

# Stanford

---



## Linglan Fang

Postdoctoral Scholar, Chemistry

### Bio

---

#### PROFESSIONAL EDUCATION

- Bachelor of Science, China Agricultural University (2013)
- Doctor of Philosophy, University of Washington (2020)
- Ph.D., University of Washington , Chemistry (2020)

#### STANFORD ADVISORS

- Eric Kool, Postdoctoral Faculty Sponsor

#### PATENTS

- Eric T. Kool, Linglan Fang. "United States Patent PCT 63/443,651 Methods and Modifications for Modulating Innate Immune Responses To RNA", Leland Stanford Junior University
- Linglan Fang, Eric T. Kool. "United States Patent PCT US2023010686 Chemically Reversible 2'-OH Acylation Protects RNA From Hydrolytic and Enzymatic Degradation", Leland Stanford Junior University

### Publications

---

#### PUBLICATIONS

- **Efficient post-synthesis incorporation and conjugation of reactive ketones in RNAvia2'-acylation.** *Chemical communications (Cambridge, England)*  
Shioi, R., Xiao, L., Fang, L., Kool, E. T.  
2023
- **2'-OH as a universal handle for studying intracellular RNAs.** *Cell chemical biology*  
Xiao, L., Fang, L., Kool, E. T.  
2023
- **Reactivity-based RNA profiling for analyzing transcriptome interactions of small molecules in human cells.** *STAR protocols*  
Fang, L., Kool, E. T.  
2023; 4 (4): 102670
- **RNA Infrastructure Profiling Illuminates Transcriptome Structure in Crowded Spaces.** *bioRxiv : the preprint server for biology*  
Xiao, L., Fang, L., Kool, E. T.  
2023
- **Pervasive transcriptome interactions of protein-targeted drugs.** *Nature chemistry*  
Fang, L., Velema, W. A., Lee, Y., Xiao, L., Mohsen, M. G., Kietrys, A. M., Kool, E. T.  
2023
- **Profiling of drug resistance in Src kinase at scale uncovers a regulatory network coupling autoinhibition and catalytic domain dynamics.** *Cell chemical biology*

Chakraborty, S., Ahler, E., Simon, J. J., Fang, L., Potter, Z. E., Sitko, K. A., Stephany, J. J., Guttman, M., Fowler, D. M., Maly, D. J.  
2023

● **Reversible 2'-OH acylation enhances RNA stability.** *Nature chemistry*

Fang, L., Xiao, L., Jun, Y. W., Onishi, Y., Kool, E. T.  
2023

● **Diverse Reagent Scaffolds Provide Differential Selectivity of 2'-OH Acylation in RNA.** *Journal of the American Chemical Society*

Xiao, L., Fang, L., Chatterjee, S., Kool, E. T.  
2022

● **Acylation probing of "generic" RNA libraries reveals critical influence of loop constraints on reactivity.** *Cell chemical biology*

Xiao, L., Fang, L., Kool, E. T.  
2022

● **The Right Tool for the Job: A Chemical and Genetic Toolkit for Interrogating DCLK1 Function** *CELL CHEMICAL BIOLOGY*

Fang, L., Maly, D. J.  
2020; 27 (10): 1221–23

● **Parallel Chemoselective Profiling for Mapping Protein Structure** *CELL CHEMICAL BIOLOGY*

Potter, Z. E., Lau, H., Chakraborty, S., Fang, L., Guttman, M., Ong, S., Fowler, D. M., Maly, D. J.  
2020; 27 (8): 1084–+

● **How ATP-Competitive Inhibitors Allosterically Modulate Tyrosine Kinases That Contain a Src-like Regulatory Architecture** *ACS CHEMICAL BIOLOGY*

Fang, L., Vilas-Boas, J., Chakraborty, S., Potter, Z. E., Register, A. C., Seeliger, M. A., Maly, D. J.  
2020; 15 (7): 2005–16

● **Chemoproteomic Method for Profiling Inhibitor-Bound Kinase Complexes** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*

Fang, L., Chakraborty, S., Dieter, E. M., Potter, Z. E., Lombard, C. K., Maly, D. J.  
2019; 141 (30): 11912–22

● **Targeting Dynamic ATP-Binding Site Features Allows Discrimination between Highly Homologous Protein Kinases** *ACS CHEMICAL BIOLOGY*

Chakraborty, S., Inukai, T., Fang, L., Golkowski, M., Maly, D. J.  
2019; 14 (6): 1249–59

● **A Combined Approach Reveals a Regulatory Mechanism Coupling Src's Kinase Activity, Localization, and Phosphotransferase-Independent Functions** *MOLECULAR CELL*

Ahler, E., Register, A. C., Chakraborty, S., Fang, L., Dieter, E. M., Sitko, K. A., Vidadala, R., Trevillian, B. M., Golkowski, M., Gelman, H., Stephany, J. J., Rubin, A. F., Merritt, et al  
2019; 74 (2): 393–+

● **Catalytic asymmetric synthesis of the Colorado potato beetle pheromone and its enantiomer** *TETRAHEDRON-ASYMMETRY*

Li, S., Fang, L., Zhong, J., Shen, J., Xu, H., Yang, Y., Hou, S., Bian, Q.  
2014; 25 (8): 591–95