Faculty Name:
Chi-Min Ho (Mimi)

Faculty Email:
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Lab:
Ho Lab

Project Title:
Cryo Electron Tomography of Malaria Parasites: Biomedical 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:
35

Department/Program:
Biomedical Engineering

Eligibility:
BS, Second Year, BS, Third Year, BS, Fourth Year, MS

To apply, please contact:
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