Stanford

# Weifeng Lin

Postdoctoral Scholar, Chemistry

## Bio

### PROFESSIONAL EDUCATION

- Ph.D, Uppsala University , Chemistry (2023)
- M.MedSc, Uppsala University , Biomedicine (2019)

### STANFORD ADVISORS

- Eric Kool, Postdoctoral Faculty Sponsor

## Publications

### PUBLICATIONS

- **Dual screen for gut metabolites suppressing enterobacterial growth and invasiveness reveals structure-activity relationships among anti-infective indoles** *GUT MICROBES*
  Bergholtz, A., Lin, W., Kaur, A., Bhetwal, A., Zhu, S., Mateus, A., Di Martino, M., Eriksson, J., Globisch, D., Sellin, M. E.
  2026; 18 (1): 2728235
- **Chemical Metabolomics: Chemical Biology Tools for Advanced Metabolism Investigations** *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*
  Torregrosa-Chinillach, A., Tsiara, I., Haberek, W., Lin, W., Globisch, D.
  2026: e26122
- **Rapid and Bifunctional Chemoselective Metabolome Analysis of Liver Patient Samples Using the Reagent 4-Nitrophenyl-2H-azirine.** *Angewandte Chemie (International ed. in English)*
  Lin, W., Gerullat, L., Braadland, P. R., Fournier, A., Hov, J. R., Globisch, D.
  2024: e202318579
- **Identification of nutritional biomarkers through highly sensitive and chemoselective metabolomics.** *Food chemistry*
  Lin, W., Mellinghaus, K., Rodriguez-Mateos, A., Globisch, D.
  2023; 425: 136481
- **Chemoselective bicyclobutane-based mass spectrometric detection of biological thiols uncovers human and bacterial metabolites.** *Chemical science*
  Kaur, A., Lin, W., Dovhalyuk, V., Driutti, L., Di Martino, M. L., Vujasinovic, M., Löhr, J. M., Sellin, M. E., Globisch, D.
  2023; 14 (20): 5291-5301
- **Sensitive quantification of short-chain fatty acids combined with global metabolomics in microbiome cultures.** *Chemical communications (Cambridge, England)*
  Lin, W., García, F. R., Norin, E. L., Kart, D., Engstrand, L., Du, J., Globisch, D.
  2023; 59 (39): 5843-5846
- **A frame-shift mutation in COMTD1 is associated with impaired pheomelanin pigmentation in chicken.** *PLoS genetics*
  Bi, H., Tranell, J., Harper, D. C., Lin, W., Li, J., Hellström, A. R., Larsson, M., Rubin, C. J., Wang, C., Sayyab, S., Kerje, S., Bed'hom, B., Gourichon, et al
  2023; 19 (4): e1010724

- **Differential regulation of oxidative stress, microbiota-derived, and energy metabolites in the mouse brain during sleep.** *Journal of cerebral blood flow and metabolism : official journal of the International Society of Cerebral Blood Flow and Metabolism*
  Vallianatou, T., Lin, W., Bèchet, N. B., Correia, M. S., Shanbhag, N. C., Lundgaard, I., Globisch, D.
  2021; 41 (12): 3324-3338

- **Chemoselective and Highly Sensitive Quantification of Gut Microbiome and Human Metabolites.** *Angewandte Chemie (International ed. in English)*
  Lin, W., Conway, L. P., Vujasinovic, M., Löhr, J. M., Globisch, D.
  2021; 60 (43): 23232-23240

- **Squaric acid as a new chemoselective moiety for mass spectrometry-based metabolomics analysis of amines.** *RSC chemical biology*
  Lin, W., Yang, Z., Kaur, A., Block, A., Vujasinovic, M., Löhr, J. M., Globisch, D.
  2021; 2 (5): 1479-1483

- **Rapid Preparation of a Large Sulfated Metabolite Library for Structure Validation in Human Samples.** *Metabolites*
  Correia, M. S., Lin, W., Aria, A. J., Jain, A., Globisch, D.
  2020; 10 (10)

- **Difluoromethylation of Dicyanoalkylidenes by Electrophilic S-(Difluoromethyl)sulfonium Salt: Efficient Construction of Difluoromethylated All-carbon-substituted Centers** *CHEMICAL JOURNAL OF CHINESE UNIVERSITIES-CHINESE*
  Qin, W., Lin, W., Li, X., Xiong, W., Liu, G.
  2020; 41 (10): 2230-2238

- **Sensitive mass spectrometric analysis of carbonyl metabolites in human urine and fecal samples using chemoselective modification.** *The Analyst*
  Lin, W., Conway, L. P., Block, A., Sommi, G., Vujasinovic, M., Löhr, J. M., Globisch, D.
  2020; 145 (11): 3822-3831

- **Investigation of host-microbiota co-metabolism as a new strategy for biomarker discovery: New chemical biology tools for metabolomics analysis**
  Correia, M., Conway, L., Lin, W., Ballet, C., Garg, N., Globisch, D.
  AMER CHEMICAL SOC.2019

- **Chemoselective probe for detailed analysis of ketones and aldehydes produced by gut microbiota in human samples.** *Chemical communications (Cambridge, England)*
  Conway, L. P., Garg, N., Lin, W., Vujasinovic, M., Löhr, J. M., Globisch, D.
  2019; 55 (62): 9080-9083

- **Selective O-difluoromethylation of 1,3-diones using S-(difluoromethyl) sulfonium salt** *CHINESE CHEMICAL LETTERS*
  Liu, G., Li, X., Qin, W., Lin, W., Lin, L., Chen, J., Liu, J.
  2019; 30 (8): 1515-1518