

Postdoc/Associate Research Scientist position in nuclear protein homeostasis and nuclear membrane dynamics

The Schlieker laboratory (<https://medicine.yale.edu/lab/schlieker/>) is seeking highly motivated researchers to join our collaborative and interdisciplinary team at Yale. Help us to characterize the role of nuclear envelope dynamics and nuclear protein homeostasis in relation to human disease. We also want to build the next generation of global scientific leaders, offering our scientists the mentoring, resources, and creative environment to launch successful careers.

We apply a broad range of interdisciplinary approaches including CRISPR-based genome wide screens, advanced live cell imaging, biochemical reconstitution and structural approaches. With these techniques, we investigate functional genetic networks operating within the nuclear envelope, monitor membrane dynamics both *in vivo* and *in vitro*, and mechanistically dissect molecular machines that sculpt and remodel nuclear membranes. Ultimately, we want to understand how defects in these processes are tied to human pathology, informing corrective therapy.

Projects are available in these areas: (i) identifying the molecular function of Torsins (essential AAA+ ATPases) in the context of nuclear pore complex assembly (<https://doi.org/10.1083/jcb.201910185>); (ii) analyzing the function of chaperones in modulating phase separation and protein quality control in the nucleus. (iii) functional and molecular analysis of NOMO, a novel membrane-shaping protein (<https://doi.org/10.1101/2021.01.28.428001>).

Research environment: Being affiliated with two departments (Department of Molecular Biophysics and Biochemistry and Department of Cell Biology), we embrace collaborative approaches and provide a diverse and nurturing training environment. As a member of the Yale Nucleus Club, we hold regular joint lab meetings labs across three departments, offering exciting opportunities for intellectual exchange, collaborations and skill development in a vibrant scientific community. Postdocs will have access to an impressive variety of state-of-the-art core facilities as well as outstanding educational resources through the Yale Center for Teaching and Learning (<https://poorvucenter.yale.edu/Postdocs>).

Qualified candidates should have a PhD in biochemistry, cell biology or molecular biology and have strong communication and team skills.

If interested, please contact christian.schlieker@yale.edu with a copy of your resume.