



Weill Cornell Medical College

POSTDOCTORAL FELLOW

Identification and mechanisms of lipid scramblases

Mechanism of protein N-glycosylation in the endoplasmic reticulum

[MENON LAB, WEILL CORNELL MEDICAL COLLEGE \(NEW YORK CITY\)](#)

JOB SUMMARY. We are looking for motivated individuals who are interested in joining our research team as postdoctoral fellows to study the molecular basis of lipid transport within cells and specifically in the pathway of protein glycosylation in the endoplasmic reticulum. This is a full-time position, for at least 2-3 years, with a minimum annual salary (for a recent PhD) of USD 60,000, and an excellent benefits package.

REQUIRED QUALIFICATIONS. A doctoral degree (PhD, MD, or MD/PhD) in biochemistry, cell biology, biophysics, or related field. Experience in yeast genetics/biochemistry/cell biology is preferred, but individuals with general experience in biochemistry and related fields will also be considered.

OVERVIEW. The Menon Lab studies how lipids are trafficked inside cells. Our goal is to identify the machinery needed for lipid transport and understand how it works. The lab currently focuses on lipid flip-flop, the process by which lipids move from one side of a membrane bilayer to the other side. This is important in many physiological processes such as apoptosis, blood clotting, protein glycosylation and growth of biological membranes. We use fluorescence-based and other assays to characterize how certain proteins (such as G protein-coupled receptors) flip-flop lipids and chemical biology tools to discover transporters that have eluded molecular identification. Our experiments are done *in vitro*, using synthetic components (e.g., purified proteins reconstituted into vesicles), or in mammalian or yeast cells in culture (e.g., genetics approaches, fluorescence microscopy, quantitative mass spectrometry). For more information on the Menon lab and recent publications, please visit <https://www.menonlab.org/>.

ENVIRONMENT. Weill Cornell Medical College is part of a Tri-Institutional nexus that includes The Rockefeller University and Sloan Kettering Institute. The three institutions are across the street from each other in Manhattan on the upper east side of New York City, creating an invigorating environment for biomedical research.



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