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## 教育背景 EDUCATION

复旦大学, 基础医学 博士 Ph.D. program at School of Basic Medical Sciences, Fudan University	09/2018 – 06/2023
西湖大学, 生物学 联合培养博士 Joint Ph.D. program at School of Life Sciences, Westlake University	09/2018 – 06/2023
芬兰赫尔辛基大学, 化学 本科交换 Exchange program at Department of Chemistry, University of Helsinki	08/2016 – 12/2016
武汉大学, 化学 本科 B.S. program at College of Chemistry and Molecular Science, Wuhan University	09/2014 – 06/2018

## 研究经历 RESEARCH

- 西湖大学 应急医学研究中心(博士后导师:孙仁) Center for Infectious Disease Research, Westlake University (Postdoc advisor: Dr. Ren Sun)  
蛋白质表征新方法的开发 Novel technology for protein characterization.
- 复旦大学-西湖大学 基础医学专业联合项目(博士生导师:郭天南) Joint Ph.D. program, Fudan Univ. & Westlake Univ. (Ph.D. advisor: Tiannan Guo)  
新冠和新冠后遗症的发病机制 Molecular mechanisms of COVID-19 and long COVID.  
基于质谱的蛋白质组技术开发 Mass spectrometry-based proteomics method development.

## 获奖经历 HONORS & AWARDS

复旦大学优秀毕业生 Outstanding Graduate Certificate, Fudan University	03/2023
西湖大学义翘神州奖学金 Sino Biological Award, Westlake University	10/2022
西湖大学院长荣誉奖章 Dean's Award, Westlake University	01/2022
国际人类蛋白质组组织 亚洲最佳海报奖 Best Posters From Asia, Human Proteome Organization Conference	11/2021
亚太多组学线上会议 最佳汇报奖 Best Presentation Award, Virtual Podium Asia Pacific Conference	11/2021
西湖大学苏武社会奖学金 Suwu Society Scholarship, Westlake University	10/2021
国家奖学金 National Scholarship	10/2019
全国大学生创新创业大赛 一等奖(团队) First prize, National Students Innovation and Entrepreneurship Training	11/2017
武汉大学交换生奖学金 Program Exchange Student Scholarship, Wuhan University	09/2016
全国大学生英语竞赛 一等奖 First prize, National English Competition for College Students	04/2016

## 社会活动 MEMBERSHIPS

国际人类蛋白质组组织 委员会成员 Human Proteome Organization (HUPO), ECR member	01/2023 –
安徽省舒城县书法家协会 理事 Chinese Calligrapher Association (Shucheng, Anhui Province), executive	01/2016 –
武汉大学书画协会 理事及外联部长 Cultural Calligraphy Association, executive and director of liaison	09/2015 – 06/2017

## 研究论文(部分) SELECTED PUBLICATIONS

- 已公开论文13篇、引用1100+次。详情请参看[链接](#)。Please refer [here](#) for a complete publication list. #, first and co-first authors.
- Liang, X.#; Sun, R.; Wang, J.; Zhou, K., Li, J., et al., Proteomics Investigation of Diverse Serological Patterns in COVID-19. *Molecular & Cellular Proteomics* 2023, 22(2): 100493. 主导临床项目, 分析了新冠及疫苗接种中抗体滴度的差异性。
  - Liang, X.#, Wang, Y., & Guo, T. Proteomics approaches to long COVID: current status and outlooks. *Life Medicine* 2023, Inad023. 撰写了基于蛋白质组方法获得的长新冠病理发现的综述。
  - Gao, X.#, Sun, R.#, Jiao, N.#, Liang, X.#, Li, G., et al., Integrative multi-omics deciphers the spatial characteristics of host-gut microbiota interactions in Crohn's disease. *Cell Reports Medicine* 2023, 101050. 协作临床项目, 分析了克罗恩病患者的组织空间多组学。
  - Wang, J.#; Liang, X.#; Zheng, Y.#; Zhu, Y.#; Zhou, K.#, et al., Pulmonary and Renal Long COVID at Two-year Revisit. *In revision* 2023. 主导临床转化项目, 整合了新冠康复者长达两年的临床、影像和多组学等高维数据, 并基于机器学习提前一年预测肺和肾部的新冠后遗症(正确率高于90%且可独立验证)。
  - Xu, L.#; Liang, X.#; Zhen, W.#; Xue, Z.; Zhang, F., et al., A common mechanism of temperature-sensing in thermoTRP channels. *In revision* 2022. 协作技术开发项目, 搭建了高通量分析蛋白质复合物的实验和分析流程。
  - Bao, J.#; Liu, S.#; Liang, X.#; Huang, W.#; Wang, C., et al., A prediction model for COVID-19 liver dysfunction in patients with normal hepatic biochemical parameters. *Life Science Alliance* 2022, 6(1): e202201576. 指导临床转化项目, 利用蛋白质组分析新冠肝损伤。
  - Yan, H.#; Liang, X.#; Du, J.#; He, Z.; Wang, Y., et al., Proteomic and metabolomic investigation of serum lactate dehydrogenase elevation in COVID-19 patients. *Proteomics* 2021, 21(15), 2100002. 协作临床转化项目, 基于多组学数据分析新冠中乳酸脱氢酶的过度表达。
  - Ge, W.#; Liang, X.#; Zhang, F.#; Hu, Y.#; Xu, L., et al., Computational optimization of spectral library size improves DIA-MS proteome coverage and applications to 15 tumors. *Journal of Proteome Research* 2021, 20(12), 5392-5401. 协作生物信息学项目, 开发了提升蛋白质组分析效果的软件subLib。

## 发明专利 PATENTS

- 郭天南; 梁潇; 陈晨; 石颖秋. 一种生物样本的蛋白质组学分析方法. ZL202210399034.7
- 郭天南; 梁潇; 石颖秋; 王瑛睿. 一种高效清除液相色谱中多肽残留的方法及应用. ZL202210103388.2
- 郭天南; 梁潇; 朱怡. 伴随蛋白/肽在提高蛋白质组实验效率中的应用. ZL202010762585.6

## 会议和报告(部分) SELECTED POSTERS AND TALKS

- Two-year Characterization of Pulmonary and Renal long COVID. *HUPO* 2022, Cancun, Mexico.
- Multi-omics Characterization of COVID-19 Reveals Risk Factors for One-year Sequelae. *HUPOReconnect* 2021, Online.