

## **BCH 251/252 Seminar Series**



**Y. Whitney Lin, Professor, Department of  
Biochemistry and Molecular Biology, Sealy  
Center for Structural Biology, University of  
Texas Medical Branch**

**Seminar Title: “Functional synergy in  
mitochondrial replisome and its  
implication in human diseases”**

**Abstract:** Human mitochondrial DNA replication machinery includes twinkle helicase, DNA polymerase gamma and the single-stranded DNA binding proteins. Nevertheless, twinkle alone has no helicase function, but together with Pol gamma, displays robust DNA winding activity. I will present our structural and functional studies of the synergy, as well as defects in replicome implicated in human diseases.

**Tuesday, April 1, 2025 12:00 p.m. - 12:50 p.m. PST**

**In-Person: Genomics Auditorium 1102A**

**Host: Dr. Gregor Blaha**