

# Curriculum Vitae

## Personal Information

Name: Nobuya Tsuji  
Date of Birth: February 7th, 1989  
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## Education

2012. 03 **B. Sc.** Department of Pharmaceutical Sciences, Kyoto University,  
Japan (Prof. Yoshiji Takemoto)  
2014. 03 **M. Sc.** Graduate School of Pharmaceutical Science, Kyoto University,  
Japan (Prof. Yoshiji Takemoto)  
2018. 09 **Ph. D.** Max-Planck-Institut für Kohlenforschung, Germany (Prof.  
Benjamin List)

## Academic Career

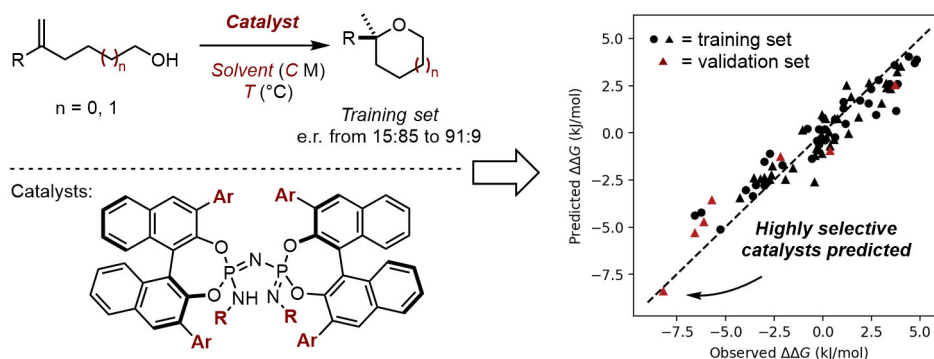
2018. 10 – 2019. 02 **Postdoc** (interim), Max-Planck-Institut für Kohlenforschung, Germany  
(Prof. Benjamin List)  
2019. 03 – 2019. 12 **Postdoc**, Department of Chemistry, University of California, Berkeley  
(Prof. Omar M. Yaghi)  
2020. 01 – present **Specially Appointed Assistant Professor (Co-PI)**, Institute for  
Chemical Reaction Design and Discovery (WPI-ICReDD), Hokkaido  
University (Prof. Benjamin List)

## Fellowships & Grants

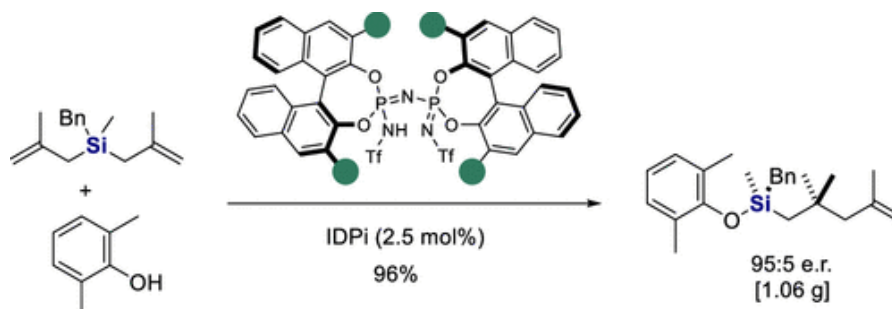
2014. 09 – 2019. 02 Funded by International Max Planck Research Schools (IMPRS)  
2019. 03 – 2019. 12 Uehara Memorial Foundation Postdoctoral Fellowship  
2020. 09 – 2022. 03 JSPS Grant-in-Aid for Research Activity Start-up (20K22515)  
2022. 04 – present JSPS Grant-in-Aid for Young Scientists (22K14672)

## Publications

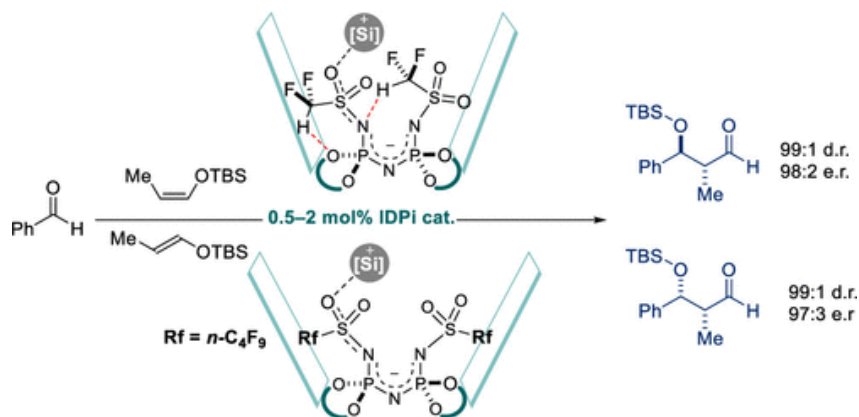
1. **Nobuya Tsuji**<sup>†\*</sup>, Pavel Sidorov<sup>†\*</sup>, Chendan Zhu, Yuuya Nagata, Timur Gimadiev, Alexandre Varnek<sup>\*</sup>, Benjamin List<sup>\*</sup>  
“Predicting Highly Enantioselective Catalysts Using Tunable Fragment Descriptors”  
*ChemRxiv*, (2022) DOI: 10.26434/chemrxiv-2022-bsmdl



2. Hui Zhou, Jung Tae Han, Nils Nöthling, Monika M. Lindner, Judith Jenniches, Clemens Kühn, **Nobuya Tsuji**, Li Zhang, and Benjamin List<sup>\*</sup>  
“Organocatalytic Asymmetric Synthesis of Si-Stereogenic Silyl Ethers”  
*J. Am. Chem. Soc.*, 144, 10156–10161 (2022).



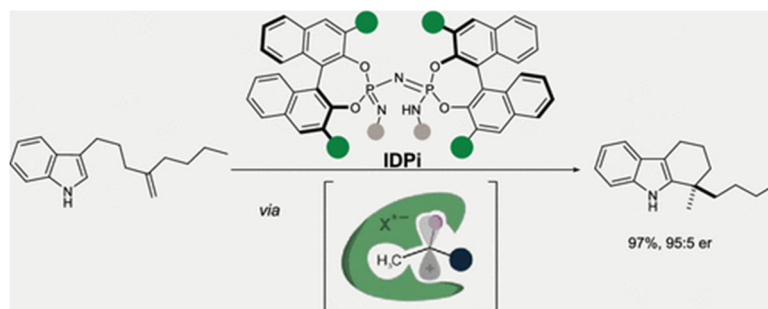
3. Tynchtyk Amatov, **Nobuya Tsuji**, Rajat Maji, Lucas Schreyer, Hui Zhou, Markus Leutzsch, and Benjamin List<sup>\*</sup>  
“Confinement-Controlled, Either *syn*- or *anti*-Selective Catalytic Asymmetric Mukaiyama Aldolizations of Propionaldehyde Enolsilanes”  
*J. Am. Chem. Soc.*, 143, 14475–14481 (2021).



4. Pinglu Zhang, **Nobuya Tsuji**, Jie Ouyang, and Benjamin List<sup>\*</sup>

“Strong and Confined Acids Catalyze Asymmetric Intramolecular Hydroarylations of Unactivated Olefins with Indoles”

*J. Am. Chem. Soc.*, 143, 675–680 (2021).

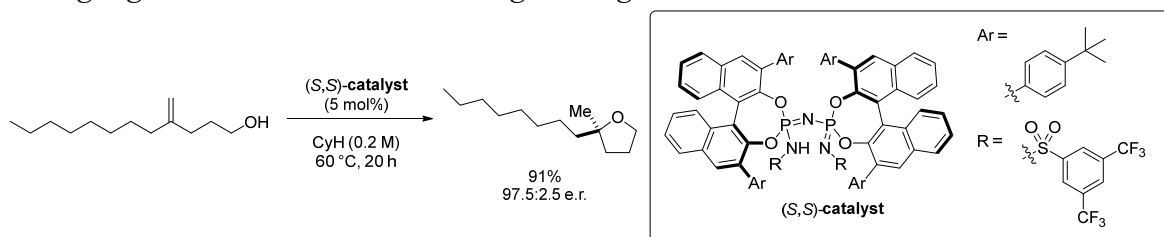


5. **Nobuya Tsuji**, Jennifer L. Kennemur, Thomas Buyck, Sunggi Lee, Sébastien Prévost, Philip S. J. Kaib, Dmytro Bykov, Christophe Farès and Benjamin List\*

“Activation of olefins via asymmetric Brønsted acid catalysis”

*Science*, 359, 1501–1505 (2018).

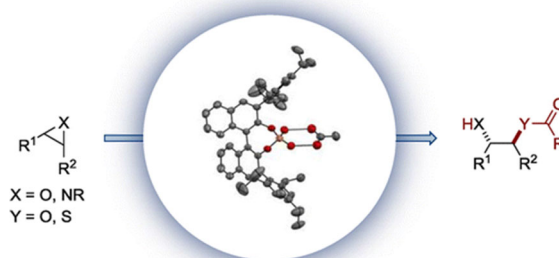
Highlighted on *ACS Chemical & Engineering News*



6. Mattia Riccardo Monaco, Daniele Fazzi, **Nobuya Tsuji**, Marcus Leutzsch, Saihu Liao, Walter Thiel and Benjamin List\*

“Self-Assembly Asymmetric Organocatalysis: A Combined Experimental and Computational Investigation”

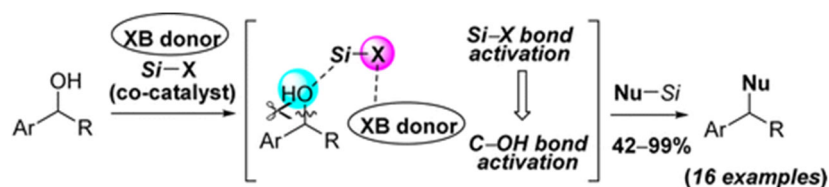
*J. Am. Chem. Soc.*, 138, 14740–14749 (2016).



7. Masato Saito, **Nobuya Tsuji**, Yusuke Kobayashi and Yoshiji Takemoto\*

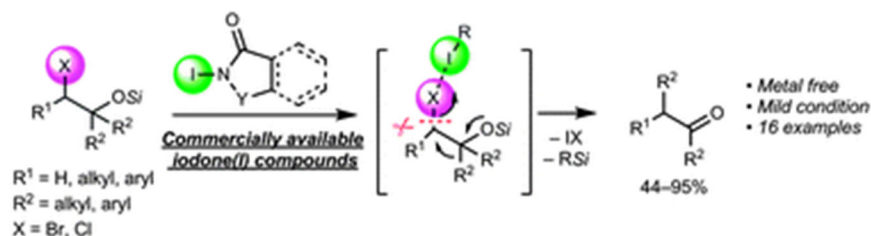
“Direct Dehydroxylative Coupling Reaction of Alcohols with Organosilanes through Si–X Bond Activation by Halogen Bonding”

*Org. Lett.*, 17, 3000–3003 (2015).



8. **Nobuya Tsuji**, Yusuke Kobayashi and Yoshiji Takemoto\*  
 “Electrophilic iodine(I) compounds induced semipinacol rearrangement via C–X bond cleavage”

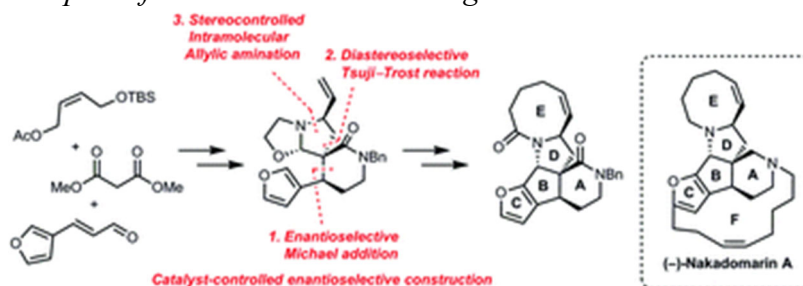
*Chem. Commun.*, 50, 13691–13694 (2014).



9. **Nobuya Tsuji**, Yusuke Kobayashi and Yoshiji Takemoto\*  
 “Catalytic asymmetric synthesis of the pentacyclic core of (–)-Nakadomarin A via oxazolidine as an iminium cation equivalent”

*Org. Biomol. Chem.*, 12, 7919–7922 (2014).

*This article is a part of 2014 Hot Articles in Organic and Biomolecular Chemistry.*



## Presentations

- “Predicting Highly Enantioselective Catalysts Using Tunable Fragment Descriptors”  
**Nobuya Tsuji**<sup>†\*</sup>, Pavel Sidorov<sup>†\*</sup>, Chendan Zhu, Yuuya Nagata, Timur Gimadiev, Alexandre Varnek\*, Benjamin List\*  
 Joint Symposium of the Faculty of Pharmaceutical Sciences & WPI-ICReDD in Hokkaido University (September 2022; online, oral)
- “Activation of Olefins via Asymmetric Brønsted Acid Catalysis”  
**Nobuya Tsuji**, Jennifer L. Kennemur, Thomas Buyck, Sunggi Lee, Sébastien Prévost, Philip S. J. Kaib, Dmytro Bykov, Christophe Farès and Benjamin List  
 16th Belgian Organic Synthesis Symposium (July 2018; Brussels, Belgium, poster)
- “Activation of Olefins via Asymmetric Brønsted Acid Catalysis”  
**Nobuya Tsuji**, Jennifer L. Kennemur, Thomas Buyck, Sunggi Lee, Sébastien Prévost, Philip S. J. Kaib, Dmytro Bykov, Christophe Farès and Benjamin List  
 The 9th Münster Symposium on Cooperative Effects in Chemistry (March 2018; Münster, Germany, poster)

## References

### **1. Prof. Dr. Benjamin List**

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### **2. Prof. Dr. Omar M. Yaghi**

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### **3. Prof. Dr. Yoshiji Takemoto**

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