

Faculty Name:

Chi-Min Ho (Mimi)

Faculty Email:

ch3516@cumc.columbia.edu

Lab:

Ho Lab

Project Title:

Cryo Electron Tomography of Malaria Parasites: Image Processing

Description:

"The Ho Lab, in the Department of Microbiology & Immunology at Columbia University, is seeking a talented and motivated undergraduate researcher to join us in using cellular cryo electron tomography (cryoET) to explore how membrane protein complexes mediate host-pathogen interactions in the malaria parasite *Plasmodium falciparum*. Projects will be focused on using cryo focused ion beam scanning electron microscopy (cryoFIB/SEM) and cryoET to directly visualize the host-pathogen interface in parasite-infected human red blood cells. Learn more about our research and our team here: www.cmholab.org.

We are looking for an innovative, resourceful and resilient student who enjoys learning new things and is interested in helping us with image processing of 3D tomographic images of the host-pathogen interface in parasite-infected human red blood cells.

Undergraduate students interested in exploring research in our lab are welcome to send their resume, unofficial transcript, current class schedule, and a cover letter with a paragraph or two about themselves, their future career goals, and a brief description of what they hope to learn to Dr. Ho at ch3516@cumc.columbia.edu. We're excited to meet you!"

Location of Research:

On-Site

of hrs/week:

10

Department/Program:

Biomedical Engineering

Eligibility:

BS, Second Year, BS, Third Year, BS, Fourth Year, MS

To apply, please contact:

Mimi Ho, ch3516@cumc.columbia.edu