

MICROARRAY CORE AND BIOINFORMATICS RESOURCE FACILITIES
Department of Biochemistry and Molecular Biology
Oklahoma State University

Purpose

These Facilities function to stimulate the competitiveness of microarray and bioinformatics research activities at the Oklahoma State University by providing access to advanced analysis equipment and software tools.

Major Services

High-through sequencing using an Illumina NextSeq500 instrument capable of producing 120-billion bp of sequence data in 28 hours. These services include:

- **Whole Genome Sequencing**
 - RNAseq
 - Methylation-based sequencing
 - Microbiome sequencing
 - Metagenomic Sequencing
 - Targeted sequencing (exomes, regions of interest, etc.)
 - (For more information, check out Illumina's page and poster "For all you Seq")
<https://www.illumina.com/techniques/sequencing/ngs-library-prep/library-prep-methods.html>

- **Production of low to high density microarrays including:**
 - Microarray Scanning and analysis
 - Roche 454-sequencing (discontinued in ~June 2016)
 - Consultation for experiments, projects and proposal development
 - Data storage and retrieval

- **Bioinformatics Services:**
 - Please call for consultations

More information is on our webpages:

1. Equipment

(http://microarray.biochem.okstate.edu/index.php?option=com_content&view=article&id=70&Itemid=92)

2. Software – Analysis Tools

(http://microarray.biochem.okstate.edu/index.php?option=com_content&view=article&id=77&Itemid=99)

3. Training

(http://microarray.biochem.okstate.edu/index.php?option=com_content&view=article&id=101&Itemid=103)

- DNA microarray workshops
- Bioinformatics workshops
- Software Carpentry Workshops (Data Carpentry soon!)

4. Fees

(http://microarray.biochem.okstate.edu/index.php?option=com_content&view=article&id=82&Itemid=107)

- **Approximately \$35 per hour**

Contact Information

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Web sites: <http://microarray.okstate.edu>; ~~<http://bioinfo.biochem.okstate.edu>~~ ← under repair