Jinghan Gui

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Date/Place of Birth: 30 June, 1987 / Xuancheng, Anhui, China
Gender: Male

Education and Working Experience

2016.3 – present **Professor**
CAS Key Laboratory of Synthetic Chemistry of Natural Substances
Shanghai Institute of Organic Chemistry, CAS, Shanghai, China

2013.2 – 2016.3 **Postdoctoral Associate**
The Scripps Research Institute, La Jolla, California, United States
Advisor: Prof. Phil S. Baran

2012.7 – 2013.2 **Research Associate**
Shanghai Institute of Organic Chemistry, CAS, Shanghai, China
Advisor: Prof. Weisheng Tian

2007.9 – 2012.7 **Ph.D. Graduate Student in Oganic Chemistry**
Shanghai Institute of Organic Chemistry, CAS, Shanghai, China
Advisor: Prof. Weisheng Tian

2003.11 – 2007.7 **B.S. Degree in Chemistry**
Anhui Normal University, Wuhu, Anhui, China
Advisor: Prof. Yimin Hu

Honors and Awards

- 2021, Shanghai Science & Technology 35 Under 35 Award
- 2020, Chinese Chemical Society Youth Chemistry Award
- 2020, EurJOC Lecture Award
- 2020, Chinese Chemical Society Jingqing Emerging Chemistry Award
- 2019, Thieme Chemistry Journals Award
- 2012, Zhuliyuehua Outstanding Doctoral Award, Chinese Academy of Sciences
- 2012, Eli Lilly Asia Outstanding Graduate Thesis Award (2^{nd} place)

Publications

1. Xinghui Li, Zeliang Zhang, Huafang Fan, Yinlong Miao, Hailong Tian, Yucheng Gu, and Jinghan Gui,* Concise Synthesis of 9,11-Secosteroids Pinnigorgiols B and E. *J. Am. Chem. Soc.* **2021**, *143*, 4886–4890.

2. Yuhan Ning, Hailong Tian, and Jinghan Gui,* Biogenesis-Guided Synthesis and Structural Revision of Sarocladione Enabled by Ruthenium-Catalyzed Endoperoxide Fragmentation. *Angew. Chem. Int. Ed.* **2021**, 60, 11222–11226 (VIP).

3. Yu Wang, Bo Chen, Xubiao He, and Jinghan Gui,* Development of Biomimetic Synthesis of Propindilactone G. *Chin. J. Chem.* **2020**, *38*, 1339–1352.

4. Yu Wang, Bo Chen, Xubiao He, and Jinghan Gui,* Bioinspired Synthesis of Nortriterpenoid Propindilactone G. *J. Am. Chem. Soc.* **2020**, *142*, 5007–5012.

5. Jiachen Deng, Yuhan Ning, Hailong Tian, and Jinghan Gui,* Divergent Synthesis of Antiviral Diterpenes Wickerols A and B. *J. Am. Chem. Soc.* **2020**, *142*, 4690–4695.

6. Jiajing Bao, Hailong Tian, Peicheng Yang, Jiachen Deng, and Jinghan Gui,* Modular Synthesis of Functionalized Butenolides by Oxidative Furan Fragmentation. *Eur. J. Org. Chem.* **2020**, 339–347.

7. Yu Wang, Wei Ju, Hailong Tian, Suyun Sun, Xinghui Li, Weisheng Tian, and Jinghan Gui,* Facile Access to Bridged Ring Systems via Point-to-Planar Chirality Transfer: Unified Synthesis of Ten Cyclocitrinols. *J. Am. Chem. Soc.* **2019**, *141*, 5021–5033.

8. Jiachen Deng and Jinghan Gui,* Alkyne-Forming Furan Fragmentation: A General Method to Convert Furans into Alkynoic Acids. *Synlett*, **2019**, *30*, 642–646.

9. Yu Wang, Wei Ju, Hailong Tian, Weisheng Tian and Jinghan Gui,* Scalable Synthesis of Cyclocitrinol. *J. Am. Chem. Soc.* **2018**, *140*, 9413–9417.

10. Jiachen Deng, Jingjing Wu, Hailong Tian, Jiajing Bao, Yong Shi, Weisheng Tian* and Jinghan Gui,* Alkynes From Furans: A General Fragmentation Method Applied to the Synthesis of the Proposed Structure of Aglatomin B. *Angew. Chem. Int. Ed.* **2018,** *57*, 3617–3621.

11. Julian C. Lo, Dongyoung Kim, Chung-Mao Pan, Jacob T. Edwards, Yuki Yabe, Jinghan Gui, Tian Qin, Sara Gutierrez, Jessica Giacoboni, Myles W. Smith, Patrick L. Holland and Phil S. Baran,* Fe-Catalyzed C-C Bond Construction from Olefins via Radicals. *J. Am. Chem. Soc.* **2017,** *139*, 2484–2503.

12. Jinghan Gui, Chung-Mao Pan, Ying Jin, Tian Qin, Julian C. Lo, Bryan J. Lee, Steven H. Spergel, Michael E. Mertzman, William J. Pitts, Thomas E. La Cruz, Michael A. Schmidt, Nitin Darvatkar, Swaminathan R. Natarajan, Phil S. Baran,* Practical Olefin Hydroamination with Nitroarenes. *Science* **2015**, 348, 886–891.

13. Julian C. Lo, Jinghan Gui, Yuki Yabe, Chung-Mao Pan, Phil S. Baran,* Functionalized Olefin Cross-Coupling to Construct Carbon-Carbon Bonds. *Nature* **2014**, *516*, 343–348.

14. Jinghan Gui, Qianghui Zhou, Chung-Mao Pan, Yuki Yabe, Aaron C. Burns, Michael R. Collins, Martha A. Ornelas, Yoshihiro Ishihara, Phil S. Baran,* C-H Methylation of Heteroarenes Inspired by Radical SAM Methyl Transferase. *J. Am. Chem. Soc.* **2014,** *136*, 4853–4856.

15. Jinghan Gui,* Yun Wang, Hailong Tian, Yuqi Gao, Weisheng Tian,* Perfluoroalkylsulfonyl Fluoride-Mediated Abnormal Beckmann Rearrangement of Steroid 17-Oximes with Acid-Labile Groups. *Tetrahedron Lett.* **2014,** *55*, 4233–4235.

16. Qianghui Zhou, Jinghan Gui, Chung-Mao Pan, Earl Albone, Xin Cheng, Edward M. Suh, Luigi Grasso, Yoshihiro Ishihara, Phil S. Baran,* Bioconjugation by Native Chemical Tagging of C-H Bonds. *J. Am. Chem. Soc.* **2013,** *135*, 12994–12997.

17. Jinghan Gui,* Hailong Tian, Weisheng Tian,* Synthesis of Glaucogenin D, a Structurally Unique Disecopregnane Steroid with Potential Antiviral Activity. *Org. Lett.* **2013,** *15*, 4802–4805.

18. Shunji Zhang, Huaide Dong, Jinghan Gui, Weisheng Tian,* Stereoselective Synthesis of the Insect Growth Regulator (S)-(+)-Hydroprene through Suzuki-Miyaura Cross-Coupling. *Tetrahedron Lett.* **2012**, *53*, 1882–1884.

19. Jinghan Gui, Dahai Wang, and Weisheng Tian,* Biomimetic Synthesis of 5,6-dihydro-glaucogenin C: Construction of the Disecopregnane Skeleton by Iron(II)-Promoted Fragmentation of an α-Alkoxy Hydroperoxide. *Angew. Chem. Int. Ed.* **2011**, *50*, 7093–7096.

20. Yimin Hu,* Yuan Qu, Fenghua Wu, Jinghan Gui, Yun Wei, Qiong Hu, and Shaowu Wang,* Tuned C-H Functionalization to Construct Aza-Podophyllotoxin/Aza-Conidendrin Derivatives by Means of Domino Cyclization. *Chem. Asian J.* **2010**, *5*, 309–314.