

CUNY ASRC

BIOMOLECULAR NUCLEAR

MAGNETIC RESONANCE

FACILITY

About

The Biomolecular Nuclear Magnetic Resonance Facility features three state-of-the-art Bruker Avance III HD NMR spectrometers operating at 600, 700, and 800 MHz in the frequency of ^1H . All spectrometers are equipped with either cryoprobes or room-temperature probes. 800 and 600 MHz have a 24-holder SampleCase, and 700 MHz has a SampleJet - 5x96-tube rack and 30 spinners. The spectrometers are suitable for working with small to large molecules and offer a full complement of biomolecular NMR studies on proteins, nucleic acids, and other biomolecules to shed light on their structural, dynamic, and binding properties. The facility is open to all academic, start-up, and industry users. **For a full list of instrumentation and to learn more about this facility, visit <https://bit.ly/42abQ0Y>**

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Location

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ADVANCED SCIENCE
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CITY UNIVERSITY OF NEW YORK



Available Instrumentation

Bruker AVANCE III HD 800 MHz spectrometer

- 5-mm TCI CryoProbe (^1H - $^{13}\text{C}/^{15}\text{N}$ -2H + XYZ gradients)
- 5-mm TXI (^1H - $^{13}\text{C}/^{15}\text{N}$ -2H + Z gradient)

Bruker AVANCE III HD 700 MHz spectrometer

- 5-mm QCI-F CryoProbe (^1H - ^{19}F - $^{13}\text{C}/^{15}\text{N}$ -2H)
- QXI (^1H - ^{19}F - $^{31}\text{P}/^{13}\text{C}$ -2H)

Bruker AVANCE III HD 600 MHz spectrometer

- 5-mm TCI CryoProbe (^1H & ^{19}F - $^{13}\text{C}/^{15}\text{N}$ -2H). 5-mm TXI (^1H - $^{31}\text{P}/^{13}\text{C}$ -2H)
- Phoenix 1.6-mm and 1.2 mm HXY SS-probes, 40 kHz

About the CUNY ASRC

The [Advanced Science Research Center](http://www.asrc.gc.cuny.edu) at the CUNY Graduate Center (CUNY ASRC) is a world-leading center of scientific excellence that elevates STEM inquiry and education at CUNY and beyond. The CUNY ASRC's research initiatives span five distinctive, but broadly interconnected disciplines: nanoscience, photonics, neuroscience, structural biology, and environmental sciences. The center promotes a collaborative, interdisciplinary research culture where renowned and emerging scientists advance their discoveries using state-of-the-art equipment and cutting-edge core facilities.



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