

CV of Singapore PI

Name: Liu Xuewei
Title: Full Professor
Office Mailing Address: 21 Nanyang Link, SPMS-CBC-05-02 Singapore 637371
Email: xuewei@ntu.edu.sg
Contact number: +65 6316 8901
Current position: Full-time Full Professor in NTU (100%)

Employment History

2019-present	Professor, Nanyang Technological University
2012-2019	Associate Professor, Nanyang Technological University
2006-2012	Assistant Professor, Nanyang Technological University
2003-2005	Postdoc Fellow, California Institute of Technology
2002-2003	Senior research Scientist, Chugai Pharm USA, San Diego
2000-2002	Research Scientist, Procter & Gamble

Academic Qualifications

2000: PhD., Chemistry, University of Southern California, Los Angeles, USA
1996: B.Sc. MSc, Chemistry, China Agricultural University, Beijing, China

Research Interests

Carbohydrate chemistry, glycobiology, antimicrobial and anticancer research

List of 10 Selected Significant Publications (Total 160, H-index 51, Citations 6200)

1. Jingxi He, Kim Le Mai Hoang, Shu Hui Kho, Zhong Guo, Kishore R. Venkata, Rubi Z. Vazquez, Sin Ni Hoo, Hongwei Duan, Mary B. Chan-Park and Xue-Wei Liu[#], "Synthesis of biohybrid peptidoglycan oligomers that incorporate into bacterial cell walls", *Chem. Sci.*, **2020**, *11*, 3171-3179.
2. Gabor Báti, Jingxi He, Kumar Bhaskar Pal, Xue-Wei Liu[#], "Stereo- and regioselective glycosylation with protection-less sugar derivatives: An alluring strategy to access glycans and natural products", *Chem. Soc. Rev.* **2019**, *48*, 4006-4018.
3. Wei-Lin Leng, Hui Yao, Jing-Xi He and Xue-Wei Liu[#], "Venturing Beyond Donor-Controlled Glycosylation: New Perspectives towards Anomeric Selectivity", *Acc. Chem. Res.*, **2018**, *51*, 628-639.
4. Kim Le Mai Hoang, Jing-xi He, Gábor Báti, Mary B. Chan-Park, and Xue-Wei Liu[#], "Short and Sweet: A Minimalist Approach to Stereoselective Glycosylation with Unprotected Donors", *Nature Commun.* **2017**, *8*, 1146.
5. Hua Chai, Kim Le Mai Hoang, Minh Duy Vu, Kalyan Pasunooti, Chuan-Fa Liu and Xue-Wei Liu[#], "N-Linked Glycosyl Auxiliary-Mediated Native Chemical Ligation on Aspartic Acid: Application towards N-Glycopeptide Synthesis", *Angew. Chem. Int. Ed.*, **2016**, *55*, 10363-10367.
6. Shaohua Xiang, Kim Le Mai Hoang, Jingxi He, Yujia Tan and Xue-Wei Liu[#], "Reversing the Stereoselectivity of a Palladium-Catalyzed O-Glycosylation through an Inner-Sphere or Outer-Sphere Pathway", *Angew. Chem. Int. Ed.*, **2015**, *54*, 604-607.
7. Kim Le Mai Hoang and Xue-Wei Liu[#], "The Intriguing Dual-Directing Effect of 2-Cyanobenzyl Ether for Highly Stereospecific Glycosylation Reaction", *Nat. Commun.*, **2014**, *5*, 5051.
8. Jing Zeng, Jimei Ma, Shaohua Xiang, Shuting Cai and Xue-Wei Liu[#], "Stereoselective β -C-Glycosylation via Palladium-Catalyzed Decarboxylative Allylation: Formal Synthesis of Aspergillide A", *Angew. Chem. Int. Ed.*, **2013**, *52*, 5134-5137.
9. Bala Kishan Gorityala[‡], Zhiqiang Lu[‡], Min Li Leow, Jimei Ma and Xue-Wei Liu[#], "Design of a "Turn-off/Turn-on" Biosensor: Understanding Carbohydrate-lectin Interactions to Utilization in Noncovalent Drug Delivery", *J. Am. Chem. Soc.*, **2012**, *134*, 15229-15232.
10. Rujee Lorpitthaya, Sharad B. Suryawanshi, Siming Wang, Kalyan Kumar Pasunooti, Shuting Cai, Jimei Ma and Xue-Wei Liu[#], "Total Synthesis of Sialic Acids by a Sequential Rhodium-Catalyzed Azridination and Barbier Allylation of D-Glycal", *Angew. Chem. Int. Ed.*, **2011**, *50*, 12054-12057.