子が拓く新しい機能物質, 2-1: 元素ブロックの精密合成, 講演番号: 2E02, “フェニレンジインとゲルマニウムよりなるりん光発光性環状分子の合成ならびに有機アジドの精密反応制御による多機能集積プラットフォームの創出 (Phosphorescent macrocycles of germaniums with phenylenediynes and versatile integration platforms of multiple function units by site-selective conversion of organic azides)”

(6) ○<u>谷本裕樹</u>, 千田憲孝教授還暦祝いシンポジウム, ラフォーレ修善寺(修善寺, 静岡), 2016年11月19–20日(Presentation on Nov/19), “有機アジドを利用した複素環合成反応”

(5) **[依頼講演]** ○<u>谷本裕樹</u>, 長尾友彦, 藤原太郎, 森淳太, 垣内喜代三, 第65回高分子討論会, 神奈川大学 (横浜, 神奈川), Sep/14–16/2016 (presentation on Nov/14), S1: 新奇機能材料創出のための無機元素活用戦略, 1-2: 無機元素の特徴を活かした高分子材料の合成, 講演番号: 1E09, “ゲルマニウムとアセチレン類からなる環状スキップポリイン、ゲルマ[*N*]ペリサイクリン類の合成と物性 (Synthesis and Characterization of Germa[*N*]pericyclynes, Cyclic Skipped Polyynes Composed of Germanium and Acetylenes)”

(4) **[Keynote Lecture]** ○**<u>Hiroki Tanimoto</u>**, 2nd International Seminar on Chemistry (ISoC 2016), Garden Palace Hotel Surabaya, Surabaya, Indonesia, Jul/26–27/2016 (presentation on Jul/27), “Novel Reactions Utilizing Reactive Nitrogen Functional Groups Toward Bioactive Molecule Synthesis”.

(3) **[Plenary Lecture]** ○**<u>Hiroki Tanimoto</u>**, Medan International Conference on Advanced Pharmaceutical Sciences (MICAPS 2014), Garuda Plaza Hotel Medan, Medan, Indonesia, Nov/3–4/2014 (Presentation on Nov/3), “Allyl/Propargyl Cations Provide New Synthetic Methods Toward Bioactive Molecules”.

(2) ○**<u>Hiroki Tanimoto</u>**, The 3rd International Conference on Pharmacy and Advanced Pharmaceutical Sciences (ICPAPS 2013), Sheraton Mustika Yogyakarta Resort and Spa, Yogyakarta, Indonesia, Jun/18–19/2013 (presentation on Jun/19), “Azides and Alkenes/Alkynes: New Methods and Their Applications on Natural Product chemistry”.

(1) ○**<u>Hiroki Tanimoto</u>**, International Seminar on Translational Research in Cancer Chemoprevention, Graha Widya Bhakti, Gedung Dewan Riset Nasional (DRN), Tangerang Seratang, Indonesia, Oct/11–12/2011 (presentation on Oct/12), “Synthetic Study Toward Anticancer Taxol and Alkaloid Based on Pericyclic Reaction Strategy”.

<u>Lectures or Presentations</u> (Exhibition/Seminars for/at Companies)

(1) ○<u>谷本裕樹</u>, Bio Tech 2018 (第17回バイオ・ライフサイエンス研究展), 東京ビックサイト東7ホール (江東区, 東京), 2018年6月27–29日 (Presentation on Jun/27), ACA-2 (がん, 医薬・診断薬シーズ コース, E-A003 (12:00-12:30), “抗炎症、抗腫瘍活性を志向した有機ケイ素・ゲルマニウム医薬シーズの開発” (ポスターおよび口頭発表)

Presentations

(Oral, International conferences)

(5) ○**Hiroki Tanimoto**, Taiki Yokoi, Tomomi Ueda, Kiyomi Kakiuchi, "Site-selective Conversion of Azido Groups to α-Diazo/Hydroxyimino (Oxime) Groups in Multiple Azido Compounds" (5 min flash presentation associated with poster presentation), 22nd International Conference on Organic Synthesis (ICOS-22), FLP12, Palazzo dei Congressi, Florence, Italy, Sep/16-21/2018 (Presentation on Sep/19/2018)

(4) ○**Hiroki Tanimoto**, Junta Mori, Taro Fujiwara, Shunichiro Ito, Kazuo Tanaka, Yoshiki Chujo, Kiyomi Kakiuchi, "Extended Germa[*N*]pericyclynes: Synthesis and Optical Properties", The 18th International Symposium on Silicon Chemistry (ISOS XVIII) in Conjugation with 6th Asian Silicon Symposium (ASiS-6), SL-54, Shandong Hotel (山东大厦), Ji'nan (济南), China, Aug/6–11/2017 (Presentation on Aug/10/2017)

(3) ○**Hiroki Tanimoto**, Keiichi Yokoyama, Takashi Shitaoka, Sho Ueda, Yusuke Mizutani, Kiyomi Kakiuchi, "NITROSOALLENES: REACTIVITY AND APPLICATIONS TO HETEROCYCLES SYNTHESIS", 27th European Colloquium on Heterocyclic Chemistry (ECHC 2016), 2. Heterocyclic Synthetic Methodology: OC04, Beurs van Berlage, Amsterdam, The Netherlands, Jul/3–6/2016 (Presentation on Jul/4/2016)

(2) ○**Hiroki Tanimoto**, Tomohiko Nagao, Taro Fujiwara, Kazuo Tanaka, Takahiro Kakuta, Yoshiki Chujo, Kiyomi Kakiuchi, "Synthesis and optical properties of cyclic and acyclic poly(germylene-ethynylene) materials", The International Chemical Congress of Pacific Basin Societies (Pacifichem) 2015, (3) Macromolecular(#221): 256, Hawaii Convention Center, Honolulu, HI, The United States, Dec/15–20/2015 (Presentation on Dec/16/2015)

(1) ○Ade Arsianti, **Hiroki Tanimoto**, Tsumoru Morimoto, Kiyomi Kakiuchi, "Synthesis and Anticancer Activity of Antimycin A3 Analogue", The 2nd International Conference on Pharmacy and Advanced Pharmaceutical Science (ICPAPS), Yogyakarta, Indonesia, Jul/2011 [**the first winner for oral presentation**]

(Poster, International conferences)

(28) ○**Hiroki Tanimoto**, Daiki Tomori and Kiyomi Kakiuchi, "Toward Bioactive Organogermanium Compounds: Synthesis of Germanium Dicarboxylic Acid and Hypercoodinate Dilactone", The 16th International Conference on the Coordination and Organometallic Chemistry of Germanium, Tin and Lead (ICCOC-GTL-16), Poster number:

XXXX, Saitama University, Saitama, Japan, Sep/1–6/2019 (Presentation on Sep/XX/2019).

(27) ○**Hiroki Tanimoto**, Taiki Yokoi, Tomomi Ueda, Kiyomi Kakiuchi, "Site-selective Conversion of Azido Groups at Carbonyl α-Positions to Other Clickable Functional Groups in Di- and Triazido Compounds", The 14th International Kyoto Conference on New Aspects of Organic Chemistry(IKCOC-14), Poster number: PA(C)-04, Rihga Royal Hotel Kyoto, Kyoto, Nov/12–16/2018 (Presentation on Nov/13/2018)

(26) ○**Hiroki Tanimoto**, Daiki Tomori, Junta Mori, Kiyomi Kakiuchi, "Synthesis of Cyclic Organogermanium Materials: Arene-inserted Extended Germa[*N*]pericyclynes and Hypercoordinate Germanium Dilactone", International Symposium on Main Group Chemistry Directed towards Organic Synthesis (MACOS), P-43, Science Seminar House at Kyoto University, Kyoto, Japan, Aug/25/2018.

(25) ○Ade Arsianti, Fadilah, Anton Bahtiar, Hiroki Tanimoto, Kiyomi Kakiuchi, "Phytochemical Analysis and In Vitro Cytotoxicity of Seaweed *Sargassum sp*. Against Colon HCT-116 and Lung A-549 Cancer Cells", 18th World Congress of Basic and Clinical Pharmacology (WCP2018), PO1-9-12, Kyoto International Conference Center, Kyoto, Japan, Jul/1–6/2018 (Presentation on Jul/2/2018).

(24) ○Taiki Yokoi, Tomomi Ueda, **Hiroki Tanimoto**, Kiyomi Kakiuchi, "Regioselective Transformation of Azido to Diazo Group", 26th International Society of Heterocyclic Chemistry (ISHC) Congress, WED-P48, University of Regensburg, Regensburg, Germany, Sep/3–8/2017 (Presentation on Sep/6/2017).

(23) ○**Hiroki Tanimoto**, Sho Ueda, Takashi Shitaoka, Keiichi Yokoyama, Kiyomi Kakiuchi, "Nitrosoallenes: Inter- and Intramolecular Reaction for Heterocycles Synthesis by Their Strong Reactivities", 26th International Society of Heterocyclic Chemistry (ISHC) Congress, WED-P136, University of Regensburg, Regensburg, Germany, Sep/3–8/2017 (Presentation on Sep/6/2017).

(22) ○**Hiroki Tanimoto**, Junta Mori, Taro Fujiwara, Kiyomi Kakiuchi, "Synthesis and Characterization of π-Extended Germa[*N*]pericyclynes of Cyclic Germylene-ethynylene Element-block Materials", The 2nd International Symposium on Polymeric Materials Based on Element-Blocks, P-4, Kyoto Institute of Technology, Kyoto, Japan, Jan/18–19/2017 (Presentation on Jan/18/2017).

(21) ○**Hiroki Tanimoto**, Tomohiko Nagao, Taro Fujiwara, Junta Mori, Takahiro Kakuta, Kazuo

Tanaka, Yoshiki Chujo, Kiyomi Kakiuchi, “GERMA[N]PERICYCLYNES: SYNTHESIS, CHARACTERIZATION AND OPTICAL PROPERTIES OF GERMANIUM-ALKYNE MATERIALS”, 27th European Colloquium on Heterocyclic Chemistry (ECHC 2016), Poster number: 2. Heterocyclic Synthetic Methodology: P139, Beurs van Berlage, Amsterdam, The Netherlands, Jul/3–6/2016 (Presentation on Jul/4/2016).

(20) ○**Hiroki Tanimoto**, Junta Mori, Taro Fujiwara, Tomohiko Nagao, Kiyomi Kakiuchi, “Germa[*N*]pericyclynes of 2D-Germylene-Ethynylene Polymers”, The 2nd International Symposium on Synthetic Two-Dimensional Polymers (S2DP-2), Poster number: PP-07, Todaiji Temple Cultural Center, Nara, Japan, Jun/2–4/2016 (Presentation on Jun/3/2016)

(19) ○Ade Arsianti, Fadilah, Surya Dwira, Dadan Ramadhan Apriyanto, Anton Bahtiar, Akmal Primadian Suprapto, **Hiroki Tanimoto**, Kiyomi Kakiuchi, “Synthesis, In Silico Study, and In vitro Evaluation of Gallic Acid Derivatives (Galloyl-Threonine-Allyl Esters) as Potential AntiviralAgents of Hepatitis C”, The 6th International Conference on Natural Products for Health and Beauty (NATPRO6), Poster number: P87, Khon Kaen, Thailand, Jan/21-23/2016 (Presentation of Jan/21/2016)

(18) ○**Hiroki Tanimoto**, Keiichi Yokoyama, Takashi Shitaoka, Yusuke Mizutani, Kiyomi Kakiuchi, “Nitrosoallenes: New reactive species for umpolung functionalization and heterocycles synthesis”, The International Chemical Congress of Pacific Basin Societies (Pacifichem) 2015, Poster number: (4) Organic(#79):778, Hawaii Convention Center, Honolulu, HI, The United States, Dec/15–20/2015 (Presentation on Dec/16/2015)

(17) ○Yusuke Mizutani, **Hiroki Tanimoto**, Kiyomi Kakiuchi, “Development of umpolung functionalizations using nitrogen functional groups”, The International Chemical Congress of Pacific Basin Societies (Pacifichem) 2015, Poster number: (4) Organic: 527, Hawaii Convention Center, Honolulu, HI, The United States, Dec/15–20/2015 (Presentation on Dec/16/2015)

(16) ○**Hiroki Tanimoto**, Keiichi Yokoyama, Takashi Shitaoka, Yusuke Mizutani, Kiyomi Kakiuchi, “Study of Nitrosoallenes: Nucleophilic α-Functionalization of Enoximes and Cycloaddition Reactions Producing Cyclic Nitrones”, The 13rd International Kyoto Conference on New Aspects of Organic Chemistry(IKCOC-13), Poster number: PC(C)-02, Rihga Royal Hotel Kyoto, Kyoto, Japan, Nov/9–13/2015 (Presentation on Nov/12/2015)

(15) ○Tomohiko Nagao, **Tanimoto Hiroki**, Kakiuchi Kiyomi, “Synthesis and Characterization

of Cyclic Germane-Acetylene Compounds, Germa[n]pericyclynes", GIST/NAIST/NCTU Joint Symposium on Advanced Materials, Poster number: P-1, Gwangju Institute of Science and Technology (GIST), Gwangju (光州), Korea, Nov/24-29/2014 (Presentation on Nov/24/2014)

(14) ○**Hiroki Tanimoto**, Huan Zhang, Kyohei Hayashi, Kiyomi Kakiuchi, "Novel Reactions of Organic Azides with Allyl/Propargyl Cations and Their Applications to Synthesis of Bioactive Compounds", 15th Tetrahedron Symposium- Asia Edition, Poster number: P1.54, Singapore EXPO Convention and Exhibition Centre, Singapore, Oct/28–31/2014 (Presentation on Oct/28–29/2014)

(13) **Hiroki Tanimoto,** Tomohiko Nagao, Yasuhiro Nishiyama, Tsumoru Morimoto, ○Kiyomi Kakiuchi, "Synthesis and Characterization of Germa[*n*]pericyclynes", International Symposium on Polymeric Materials Based on Element-Blocks, Poster number: P-11, 60th Anniversary Hall, Kyoto Institute of Technology, Kyoto, May/31/2014

(12) ○Huan Zhang, **Hiroki Tanimoto**, Tsumoru Morimoto, Yasuhiro Nishiyama, Kiyomi Kakiuchi, "Development of Carbocation Mediated Azide-Alkyne Cyclization Reactions", International Symposium on Catalysis and Fine Chemicals 2013 (C&FC 2013), Poster number: OPP-10 , Renmin University, Beijing, China, Dec 1-5, 2013, 118 (Short Talk and Poster Presentation OPP-10; Presentation on Dec/3/2013).

(11) ○**Hiroki Tanimoto**, Huan Zhang, Kiyomi kakiuchi, "Propargyl Cation-Promoted Azide-Alkyne Cycloadditions", 8th International Symposium on Integrated Synthesis (ISIS-8), Poster number: P-57, Todaiji Temple Cultural Center, Nara, Nov/29–Dec/1/2013 (Presentation on Nov/30/2013)

(10) ○**Hiroki Tanimoto**, Yusuke mizutani, Kiyomi Kakiuchi, "Synthetic Approach of α-substituted Carbonyl compounds by way of Umpolung", 10th International Symposium on Carbanion Chemistry (ISCC-10), Poster number: P-17, Kanbaikan at Doshisha University, Kyoto, Sep/23–26/2013 (Presentation on Sep/24/2013)

(9) Ade Arsianti, ○Fadilah, Kusmardi, **Hiroki Tanimoto**, Tsumoru Morimoto, Kiyomi Kakiuchi, "Design and Screening of Novel Antimycin A3 Analogues as Anti-Breast Cancer Agents by Docking Approach", PP001, The 3rd International Conference on Pharmacy and Advanced Pharmaceutical Sciences (ICPAPS 2013), Sheraton Mustika Yogyakarta Resort and Spa, Yogyakarta, Indonesia, Jun/18–19/2013 (presentation of Jun/18/2013)

(8) ○Yusuke Mizutani, **Hiroki Tanimoto**, Tsumoru Morimoto, Yasuhiro Nishiyama, Kiyomi

Kakiuchi, “Development of Electrophilic Amination with α-Oxime-esters”, GIST-NAIST-NCTU International Exchange Program 2012, NCTU, Taipei, Taiwan, Nov/17–22/2012 (Presentation on Nov/20/2012)

(7) ○**Hiroki Tanimoto**, Kyohei Hayashi, Huan Zhang, Tsumoru Morimoto, Yasuhiro Nishiyama, Kiyomi Kakiuchi, “Carbocation-promoted Intramolecular Azide-Olefin Cycloaddition: Efficient Synthesis of α,β-Unsaturated Imines and alkaloid”, The 12th International Kyoto Conferenceon New Aspects of Organic Chemistry (IKCOC-12), Poster number: PB009, Rihga Royal Hotel Kyoto, Kyoto, Nov/12–16/2012 (Presentation on Nov/14/2012).

(6) ○**Hiroki Tanimoto**, Kyohei Hayashi, Huan Zhang, Tsumoru Morimoto, Yasuhiro Nishiyama, Kiyomi Kakiuchi, “Carbocation-promoted Intramolecular [3+2] Azide-Olefin Cycloaddition: Synthesis of Unsaturated Imines and Iminium Alkaloid”,19th International Conference on Organic Synthesis in conjunction with The 24th Royal Australian Chemical Institute Organic Conference (ICOS-19), Poster number: 217, Melbourne Convention Centre, Melbourne, Australia, Jul/1–6/2012 (Presentation on Jul/3–4/2012).

(5) ○Huan Zhang, **Hiroki Tanimoto**, Yasuhiro Nishiyama, Tsumoru Morimoto,Kiyomi kakiuchi, “Synthesis of α-substituted α,β-unsaturated imine from propargyl alcohol and azide”,19th International Conference on Organic Synthesis in conjunction with The 24th Royal Australian Chemical Institute Organic Conference (ICOS-19), Poster number: 243, Melbourne Convention Centre, Melbourne, Australia, Jul/1–6/2012 (Presentation on Jul/3–4/2012).

(4) ○Ade Arsianti, Fadilah, **Hiroki Tanimoto**,Tsumoru Morimoto, Kiyomi Kakiuchi, “Synthesis of Novel Analogues of Antimycin A3 as a Growth Inhibitors of Human Colorectal Cancer Cells Based on Molecular Docking Assessment”, International Seminar on Translational Research in Cancer Chemoprevention (ISTRCC), Serpong, Indonesia, Oct/11–12/2011 (Presentation on Oct/12/2011)

(3) ○Kyohei Hayashi, **Hiroki Tanimoto**, Huan Zhang, Noritaka Chida, Tsumoru Morimoto, and Kiyomi Kakiuchi “*N*-Heterocycle Synethesis by way of Intramolecular Azide-Olefin Cycloaddition: New Approach to α,β-Unsaturated Imines”, The Seventh International Symposium on Integrated Synthesis (ISIS-7), Poster number: P60, Seaside Hotel Maiko Villa, Kobe, Japan, Oct/9–10/2011 (Presentation on Oct/10/2011)

(2) ○**Hiroki Tanimoto**, Ryosuke Saito, Shohei Miwa, Takaaki Saito, Kiyomi Kakiuchi,

Noritaka Chida, “Formal total synthesis of (-)-morphine based on cascade Claisen rearrangement”, The international chemical congress of Pacific basin society (Pacifichem) 2010, Poster number: #2129, Kamehameha Halls II and III (Hawaii Convention Center), Honolulu, HI, The United States, Dec/15–20/2010 (Presentation on Dec/19/2010).

(1) ○**Hiroki Tanimoto**, Noritaka Chida, “Synthetic study toward (-)-morphine utilizing cascade type Claisen rearrangement”, ICOB-5 & ISCNP-25 IUPAC International conference on bioactivity and natural products, Poster number: P-149, Kyoto international conference center, Japan, Jul/23–28/2006 (Presentation on Jul/24/2006).

(Oral, Domestic conferences)

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