

吳心如 博士

相關應用諮詢：

1. 樣品性質之相關鑑定儀器與技術分析。
2. 待測樣品之前處理作業與標準配製。
3. 提供分子結構性質與圖譜解析。
4. 探討高性能液相層析儀(HPLC)定性與定量分析。
5. 化學反應中間體之分子動力學機制研究。

諮詢時間：

週一～週五 8:00～17:00

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學歷與經歷：

1. Ph.D., Department of chemistry, National Tsing Hua University, Taiwan
2. Postdoctoral Fellow, Instrumentation Center, National Tsing Hua University

專長：

1. Advanced mass spectrometry analysis
2. Techniques and applications in NMR, Fluorescence microscopy
3. Bioorganic chemistry
4. Protein chemistry
5. Cell biology
6. Rational drug design and modeling

著作：

1. Mohammed Tarique Anwar, Avijit K. Adak, Sachin Kisan Kawade, Hsin-Ru Wu, Takashi Angata, Chun-Cheng Lin. Combining CuAAC reaction enables

- sialylated Bi- and triantennary pseudo mannose N-glycans for investigating Siglec-7 interactions. *Bioorg. Med. Chem.* **2022**, *67*, 116839-116850.
2. Mohammed Tarique Anwar, Sachin Kisan Kawade, Yi-Ren Huo, Avijit K. Adak, Deepa Sridharan, Yan-Ting Kuo, Chen-Yo Fan, Hsin-Ru Wu, Yun-Sheng Lee, Takashi Angata, Chun-Cheng Lin. Sugar nucleotide regeneration system for the synthesis of Bi- and triantennary N-glycans and exploring their activities against siglecs. *Eur. J. Med. Chem.* **2022**, *232*, 15, 114146-114159.
 3. Jyun-Siao Chen, Po-Hsun Huang, Ya-Chi Hsieh, Jen-Wei Liu, Hsiao-Lin Hsu, Kai-Min Zhang, Ren-Tsung Wu, Ting-Shuo Chang, Yu-Hao Liu, Hsin-Ru Wu, Shun-Yuan Luo. Trimethylsilyl Esters as Novel Dual-Purpose Protecting Reagents. *Synthesis*, **2022**, *54*, 754-762.
 4. Amit Ravindra Pantawane, Mayur Thul, Yi-Jyun Lin, Michelle Lin, Wesley Lin, Satyanarayana Reddy Julakanti, Hsin-Ru Wu and Shun-Yuan Luo. Mild and Efficient Tunable Brønsted Acidic Ionic Liquid Catalyzed O-Acetylation and O-Trimethylsilylation with Trimethylsilyl Acetate (TMSOAc) and Hexamethyldisilazane (HMDS). *Catalysts*, **2021**, *11*, 825-837.
 5. Yu-Ting Huang, Yi-Chia Su, Hsin-Ru Wu, Hsin-Hui Huang, Eugene C. Lin, Teng-Wei Tsai, Hsien-Wei Tseng, Jia-Lin Fang, Ching-Ching Yu. Sulfo-Fluorous Tagging Strategy for Site-Selective Enzymatic Glycosylation of para-Human Milk Oligosaccharides. *ACS Catal.* **2021**, *11*, 2631-2643.
 6. Kalyana K. Ponnappalli, Sachin K. Kawade, Avijit K. Adak, Hsin-Ru Wu; Lin, Chun-Cheng. Synthesis of Biologically Important 4-Phenyl-C-Glycosyl-1,2,3-Triazole Derivatives by Cu(I)-Catalyzed Azidealkyne Cycloaddition. *J. Chin. Chem. Soc.* **2021**, 1-6.
 7. Jyun-Siao Chen, Yi-Fan Ke, Heng-Yan Lin, Wesley Lin, Wei-Chung Yen, Hsin-Ru Wu, Shun-Yuan Luo. Development of a Novel Method for Trimethylsilylation of Saccharides. *Synthesis*, **2021**, *53*, 2000-2006.
 8. Mayur Thul, Amit Pantawane, Wesley Lin, Yi-Jyun Lin, Po-Fang Su, Shao-An Tseng, Hsin-Ru Wu, Wen-Yueh Ho, Shun-Yuan Luo. Tunable Aryl Imidazolium Ionic Liquids (TAILs) as Environmentally Benign Catalysts for the Esterification of Fatty Acids to Biodiesel Fuel. *Catal. Commun.* **2021**, *149*, 106243-106248.

9. Jyun-Siao Chen, Amit Ravindra Pantawane, Po-Hsun Huang, Jen-Wei Liu, Arumugam Sankar, Yi-Jyun Lin, Yu-Hao Liu, Hsin-Ru Wu, and Shun-Yuan Luo. One-Pot Protection Strategy of Glucosamine to Assemble Building Blocks of Chitosan and Lipid A. *Eur. J. Org. Chem.* **2020**, *34*, 5580-5595.
10. Mayur Thul, Yao-Peng Wu, Yi-Jyun Lin, Shu-Lin Du, Hsin-Ru Wu, Wen-Yueh Ho, and Shun-Yuan Luo. Ionic Liquid Catalyzed Per-O-Acetylation and Benzylidene Ring-Opening Reaction. *Catalysts*, **2020**, *10*, 642-653.
11. Yi-Jyun Lin, Yao-Peng Wu, Mayur Thul, Ming-Wei Hung, Shih-Huan Chou, Wen-Tin Chen, Wesley Lin, Michelle Lin, Daggula Mallikarjuna Reddy, Hsin-Ru Wu, Wen-Yueh Ho, Shun-Yuan Luo. Tunable Aryl Imidazolium Recyclable Ionic Liquid with Dual Brønsted–Lewis Acid as Green Catalyst for Friedel–Crafts Acylation and Thioesterification. *Molecules*. **2020**, *25*, 352-367.
12. Jyun-Siao Chen, Arumugam Sankar, Yi-Jyun Lin, Po-Hsun Huang, Chih-Hsiang Liao, Shen-Shen Wu, Hsin-Ru Wu and Shun-Yuan Luo. Phosphotungstic Acid as a Novel Acidic Catalyst for Carbohydrate Protection and Glycosylation. *RSC Adv.*, **2019**, *9*, 33853-33862.
13. Hsin-Ru Wu, Mohammed Tarique Anwar, Chen-Yo Fan, Penk Yeir Low, Takashi Angata, Chun-Cheng Lin. Expedient assembly of Oligo-LacNAcs by a Sugar Nucleotide Regeneration System: Finding the Role of Tandem LacNAc and Sialic Acid Position Towards Siglec Binding. *Eur. J. Med. Chem.* **2019**, *180*, 627-636.
14. Anindya Das, Pei-Jhen Li, Avijit K. Adak, Hsin-Ru Wu, Mohammad Tarique Anwar, Pei-Yun Chiang, Chung-Ming Sun, Jih-Ru Hwu and Chun-Cheng Lin. Stereoselective Synthesis of a 9-O-Sulfo Neu5Gc Capped O-Linked Oligosaccharide Found on the Sea Urchin Egg Receptor. *Org. Chem. Front.* **2019**, *6*, 54–61.
15. Ramajayam Kuppusamy, Rajagopal Santhoshkumar, Ramadoss Boobalan, Hsin-Ru Wu, and Chien-Hong Cheng. Synthesis of 1,2-Dihydroquinolines by Co(III)-Catalyzed [3 + 3] Annulation of Anilides with Benzylallenes. *ACS Catal.* **2018**, *8*, 1880-1883.
16. Ting-Chun Kuan[†], Hsin-Ru Wu[†], Avijit K. Adak, Ben-Yuan Li, Chien-Fu

Liang, Jung-Tung Hung, Shih-Pin Chiou, Alice L. Yu, Jih Ru Hwu, and Chun-Cheng Lin. Synthesis of an S-Linked $\alpha(2\rightarrow8)$ GD3 Antigen and Evaluation of the Immunogenicity of Its Glycoconjugate. *Chemistry Eur. J.* **2017**, *23*, 6876-6887.