



Molecular Biology and Genomics Core

SERVICES Offered

- RNAi gene silencing and CRISPR/Cas9 editing
- Transgene overexpression, mutagenesis, and deletion
- Lentiviral, adenoviral, and nonviral gene transfer
- Stable knockout and transgenic cell-line development
- Bulk and single-cell RNA sequencing
- MicroRNA Sequencing
- Ribosome sequencing/ribosome footprinting (Ribo-seq)
- Spatial gene-expression profiling
- n-counter digital multiplexed profiling
- Genome-wide CRISPR activation, knockout, and interference screens
- Reporter assays, real-time PCR, and droplet digital PCR
- Respiratory and infectious-disease reagents, pathogens, cell lines, primary lung cells, organoids, and clinical samples
- Consultation and training

Academic Partners

Oklahoma State University: Division of Agriculture Sciences and Natural Resources | College of Arts & Sciences | College of Engineering,
Architecture & Technology | Center for Health Sciences | College of Veterinary Medicine | College of Education and Human Sciences

University of Oklahoma: College of Arts & Sciences | College of Medicine | College of Pharmacy

[Oklahoma Medical Research Foundation](#)

SUPPORTED BY NIH CENTERS OF BIOMEDICAL RESEARCH EXCELLENCE (COBRE)