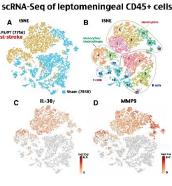
Genome Analysis and Technology Core





Our Services

Nucleic Acid - QC and Measurement

- Agilent Bioanalyser, Tape Station
- NanoVue and Qubit

Single Cell Analysis

- 10x Genomics
 - o RNA-seq 3' Library kits
 - VDJ T or B cell with 5' RNA-seq kit
 - MultiOmics (ATAC-seq and GEX)
 - Cell Plex (liquid based), Feature barcode (antibody based)
 - o Fixed RNA single cell (FLEX)
- Parse Bioscience Ever Code
 - WT Mini 12 samples 10,000 cells
 - o WT 48 samples 100,000 cells
 - WT Mega 96 samples 1 Million cells

Bulk RNA/DNA Library Prep for NGS Illumina's NextSeq and miSeq

- RNA-seq gene profiling (RNA-M)
- Whole transcriptome (RNA-R)
- Custom-Amplicon, Crisper screen and 16S-Metagenomic
- Whole Small Genome (DNA-seq)
- Whole Exome Seq

Quantitative PCR

• Qlagen Qiacuity Digital PCR: GEX, CNV Real Time PCR: GEX, Genotyping



Enhancing Research, Rigor and Reliability

Our Team

Arteriosclerosis, Thrombosis, and Vascular Biology

KLF4 (Kruppel-Like Factor 4)-Dependent

Perivascular Plasticity Contributes to Adipose

BASIC SCIENCES

Tissue inflammation

Katia Sol-Church, PhD - Director Professor of Pathology

Yongde Bao, PhD – Associate Professor

SCIENCE ADVANCES | RESEARCH ARTICL

glymphatic function, cogn

and B-amyloid patholog

Aging-associated deficit in CCR7 is linked to worsened

MMUNOLOGY

Alyson Prorock, MS - Lab Specialist



Contact

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Alyson Prorock: ajp7x@virginia.edu 434.243.9689

GATC Website: med.virginia.edu/gatc

Request services on: uva.corefacilities.org/account/login

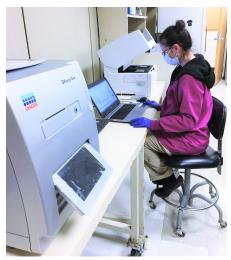
UVA Genome Analysis and Technology Core Pinn Hall| Room 1074/1076 1340 Jefferson Park Avenue Charlottesville, VA 22908



About Us

The mission of the Genome Analysis and Technology Core (GATC) is to serve as a scientific resource and biotechnology hub enhancing the scope and quality of basic and translational research at UVA, and to provide customer satisfaction, collaboration and quality control.

We provide support for project design, data troubleshooting, methods for publication and support for grant application (letter of support, budget preparation).



The goal of GATC staff is to enable

Next Generation Sequencing

projects for novice and experienced users

Instrumentation

Shared Instrumentation

- Agilent Bioanalyzer and Tape Station
- Qubit 3.0 fluorometer
- Qiagen QIAcuity One 5plex
- Nanopore GridION
- QuantStudio 6 Flex Real Time PCR
- NanoVue spectrophotometer
- Platform System FUL-2

Core Operated Instrumentation

- 10X Genomics Chromium Controller
- Illumina NextSeq 2000 Sequencing System
- Illumina MiSeq Sequencer