

# Resume of Le FANG

## **Basic Information**



School: School of Life and Health Sciences  
Gender: Male  
Date of Birth: 1991.10  
Title: Associate Professor  
Education: Ph.D  
Tutor: Master degree  
Email: le.fang@hbut.edu.cn  
Interest of research: In vivo imaging, NIR-II fluorescent probes, cancer targeting

## **Academic Background**

From September 2009 to July 2013, Jiangnan University, Bachelor's degree in Dyeing & Finishing Engineering;

From September 2013 to July 2016, Dalian University of Technology, Master's degree of Chemical Engineering;

From September 2016 to October 2020, Queen Mary University of London, Ph.D of Chemistry.

## **Work Experience**

From January 2021 to December 2023, Postdoc, The Institute of Basic Medicine and Cancer, Chinese Academy of Sciences;

From December 2023 to present, Associate Professor, Huber University of Technology.

## **Representative Projects**

1. National Natural Science Foundation of China, Youth Science Fund project, 22104131, Tumor targeting and activated small-molecule fluorescent probes for cancer imaging, 2022-2024, Project leader.

2. The fellowship of China Postdoctoral Science Foundation, 2021M693401, Construction of small molecule NIR-II fluorescent probes for tumor targeting and "lighting up" and its application in ovarian cancer imaging, 2021-2022, Project leader.

3. National Key Scientific Program of China, 2022YFC3401003, Spatial and temporal network study of multidimensional omics in tumor development and phenomic analysis, 2022-2027, participated.

4. National Key Scientific Program of China, 2022YFA0913300, Design, construction and application of mini chromosome, 2022-2027, participated.

## **Representative Articles**

1. **L. Fang**, R. Ai, W. Wang, L. Tan, C. Li, D. Wang, R. Jiang, F. Qiu, L. Qi, J. Yang, W. Zhou, T. Zhu, W. Tan, Y. Jiang, and X. Fang. Hyperbranched Polymer Dots with

- Strong Absorption and High Fluorescence Quantum Yield for In Vivo NIR-II Imaging. *Nano Lett.*, 2023, 23, 8734–8742.
2. **L. Fang**, M. Watkinson, Subcellular localised small molecule fluorescent probes to image mobile Zn<sup>2+</sup>. *Chem. Sci.*, 2020, 11, 11366-11379.
  3. **L. Fang**, G. Trigiante, R. Crespo-Otero, C. S. Hawes, M. P. Philpott, C. R. Jones and M. Watkinson. Endoplasmic reticulum targeting fluorescent probes to image mobile Zn<sup>2+</sup>. *Chem. Sci.*, 2019, 10, 10881-10887.
  4. **L. Fang**, Crespo-Otero, C. R. Jones and M. Watkinson. Protect to detect: A Golgi apparatus targeted probe to image mobile zinc through the use of a lipophilic cell-labile protecting group strategy. *Sensors Actuators, B Chem.*, 2021, 338, 129850.
  5. J Yang, **L Fang**, R Jiang, L Qi, Y Xiao, W Wang, I Ismail, X Fang. RuCu Nanosheets with Ultra-high Nanozyme Activity for Chemodynamic Therapy. *Adv. Healthcare Mater.*, 2023, 2300490. (Co-first author)
  6. **L. Fang**, G. Trigiante, R. Crespo-Otero, M. P. Philpott, C. R. Jones and M. Watkinson. Biotin-tagged fluorescent sensor to visualize ‘mobile’ Zn<sup>2+</sup> in cancer cells, *Chem. Commun.*, 2018, 54, 9619-9622.
  7. **L. Fang**, G. Trigiante, R. Crespo-Otero, M. P. Philpott, C. R. Jones and M. Watkinson. An alternative modular ‘click-S<sub>N</sub>Ar-click’ approach to develop subcellular localised fluorescent probes for mobile Zn<sup>2+</sup>. *Org. Biomol. Chem.*, 2019, 17, 10013-10019. (Cover Paper)
  8. **L. Fang**, Y. Hu, W. Gong, *etc.* Fluorescent cross-linked supramolecular polymer constructed from a novel self-complementary AABB-type heteromultitopic monomer, *Org. Biomol. Chem.*, 2016, 14, 4039-4045. (Cover Paper)
  9. **L. Fang**, W. Gong, M. K. Dhinakarank, *etc.* A novel intramolecular reversible reaction between hydroxyl group and isobutenylene chain in a cyclophane-type macrocycle, *Chemical Papers*, 2016, 70, 663-666.
  10. D. Wang, W. Wang, **L. Fang**, L. Qi, Y. Zhang, Y. Liang, J. Liu, H. Yang, Q. Xue, L. Qi, W. Zhou, and X. Fang. Mitochondrial protease targeting chimeras for mitochondrial matrix protein degradation, *J. Am. Chem. Soc.*, 2023, 145, 23, 12861–12869.
  11. W. Zhou, W. Wang, Y. Liang, R. Jiang, F. Qiu, X. Shao, J. Ni, Y. Liu, L. Wang, **L. Fang**, M. Ni, C. Yu, Y. Zhao, W. Li, W. Huang, J. Li, M. J. Donovan, D. Wang, T. Fu, J. Feng, X. Wang, W. Tan, and X. Fang. The RNA binding protein LRPPRC promotes resistance to CDK4/6 inhibition in lung cancer. *Nat. Comm.*, 2023, 14, 4212.
  12. L. Qi, Y. Xiao, X. Fu, H. Yang, **L. Fang**, R. Xu, J. Ping, D. Han, Y. Jiang, X. Fang. Monodispersed and monofunctionalized DNA-caged Au nano-clusters with enhanced optical properties for STED imaging. *Small*, 2024, 20, 2400238.
  13. L. Qi, W. Wang, **L. Fang**, J. Li, L. Qi, D. Wang, J. Liu, Y. Xiao, W. Zhou, X. Fang, DNA molecular glue assisted bacterial conjugative transfer. *Chem. Eur. J.* 2024, e202401399.
  14. L. Tan, A. J. Misquitta, A. Sapelkin, **L. Fang**, R. M. Wilson, D. S. Keeble, B. Zhang, T. Zhu, F. Riehle, S. Han, K. Yu and M. Dove. X-ray total scattering study of magic-size clusters and quantum dots of cadmium sulphide. *Nanoscale*, 2019, 11, 21900-21908.
  15. X. Qian, W. Gong, X. Li, **L. Fang**, *etc.* Fluorescent cross-linked supramolecular polymer constructed by orthogonal self-Assembly of metal–ligand coordination and host–guest interaction. *Chem. Eur. J.*, 2016, 22, 6881-6890.