



# Sisi Wang

School of Pharmaceutical Science and Technology,  
Tianjin University, Tianjin, P. R. China

Email: sisiwang2014@outlook.com Tel: (86) 15822917971

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## EDUCATION BACKGROUND

**Tianjin University, Tianjin, China**

*Sep 2011 to Jul 2015*

- B.S. in Pharmaceutical Science; Major: Medicinal Chemistry
- Cumulative GPA: **3.65/4**; Rank: **7/50**
- Core Courses: Inorganic Chemistry, Organic Chemistry, Physical Chemistry, Analytical Chemistry, Biochemistry and Medicinal Chemistry

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## RESEARCH EXPERIENCE

**Synthetic methodology laboratory of Professor Yunfei Du**

*Nov. 2013 to Jul. 2015*

- An cooperative project entitled “**Organocatalytic amination of alkyl ethers via  $n$ -Bu<sub>4</sub>NI/ $t$ -BuOOH-mediated intermolecular oxidative C(sp<sup>3</sup>)–N bond formation: novel synthesis of hemiaminal ethers**”. My responsibilities included preparation of various precursors and substrates, purification and characterization of the products. The research achievement was published in *Chem. Commun.* (50, 11738-11741 **2014**).
- An cooperative project entitled “**Organocatalytic Radical Involved Oxidative Cross-Coupling of N-Hydroxyphthalimide with Benzylic and Allylic Hydrocarbons**”. My responsibilities included design and synthesis of various substrates and investigate optimal reaction conditions. The research achievement was published in *Adv. Synth. Catal.* (in press, **2015**).
- Independent discovery of an oxidative reaction for the novel synthesis of a 1-methylindole derivative that has never been documented before.

**Biochemistry laboratory of Professor Matthias Bureik**

*Jul.2015 to Present*

- An independent project entitled “**Production of progesterone 11 $\alpha$ -glucuronide and progesterone 11 $\alpha$ -glucoside by human UGTs recombinantly expressed in fission yeast**”. Main tasks included yeast cultivation, whole-cell biotransformation and analysis of the metabolites by using LC-MS and HPLC.
- Independent synthesis of a novel N-glucuronide by using human UGTs as biocatalysts and 7-Amino-4-methylcoumarin as substrate.

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## PUBLICATIONS

- Longyang Dian, **Sisi Wang**, Daisy Zhang-Negrerie, Yunfei Du\* and Kang Zhao. Organocatalytic amination of alkyl ethers via  $n$ -Bu<sub>4</sub>NI/ $t$ -BuOOH-mediated intermolecular oxidative C(sp<sup>3</sup>)–N bond formation: novel synthesis of hemiaminal ethers. *Chem. Commun.* **2014**, 50, 11738-11741.

- Longyang Dian, **Sisi Wang**, Daisy Zhang-Negrerie, and Yunfei Du\*, Organocatalytic Radical Involved Oxidative Cross-Coupling of N-Hydroxyphthalimide with Benzylic and Allylic Hydrocarbons. *Adv. Synth. Catal.* **2015**, *in press*. DOI: 10.1002/adsc.201500623
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## HONORS & AWARDS

- *Sep. 2015*: **Represent Tianjin University** to attend “The eighth National College Student Annual Innovation Conference” (**0.1%**)
- *May. 2014*: **1<sup>st</sup> Prize** in **National** University Student Innovation Program (1%)
- *Apr. 2014*: Tianjin University Technological Innovation Excellent Student (2%)
- *Sep. 2013*: Tianjin University Advanced Individual of Social Practice (10%)
- *Fall 2012, 2013 and 2014*: Tianjin University Three A’s Award (10%)
- *Oct. 2012*: Tianjin University Military Outstanding Individual (5%)
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## SKILLS

- Multi-step design, synthesis and characterization of target compounds
- Microorganism cultivation and whole-cell biotransformation
- Good knowledge of various databases
- Proficient use of ChemOffice and MestReNova
- Mastery in the use of basic analytical instruments, such as NMR spectroscopy, LC-MS, GC-MS, HPLC, etc.
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## STANDARD TEST SCORES

- GRE general test     **323** (Q 165, 90% V 158, 79% AW 3.0, 15%)     *Oct 2014*
- TOEFL iBT test     **99** (R 29 + L 25+ S 20+ W 25)     *Nov 2014*
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## COMMUNITY ACTIVITIES

- **College Student Association Committee, chairperson**     *Mar 2012 to Jan 2013*  
Coordinated the three divisions (planning, executive and liaison divisions) to hold events such as the Annual Debate Contest, College Anniversary Celebration, Welcome Party for the Freshmen, etc.
- **University News Center, journalist**     *Sep 2011- Jun 2012*  
Reported important news of the college, such as the Sports Events, Inter-college Debate Contest, etc., on the university news website.
- **Symposium of Modern Pharmaceutical Science, volunteer**     *Dec 2013*  
Received foreign scholars and recorded meeting minutes
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## REFERENCES

- Professor Kang Zhao, School of Pharmaceutical Science and Technology, Tianjin University, P.R. China; kangzhao@tju.edu.cn
- Professor Yunfei Du, School of Pharmaceutical Science and Technology, Tianjin University, P.R. China; duyunfeier@tju.edu.cn
- Professor Matthias Bureik, School of Pharmaceutical Science and Technology, Tianjin University, P.R. China; matthias@tju.edu.cn