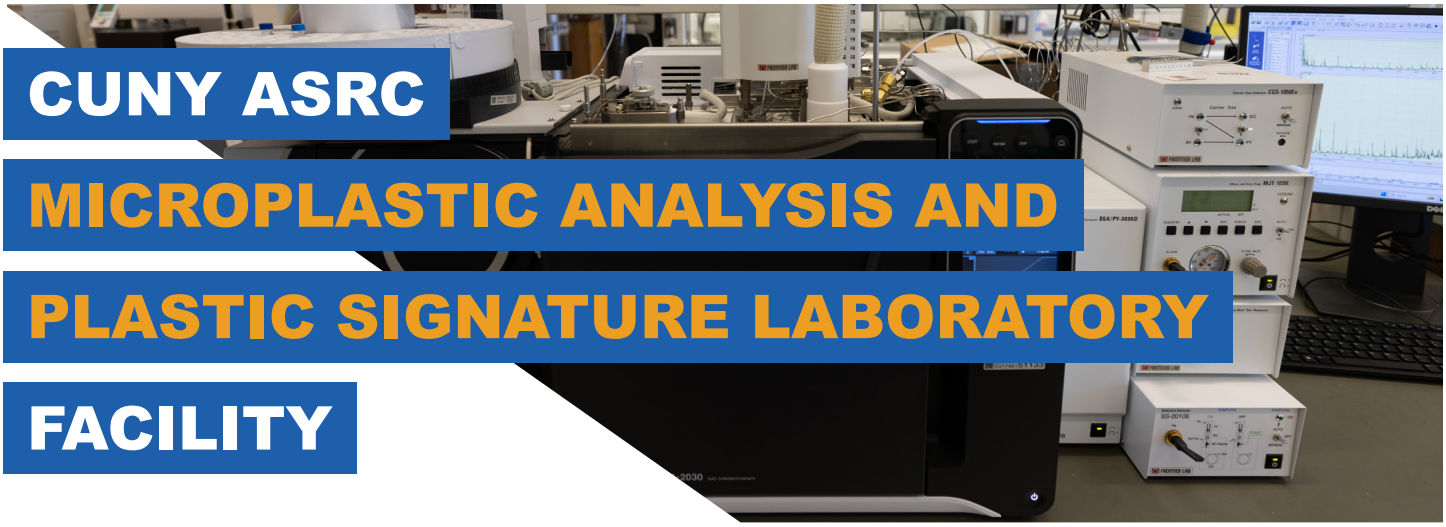
CUNY ASRC MICROPLASTIC ANALYSIS AND PLASTIC SIGNATURE LABORATORY FACILITY



About

The Microplastic Analysis and Plastic Signature Laboratory applies environmental chemistry and polymer science to quantitatively analyze plastics in environmental and biological samples. We identify and characterize micro- and nanoplastics in soils, biosolids, urban air, and human tissues with strict contamination control and low detection limits. Our capabilities include plastic isolation, chemical identification, and size and composition profiling in complex matrices. A core focus is method and instrument development, moving microplastics research beyond particle counts to robust chemical measurements using isotopic, thermal, and spectroscopic tools. **Learn more about the Microplastic Analysis and Plastic Signature laboratory at https://bit.ly/46i2BgX**

Contact

Brian Giebel, Ph.D.
Director
bgiebel@gc.cuny.edu

Location

85 St. Nicholas Terrace
Ground Floor
New York, NY 10031
asrc.gc.cuny.edu

ADVANCED SCIENCE RESEARCH CENTER
THE GRADUATE CENTER
CITY UNIVERSITY OF NEW YORK

Available Instrumentation

Shimadzu Nexis GC-2030–GCMS-QP2020 with Frontier Laboratories EGA/Py-3030D microfurnace pyrolyzer

- Single/Double Shot Mode, Carrier Gas Selector, Cryogenic Trapping, and Heart-cutting capabilities

Shimadzu AirSight FTIR/Raman Microscope

- FTIR - 15X Objective
- Raman - 50X/100X Objectives, 532 nm and 785 nm lasers

Shimadzu Xross IR Bench with ATR
Spec 6775 Cyrogenic Mill
Thermo Scientific Accelerated Solvent Extractor (ASE) 350
Labconco RapidVap

About the CUNY ASRC

The Advanced Science Research Center 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.

@CUNYASRC @ASRC_GC