

GENERAL SUMMARY/ OVERVIEW STATEMENT:

A position is open for a full-time laboratory senior scientist focused on proteomics at the MGH Cancer Center in the laboratory of Liron Bar-Peled. The laboratory studies the cellular response to altered metabolic states in multiple cancer models. Specific studies relate to discovering druggable vulnerabilities in genetically defined cancers and elucidating the mechanisms of reactive oxygen species in cancer growth using cutting edge chemical proteomic technologies. To learn more about our research visit: barpeledlab.org.

The candidate will supervise a major expansion of cysteine druggability mapping in patient samples, overseeing the implementation of this technology by maintaining and operating advanced proteomics instruments and corresponding sample analysis. These duties include operation of LC-MS/MS systems, sample preparation, proteomic data collection and analysis and accurate recording of procedures and results, developing the project, supervising trainees, preparing figures for publications ordering necessary reagents to conduct experiments and participation in joint upkeep of the lab.

Dr. Bar-Peled seeks exceptionally motivated candidates who enjoy conducting research and involving themselves in the dynamic and intellectual environment of the laboratory. She or he will have the opportunity to become fully involved with all the steps of research being completed in our laboratory, often working directly with Dr. Bar-Peled, which will lead to numerous publications. Investigators in our laboratory will present at regular laboratory meetings. The experience gained in the lab will be very helpful for pursuing a career as a researcher or physician.

PRINCIPAL DUTIES AND RESPONSIBILITIES:

The primary techniques required for this position include:

- Extensive experience operating nanoflow LC-MS/MS proteomic instruments
- TMT labeling and proteomic sample preparation
- Supervises and oversees multiple projects in the lab
- Prepares manuscripts
- Independent researcher
- Maintains laboratory notebook
- Understands and applies basic scientific techniques
- Conducts analysis of results
- Supports the research of other lab members
- Assists with organizing materials for publication or presentation
- Maintains and orders supplies
- Works in an efficient manner
- Has a high capacity for problem solving

Other techniques may be required to further expand on experimental findings.

To apply, contact Dr. Tzu-Yi Yang tyyang@mg.harvard.edu