

## 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

### 聯絡方式：

辦公室:化學館 R140

電話: (03) 571-5131 分機: 35409

e-mail: esims\_nscri@my.nthu.edu.tw

### 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, Taiwan

### 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. 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.

2. 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.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.

10. 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.
11. 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.
12. Ting-Chun Kuan<sup>+</sup>, Hsin-Ru Wu<sup>+</sup>, 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.