

## Post-doctoral Fellowship

One post-doctoral position is available in the State Key Lab on chemical biology and proteomics. Two projects will be provided for the candidate to choose and focus on. One studies regulatory roles of protein PTMs in neurodegenerative diseases such as Alzheimer's disease and Parkinson's disease. Another project is to investigate disease-causing mechanisms of environmental contaminants such as POPs or PM2.5 using cutting-edge chemical biology platforms. You will contribute to generate mechanistic hypotheses relevant to human health and disease through the interpretation of complex proteomics.

Responsibilities include but are not limited to:

- Perform affinity enrichment, identification and characterization of novel protein-ligand or protein-protein interactions.
- Prepare biological samples for in-lysate and in-cell experiments, utilizing chemical and metabolic labelling methodologies or label-free protocols as needed.
- Develop and implement novel mass spectrometry based proteomics protocols.
- Perform quantitative multiplexed proteomics experiments using TMT, iTRAQ etc.
- Analyze proteomics data in high throughput using bioinformatics software.
- Regularly present scientific updates and contribute to publications in high impact peer-reviewed journals and international conferences.

Opportunities for you

- Get training on the state-of-the-art MS instruments and proteomics technologies
- Oversea work experience in a prestigious research group
- Publications on high-impact journals
- Collaborations with world top Universities abroad such as UCSF, UC Berkeley, Stanford, Utrecht University
- Promotion opportunities

Candidates must have a Ph.D. or equivalent in chemistry, biochemistry, biology or related discipline. Experience in micro- and nano-scale liquid phase separation, proteomic technologies, mass spectrometry, bioinformatics, and protein chemistry, molecular biology is preferred. Competitive salary will be commensurate with qualifications and experience. Please send your CV (including publication list and contact information of three references) and a one-page statement of your research experience/interest to Dr. Zhao Qian (qianzhao@hkbu.edu.hk).