

Stanford



Wei Qin

Postdoctoral Scholar, Genetics

Bio

PROFESSIONAL EDUCATION

- Bachelor of Engineering, Beijing Institute Of Technology (2014)
- Doctor of Philosophy, Peking University (2019)

STANFORD ADVISORS

- Alice Ting, Postdoctoral Faculty Sponsor

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Chemical Proteomics with spatial and temporal resolution

Publications

PUBLICATIONS

- **Deciphering molecular interactions by proximity labeling.** *Nature methods*
Qin, W., Cho, K. F., Cavanagh, P. E., Ting, A. Y.
2021
- **Spatiotemporally-resolved mapping of RNA binding proteins via functional proximity labeling reveals a mitochondrial mRNA anchor promoting stress recovery.** *Nature communications*
Qin, W., Myers, S. A., Carey, D. K., Carr, S. A., Ting, A. Y.
2021; 12 (1): 4980
- **Chemoproteomic profiling of itaconation by bioorthogonal probes in inflammatory macrophages.** *Journal of the American Chemical Society*
Qin, W. n., Zhang, Y. n., Tang, H. n., Liu, D. n., Chen, Y. n., Liu, Y. n., Wang, C. n.
2020
- **S-glycosylation-based cysteine profiling reveals regulation of glycolysis by itaconate.** *Nature chemical biology*
Qin, W. n., Qin, K. n., Zhang, Y. n., Jia, W. n., Chen, Y. n., Cheng, B. n., Peng, L. n., Chen, N. n., Liu, Y. n., Zhou, W. n., Wang, Y. L., Chen, X. n., Wang, et al
2019
- **Chemoproteomic Profiling of O-GlcNAcylation in Caenorhabditis elegans.** *Biochemistry*
Qin, W. n., Xie, Z. n., Wang, J. n., Ou, G. n., Wang, C. n., Chen, X. n.
2019
- **Chemoproteomic profiling of protein-metabolite interactions.** *Current opinion in chemical biology*
Qin, W. n., Yang, F. n., Wang, C. n.
2019; 54: 28–36

-
- **Artificial Cysteine S-Glycosylation Induced by Per-O-Acetylated Unnatural Monosaccharides during Metabolic Glycan Labeling** *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*
Qin, W., Qin, K., Fan, X., Peng, L., Hong, W., Zhu, Y., Lv, P., Du, Y., Huang, R., Han, M., Cheng, B., Liu, Y., Zhou, et al
2018; 57 (7): 1817–20
 - **Quantitative time-resolved chemoproteomics reveals that stable O-GlcNAc regulates box C/D snoRNP biogenesis** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Qin, W., Lv, P., Fan, X., Quan, B., Zhu, Y., Qin, K., Chen, Y., Wang, C., Chen, X.
2017; 114 (33): E6749–E6758
 - **Quantitative chemoproteomics reveals O-GlcNAcylation of cystathionine β -lyase (CSE) represses trophoblast syncytialization.** *Cell chemical biology*
Liu, J. n., Shao, X. n., Qin, W. n., Zhang, Y. n., Dang, F. n., Yang, Q. n., Yu, X. n., Li, Y. X., Chen, X. n., Wang, C. n., Wang, Y. L.
2021
 - **Site-specific chemoproteomic profiling of targets of glyoxal.** *Future medicinal chemistry*
Chen, Y. n., Qin, W. n., Li, Z. n., Guo, Z. n., Liu, Y. n., Lan, T. n., Wang, C. n.
2019; 11 (23): 2979–87
 - **Next-generation unnatural monosaccharides reveal that ESRRB O-GlcNAcylation regulates pluripotency of mouse embryonic stem cells.** *Nature communications*
Hao, Y. n., Fan, X. n., Shi, Y. n., Zhang, C. n., Sun, D. E., Qin, K. n., Qin, W. n., Zhou, W. n., Chen, X. n.
2019; 10 (1): 4065
 - **Quantitative Profiling of Protein Carbonylations in Ferroptosis by an Aniline-Derived Probe** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
Chen, Y., Liu, Y., Lan, T., Qin, W., Zhu, Y., Qin, K., Gao, J., Wang, H., Hou, X., Chen, N., Angeli, J., Conrad, M., Wang, et al
2018; 140 (13): 4712–20
 - **Quantitative Profiling of Protein O-GlcNAcylation Sites by an Isotope-Tagged Cleavable Linker.** *ACS chemical biology*
Qin, K. n., Zhu, Y. n., Qin, W. n., Gao, J. n., Shao, X. n., Wang, Y. L., Zhou, W. n., Wang, C. n., Chen, X. n.
2018; 13 (8): 1983–89
 - **Chemoproteomic profiling of protein modifications by lipid-derived electrophiles** *CURRENT OPINION IN CHEMICAL BIOLOGY*
Chen, Y., Qin, W., Wang, C.
2016; 30: 37–45