

# UNIQUE ASSETS IN NYC

## New York Structural Biology Center (NYSBC)



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### Overview

New York Structural Biology Center (NYSBC) is a unique consortium of **10 leading biomedical research** centers in New York State. Since opening in 2002, the NYSBC has become the nation's premier center for structural biology with unrivaled facilities for **Nuclear Magnetic Resonance Spectroscopy (NMR), Cryoelectron Microscopy (CEM)** and **X-Ray Crystallography**.

**NYSBC's research facilities** represent a capital investment of more than \$55 Million with very advanced instrumentation used to analyze proteins and other molecules that trigger diseases, such as bacterial and viral infections; chronic diseases, such as heart disease and neurodegeneration; and trauma.

**Member Institutions** – The institutional members are: Albert Einstein College of Medicine of Yeshiva University, City University of New York, Columbia University, Memorial Sloan-Kettering Cancer Center, Mount Sinai School of Medicine, New York University, The Rockefeller University, State University of New York, Wadsworth Center of the State of New York Department of Health, Weill Medical College of Cornell University.

103 Principal Investigators and their research groups from the 10 member institutions utilize the research resources.

### Research Resources –

- Nuclear magnetic Resonance Spectrometers @ 800 MHz and 900 MHz
- X-ray Crystallography beamlines at NSLS
- Cryoelectron Microscopy Resources @ 200kV and 300 kV

### Educational – Collaborations

- NYSBC offers three semester long, fully accredited, graduate level courses:
  - NMR Spectroscopy
  - Biomolecular NMR Spectroscopy
  - Cryoelectron Microscopy of Macromolecular Assemblies
- Seminar Series – bi-weekly presentations by scientists.
- New York Consortium on Membrane Proteins – a NIH-funded specialized facility for the study of this important class of proteins; part of NIH's Protein Structure Initiative.