Free BioAFM Workshop at CUNY

From Imaging to Mechanobiology: BioAFM for Life Sciences and Soft Matter

Featuring Bruker Optical Tweezers, Nanoindenters, and NanoIR Spectrometers

April 2 - 3, 2026
In-Person at City University of New York | New York, NY

Discover the Latest Advances in BioAFM Technology

Bruker is pleased to co-host a BioAFM Workshop in collaboration with CUNY on April 2-3, 2026. During this free event, presentations from distinguished research groups as well as Bruker's BioAFM expert will be provided. These engaging talks will highlight the unique and powerful capabilities of BioAFM and discuss Bruker's Optical Tweezers, NanoIndenter, and NanoIR systems.

We will also provide hands-on demonstrations with Bruker's **NanoWizard V BioScience**. Please note that this is an **in-person participation event only.** Virtual or remote attendance will not be available. If interested in providing samples, please register and email Saima Aktar Sumaiya at **saima_aktar.sumaiya@bruker.com**.

Breakfast and lunch will be provided.

NanoWizard V BioScience

Space is limited for hands-on demonstrations.

Register now to secure your spot!

Scan the QR code or **click here** to register.

Workshop Organizers

Dr. Tai-De Li
Research Associate Professor, Surface Science Facility Director
Nanoscience Initiative, CUNY Advanced Science Research Center
Visiting Professor, Department of Physics, CCNY
tli@gc.cuny.edu

Saima Aktar Sumaiya, Ph.D.
Technical Account Manager – Northeast
Bruker
saima_aktar.sumaiya@bruker.com

Workshop Location

CUNY
Advanced Science Research Center Auditorium
85 St. Nicholas Terrace
New York, NY 10031

View on Google Maps

See agenda on the next page

Free BioAFM Workshop at CUNY

From Imaging to Mechanobiology: BioAFM for Life Sciences and Soft Matter

Featuring Bruker Optical Tweezers, Nanoindenters, and NanoIR Spectrometers

April 2 - 3, 2026
In-Person at City University of New York | New York, NY

Thursday, April 2	
9:30AM - 10:00AM	**BioAFM Applications in CUNY-ASRC —** Dr. Tai-De Li, CUNY-ASRC
10:00AM - 10:30AM	**AFM in a Core Facility: Highlights from User Projects —** Yevgeniy Romin, Memorial Sloan-Kettering Cancer Center
10:30AM - 11:00AM	**BioAFM for Studying Mechanobiology of Smooth Muscle Cells in Aortic Disease —** Prof. Kevin Costa, Icahn School of Medicine at Mount Sinai
11:00AM - 11:10AM	**Break**
11:10AM - 11:30AM	**Optical Tweezers in Action: Biological and Physical Applications with NanoTracker 2 —** Dr. Randhir Kumar, Bruker
11:30AM - 12:00PM	**Bruker NanoTracker Virtual Demo**
12:00PM - 12:30PM	**Advancing Nanobiomechanical Research: Large Tissue Area Mapping with Nano Scale Rheology via AFM, Combination of Multi-Compartment and Automated Cell Segmentation, Integration of Optical Tweezers, AFM, and Optical Light Microscopy —** Dr. Yi Wei, Bruker
12:30PM - 2:00PM	**Lunch** (provided)
2:00PM - 2:30PM	**ML-Enabled Rapid AFM analysis: Contact Point Detection and Force-Curve Quality Assessment —** Dr. Jonathan Haydak, Icahn School of Medicine at Mount Sinai
2:30PM - 3:00PM	**Advanced Nanomechanical Testing of Biomaterials and Soft Samples —** Radhika Laxminarayana, Bruker
3:00PM - 3:35PM	**IR Beyond the Diffraction Limit: Introduction and Applications of Photothermal AFM-IR for Biological Applications —** Dr. Jinhee Kim, Bruker

Friday, April 3	
10:00AM - 4:00PM	**Hands-On Sessions:** Bruker's NanoWizard V BioAFM