

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

- **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.
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- **Identification of nutritional biomarkers through highly sensitive and chemoselective metabolomics.** *Food chemistry*
Lin, W., Mellinghaus, K., Rodriguez-Mateos, A., Globisch, D.
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- **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.
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- **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
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- **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.
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- **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.
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- **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.
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- **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.
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