



All times listed are Eastern Time (ET). Sessions will be hosted in-person.

- 8:30 A.M. Registration and Breakfast/Coffee
- 9:00 A.M. NanoBioNYC Introduction
[Prof. Rein V. Uljin](#), Director of NanoBioNYC and ASRC Nanoscience Initiative
- 9:05 A.M. Opening Remarks
[Dr. Rosemarie Wesson](#), Associate Vice Chancellor and University Vice Provost for Research
- 9:10 A.M. Welcome Remarks
[Dr. Kathleen Ehm](#), Program Director, NSF
- 9:15 A.M. Keynote Addresses:
[Prof. Akif Tezcan](#), UC San Diego
- 9:55 A.M. [Prof. Jerelle Joseph](#), Princeton University
- 10:35 P.M. Break
- 10:40 A.M. Session 1: Cross-Cutting Computational Research
Session Chair [Prof. Eleonora Gianti](#), Queens College
- 10:45 A.M. [Computationally-guided design of site-specific mAbs labels](#)
[Prof. Mateusz Marianski](#), Hunter College
- 11:05 A.M. [Molecular Distortions in Force-Accelerated Diels-Alder Reactions](#)
Ryan Kwok, Hunter College
- 11:20 A.M. [Coarse-Grained Molecular Dynamics Simulations of Polyelectrolyte Complexes](#)
Tania Rajpersaud, College of Staten Island
- 11:35 A.M. [AI-powered Systems Biology for Alzheimer's Disease Drug Target Discovery](#)
[Mohammadsadeq Mottaqi](#), Hunter College
- 11:50 A.M. Session 2: Green Materials and Energy Solutions
Session Chair [Prof. Yuemei Ye](#), Hunter College
- 11:55 A.M. [Biomimetic water-responsive crystals as high-energy actuators](#)
[Prof. Xi Chen](#), Advanced Science Research Center
- 12:15 P.M. [The Ultrastructural Mechanisms of Microglial Amyloid- \$\beta\$ Endocytosis](#)
Jack Mechler, Advanced Science Research Center
- 12:30 P.M. [Elastins as Solid-state Refrigerants](#)
Dharshika Malwane, City College of New York
- 12:45 P.M. [Ultrashort Peptide Crystals with Adaptive Topology](#)
Vignesh Athiyarath, Advanced Science Research Center

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- 1:00 P.M. Lunch + **Poster Presentations**
featuring [Nucleate NY](#)
- 2:35 P.M. Post-Lunch Remarks
[President Josh Brumberg](#), The Graduate Center
- 2:40 P.M. Session 3: Bio-Inspired Design of Functional Materials
Session Chair [Prof. Prabodhika Mallikaratchy](#), City College of New York
- 2:45 P.M. [Use of Nanotechnology and Targeting Strategies to Improve the Delivery of Gold Anticancer Agents](#)
[Prof. Maria Contel](#), Brooklyn College
- 3:05 P.M. [Ultrasonic-Tagged Remote Interferometric Spectroscopy \(URIS\): Advancing Optical Imaging for Deep Tissue Analysis](#)
[Julinda Mujo](#), Hunter College
- 3:20 P.M. [Development of a method to determine protein occupancy of a DNA sequence of interest in the developing retina](#)
[Angelina Grebe](#), City College of New York
- 3:35 P.M. [A Direct Route to Versatile Multiplexed Biosensors Using Single-Walled Carbon Nanotubes](#)
[Amelia Ryan](#), City College of New York
- 3:50 P.M. Session 4: Interfacing Nanotechnology and Biology
Session Chair [Prof. Ankit Jain](#), Brooklyn College
- 3:55 P.M. [Using Biology to Make Better Optical Nanosensors](#)
[Prof. Ryan Williams](#), City College of New York
- 4:15 P.M. [Leveraging Bioorthogonal Click Chemistry to Create Therapeutic Radioimmunoconjugate](#)
[Mike Cornejo](#), Hunter College
- 4:30 P.M. [Identification of Novel Phytotherapeutic Agents for Treating Hypertrophic Cardiomyopathy via Genetic Mapping and Advanced Computational Analysis](#)
[Favour Awah](#), City College of New York
- 4:45 P.M. [Polariton Photonics for Sensing and Imaging](#)
[Emroz Khan](#), Advanced Science Research Center
- 5:00 P.M. Break
- 5:20 P.M. Presentation Award Announcements
- 5:25 P.M. Closing Remarks
- 5:30 P.M. Evening Social with Refreshments + Games
- 7:00 P.M. Event Ends