



FACILITY DIRECTOR: **JIA LIU Ph.D.**
212-413-3183
JLIU1@GC.CUNY.EDU

LOCATION: **ASRC, GC/CUNY
FOURTH FLOOR**

ABOUT THE ASRC:

The **Advanced Science Research Center (ASRC)** at the **Graduate Center of the City University of New York (CUNY)** elevates scientific research and education at CUNY through initiatives in five distinctive, but increasingly interconnected disciplines: environmental sciences, nanoscience, neuroscience, photonics and structural biology. The ASRC promotes a collaborative, interdisciplinary research culture with researchers from each of the initiatives working side-by-side in the ASRC's core facilities, sharing equipment that is among the most advanced available.

ABOUT THE ASRC EPIGENETICS FACILITY

The Epigenetics Core Facility provides an array of state-of-the-art epigenetics research resources and services that include: flow cytometry, single cell genomic analysis, quantitative gene expression analysis, *in situ* hybridization with special resolution, DNA/chromatin extraction, fragmentation, and protein-nucleic acid association (ChIP) from tissue and enriched population, and next generation sequencing (RNA-seq and ChIP-seq).

The facility welcomes users from CUNY, other academic and research institutions, start-up companies and industry.

AVAILABLE INSTRUMENTATION/SERVICE ARIAFUSION CELL SORTER

Four lasers (11 colors) advanced cell sorter with bioprotection

MASSARRAY SYSTEM WITH EPITYPER

Mass spectrometry-based targeted DNA methylation analysis.

ILLUMINA SEQUENCING

mRNA-seq, RNA-seq with ribo-depletion, ChIP-seq library preparation and paired-end read sequencing

RNA Scope

Visualize, localize and quantify RNA molecular expression

10X Chromium iX

Single cell transcriptomics and multiome capability with featured barcode technology

C1

Automated single-cell preparation

BIOMARK HD

Automated, high-performance PCR system allowing single-cell sensitivity

QUANTSTUDIO 7 FLEX REAL-TIME QPCR SYSTEM

Quantitative PCR applications with automation options

PIPETMAX

Automated liquid handling with qPCR set-up assistance

QUBIT 3.0 FLUOROMETER

Sensitive nuclei acid quantification for NGS

TAPESTATION 4200

Gold standard for sample quality control for NGS

PIPPINHT

High throughput size selection for NGS

BIORUPTOR PICO SONICATION SYSTEM

All-in-one shearing system for DNA, RNA, chromatin shearing

NANODROP ONE

DNA, RNA, protein quantification with improved accuracy and early contaminant detection

FOR MORE INFORMATION, VISIT

ASRC.CUNY.EDU/EPIGENETICS

