

Postdoctoral Fellow - Quantitative Protein Mass Spectrometry

[Pfizer Inc](#) - Andover, Massachusetts

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Job description

Org Marketing Statement

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Role Description

An exciting and rare Postdoctoral Fellowship is available in Pfizer's Pharmacokinetics Dynamics and Metabolism (PDM) group in Andover, MA, to join a leading mass spectrometry lab in biopharma with deep expertise in protein biomarker quantitation by liquid chromatography tandem mass spectrometry (LC-MS/MS). A key objective of this position is to advance capabilities for determining protein target turnover using an in vivo stable isotope labeled (SIL) amino acid pulse chase technique and quantitative mass spectrometry. Mechanistic PK/PD models that inform target validation, understanding of biological pathways and human dose projections can be sensitive to biological system specific properties (biomeasures) such as target turnover. To this end, the post-doctoral fellow will utilize expert skills in multiplexed, quantitative LC-MS/MS (HRMS and MRM) to measure the metabolic incorporation of SIL amino acids into proteins in preclinical and clinical studies. The methods will include the use of

advanced immunoaffinity enrichment approaches. The candidate will interrogate experimental data from fractional protein synthesis and fractional clearance rates using mathematical modeling approaches. The expectation is that the results from these studies will be published in top tier journals setting the foundation for a career in academia or industry.

Responsibilities

- * Development of semi-quantitative LC-MS/MS assays for target proteins (multiplexed and single analyte) including nanoflow chromatography; high resolution and triple quadrupole mass spectrometry; protein biochemistry including digestions, modifications and separations; antibody enrichment
- * Design of SIL amino acid pulse chase studies.
- * Development of computational models and data interpretation tools.
- * Handling of biological samples, specifically serum and tissues.

Qualifications

- * Doctoral degree in Analytical Sciences, Biochemistry, Chemistry or closely related fields with 0-2 years of postdoctoral experience.
- * Experience in quantitative protein mass spectrometry or targeted proteomics is essential.
- * Established track record applying innovative methods to drive project success.
- * Strong analytical, protein and enzyme biochemistry background, good understanding of concepts of immunology based analytical methods.
- * Passion for applying computational modeling and simulation approaches for data interpretation.
- * Able to work as part of a team.
- * Excellent communication skills, both written and oral.

Equal Employment Opportunity

Pfizer is committed to equal opportunity in the terms and conditions of employment for all employees and job applicants without regard to race, color, religion, sex, sexual orientation, age, gender identity or gender expression, national origin, disability or veteran status. Pfizer also complies with all applicable national, state and local laws governing nondiscrimination in employment as well as employment eligibility verification requirements of the Immigration and Nationality Act. All applicants must be authorized to work for Pfizer in the U.S. at the time of the commencement of employment. Foreign national applicants who will need employer immigration sponsorship to obtain or continue work authorization must disclose that fact as part of the application process. Pfizer may consider in its sole discretion sponsoring a foreign national applicant for work authorization and/or permanent residence (green card) depending on its business needs.

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