

CONSOLIDATED CORE LAB



The Consolidated Core Lab (CCL) was created to bring economy of scale (often known as shared services), coordination, and collaboration to research areas that require genomic sequencing and related data processing. It is a partnership among the OU Norman campus, OU Health Sciences Center (HSC), and Oklahoma Medical Research Foundation (OMRF). The CCL serves faculty and students and is funded by the Office of the Vice President for Research as well as external grants and contracts.

WHAT IS IT FOR?

Facilitate the advancement of genomics and related sciences by OU faculty and their students. This will be achieved through a traditional "Core" service for basic genomics coupled with the offering of wet-lab bench space, capital equipment availability, training, and consultation.

WHAT CAN IT DO?

- › WGS library prep
- › Illumina Miseq sequencing
- › Courier to OMRF Clinical Genomics Center
- › Bioinformatics consultations

WHAT CAN YOU DO WITH IT?

- › Have WGS sequencing libraries made and sequenced for you
- › Use provided wet-lab space and equipment to prepare your own genomic libraries
- › Come and use specialized equipment as needed for your science

CCL EQUIPMENT

Covaris M220

[Advanced sonication for DNA shearing]

Agilent Tapestation

[Automated sizing and quantification of DNA/RNA/Protein]

Sage Science PippinPrep and BluePippin

[Automated size selection of DNA]

Qiagen Qiacube

[Automation of Qiagen spin-column protocols]

Biorad QX200

[Digital Droplet PCR]

OMRF EQUIPMENT

Fluidigm C1

[Single-cell capture system for mRNA, WGS, or custom protocols]

Fluidigm Juno/Biomark

[Nanoliter-scale qPCR/RT-qPCR]

[High-throughput amplicon generation via the Juno]

Covaris E220e

[Higher throughput sonication]

10X Genomics Chromium

[Single Cell Transcriptomics]

Illumina Sequencing

[NextSeq and NovaSeq]

QUESTIONS? CONTACT GRAHAM WILEY AT WILEYG@OU.EDU OR VISIT OU.EDU/CCL FOR MORE INFORMATION