

Xu Yang

(She/her) PhD Student

Complex Carbohydrate Research Center, University of Georgia

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EDUCATION

Current University of Georgia (*January 2021-Present*)
Doctor of Philosophy in Analytical Chemistry (pursuing)

2019 Xiamen University (*September 2016-June 2019*)
Master of Science in Chemical Biology

2014 Xiamen University (*September 2010-July 2014*)
Bachelor of Science in Chemical Biology

CURRENT APPOINTMENTS

Analytical Services & Training, Complex Carbohydrate Research Center, Graduate Research Assistant

August 2021-present

PREVIOUS APPOINTMENTS

Tianjin Rohto Herbal Medicine Co., Ltd, Tianjin, China, Quality Control Chemist

May 2015-August 2016

RESEARCH INTERESTS

Comprehensive glycoproteomics on challenging analytes

Alginate glycomaterial mass spectrometry using machine learning

PUBLICATIONS

2024 One collaborative manuscript is under review.

- 2024 Savanna Skeeters, Kamal Bagale, Galina Stepanyuk, David Thieker, Aaron Aguhob, Kui K. Chan, Benjamin Dutzar, Sergei Shalygin, Asif Shajahan, **Xu Yang**, Paul A DaRosa, Emily Frazier, Maximilian M Sauer, Lisa Bogatzki, Kelly A Byrnes-Blake, Yifan Song, Parastoo Azadi, Eric Tarcha, Lianghai Zhang, Erik Procko. Modulation of the pharmacokinetics of soluble ACE2 decoy receptors through glycosylation. *Molecular Therapy - Methods & Clinical Development* **2024**, 101301.
- 2023 Antonio R Cerullo, Maxwell B McDermott, Lauren E Pepi, Zhi-Lun Liu, Diariou Barry, Sheng Zhang, **Xu Yang**, Xi Chen, Parastoo Azadi, Mande Holford, Adam B Braunschweig, Comparative mucomic analysis of three functionally distinct Cornu aspersum Secretions. *Nature Communications*, 14, 5361.
- 2022 Qianru Ma, Wentao Wang, **Xu Yang**, Yunhong Chen, Yan Liu, Hongxu Chen, and Yufen Zhao. Development and application of a sensitive phosphonium-hydrazide oligosaccharide labelling reagent in capillary electrophoresis-electrospray ionization-mass spectrometry. *Journal of Chromatography A*, 1680, 463409.
- 2019 Jianxi Ying, Peng Chen, Yile Wu, **Xu Yang**, Kaili Yan, Pengxiang Xu, and Yufen Zhao. Effect of high hydrostatic pressure on prebiotic peptide synthesis. *Chinese Chemical Letters*, 30 (2), 367-370.
- 2018 Hang Yuan, **Xu Yang**, Peng Chen, Yan Liu, Guo Tang, and Yufen Zhao. Appraisal of an oligomerization behavior of unprotected carbohydrates induced by phosphorus reagent. *Science China Chemistry*, 61, 243-250.
- 2017 **Xu Yang**, Jiepeng Gan, Hang Yuan, Peng Chen, Yan Liu, Yuyang Jiang, Hongxia Liu, and Yufen Zhao. MALDI MS-based analysis of oligosaccharides using 4-(diphenylphosphinyl) benzenamine as non-reductive amination derivatization reagent. *International Journal of Mass Spectrometry*, 417, 76-82.

PEER REVIEW (ACCEPT/REJECT/TOTAL)

Nature Communications	0/0/1
Journal of Chromatography A	1/0/2

CONFERENCES

2024 Society of Glycobiology Annual Meeting (SfG2024), Amelia Island, FL, *Direct & Automatic Alginate Oligosaccharide Mannuronic/Guluronic Acid Ratio Quantification from HCD-MS2 Using Machine Learning*, poster presentation.

2023 Society of Glycobiology Annual Meeting (SfG2023), Waikoloa, HI, *Enhancing N-Glycopeptide Enrichment with Phosphorylcholine ZIC-HILIC Resins as a Complement to iSPE®-HILIC*, poster presentation.

2023 Atlanta-Athens Mass Spectrometry Discussion Group Symposium (2023 AAMSDG Symposium), Atlanta, GA, *Enhancing N-Glycopeptide Enrichment with Phosphorylcholine ZIC-HILIC Resins as a Complement to iSPE®-HILIC*, poster presentation.

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Comprehensive glycoproteomics on challenging analytes

Alginate glycomaterial mass spectrometry using machine learning

VOLUNTEER SHIP

2023 American Society of Virology Annual Meeting (ASV2023), Athens, GA

2012 International Symposia on Advancing the Chemical Sciences: Challenges in Nanoscience (ISACS9), Xiamen, China

HONORS

Spring 2023 Graduate School Dean's Awards of University of Georgia

2017 Xiamen University Scholarship, third class