## What to expect from cryo-EM (national service centers)

Edward T. Eng<sup>1\*</sup>, William J. Rice<sup>1</sup>, Anchi Cheng<sup>1</sup>, Bridget Carragher<sup>1</sup>, Clinton S. Potter<sup>1</sup>

<sup>1</sup>National Center for Cryo-EM Access and Training, Simons Electron Microscopy Center, New York Structural Biology Center, NY, 10027, USA.

Advances in cryo-electron microscopy (cryo-EM) imaging technology and data processing have resulted in the recent growth of single particle structures, which extend to near-atomic resolution. To broaden biomedical scientists' access to cryo-EM the NIH Common Fund's Transformative High Resolution Cryo-Electron Microscopy program has created three national service centers to provide access to the technology and the development of training curricula to build a skilled workforce. The mission of the NCCAT (National Center for Cryo-EM Access and Training) service center is twofold: to provide nationwide access to advanced cryo-EM technical capabilities, and to assist users in the development of cryo-EM skills needed for independent research. NCCAT provides access to state-of-the-art equipment required to solve structures to the highest possible resolution using cryo-EM methods. By implementing the most current best practices users are able to optimize different experimental parameters on-the-fly, thereby allowing reconstructions to be determined from images collected in a single day. Our objective is to enable biomedical researchers from all fields to make use of these cryo-EM techniques and methodologies in their research programs.

<sup>\*</sup>Corresponding author: eeng@nysbc.org