

THE CLEAR ADVANTAGE of CLAS



The DHMRI Center for Laboratory Animal Sciences (CLAS) offers the clear advantage of integrating analytical sciences and animal care. The center gives academic and industry researchers the benefit of seamless coordination for sample preparation, procedures, experiments and data analysis that allows them to tap our full range of scientific expertise

CLAS Features:

- » Capacity for more than 11,000 rodent cages in a 40,000-square-foot, AAALACi-accredited, secured facility that is wirelessly enabled and environmentally controlled
- » A board-certified attending veterinarian who is a diplomate of the American College of Laboratory Animal Medicine directing the center
- » Certified laboratory animal care technicians and technologists on staff
- » A dedicated surgical suite with procedure rooms and quarantine facility
- » Ability to prepare and analyze samples for projects such as microbiome research
- » Expedited IACUC protocol reviews and approvals

At the David H. Murdock Research Institute (DHMRI), located on the NC Research Campus outside of Charlotte, partnerships with academia, industry and government tap the expertise of our analytical scientists, advancing research in human health, nutrition and agriculture. Our capabilities include:

In Vitro Sciences

- » Protein assays
- » Extracellular (exosome) isolation and analysis
- » Clinical chemistry analysis
- » Flow cytometry

Analytical Sciences

- » Metabolomics - targeted quantitation and broad spectrum analysis
- » Proteomics - targeted quantitation and discovery
- » NMR - protein and small molecule quantitation, characterization and interaction

Genomics

- » Whole genome sequencing- de novo assembly, phasing and haplotyping
- » Gene expression analysis- whole transcriptome, single cell transcriptome and gene targeted assays
- » Microbiome characterization -16S rRNA profiling and metagenomics studies
- » Methylation profiling
- » microRNA analysis
- » SNP genotyping

Bioinformatics

- » Genomics Data
- » Protein Pathway Analysis

Confocal Microscopy and Biological Imaging Support

An AAALACi-accredited vivarium for rodent research

