



Office of Core Shared Services

OCSS RESEARCH VISION

MAYO CLINIC
RESEARCH CORES
OFFER A WIDE VARIETY
OF SPECIALIZED SERVICES
TO SUPPORT
MAYO RESEARCHERS

Innovate

Provide access to advanced research technology infrastructure to fuel innovation.

Collaborate

Provide expert experimental design and technical guidance to accelerate discovery.

Integrate

Provide unique data generation pipelines that integrate into the entire DTA spectrum.

Cure

Provide the tools necessary to realize first-in-human cures that can only be accomplished at Mayo.

For More Information Contact:

Mayo Clinic Research Cores

🌐 mayo.edu/research/core-facilities

✉ mayoresearchcores@mayo.edu



THE ENGINES OF DISCOVERY

OFFICE OF CORE SHARED SERVICES

BIOMOLECULAR ANALYSIS

Cytogenetics Core

Provides a range of cytogenetic services to support chromosome characterization in tissues and cells.

Genome Analysis Core

Offers a range of next-generation sequencing, gene expression, genotyping and DNA methylation applications.

Immune Monitoring Core

Offers mass cytometry-based single cell phenotyping assays and multiplexed immunofluorescence imaging.

Targeted Biomarker Core

Provides immunochemical, chemistry and immune assay testing and validation.

Metabolomics Core

Offers mass spectrometry and nuclear magnetic resonance spectroscopy techniques for detection and quantitation of metabolites.

Multi-Omics Mass Spectrometry Core

Offers proteomic mass spectrometry based testing at single-cell sensitivity aiding in the discovery of new therapeutic targets and biomarkers.

Proteomics Core

Provides proteomics tools, from biomarker discovery, signaling pathway analysis, interactome analysis and drug target analysis to targeted quantitation of proteins in clinical samples and development of diagnostic assays.

Spatial Biology Core

Provides access to state-of-the-art single cell spatial proteomics and transcriptomics services.



MOLECULAR DEVELOPMENT

Antibody Hybridoma Core

Offers custom monoclonal antibody production and labeling.

Transgenic & Knockout Core

Generates customized and optimized transgenic and gene-targeted mouse models.

STRUCTURAL TESTING & IMAGING

Biomechanics Core

Provides mechanical testing and a full range of biomechanical engineering design, analysis, and fabrication services.

Biomedical Imaging Resource Core

Supports research in biomedical imaging and visualization science through reproducible image analysis and robust data management.

Flow Cytometry Core

Provides investigators on the Arizona campus access to state-of-the-art flow cytometry and cell sorting instrumentation.

Microscopy & Cell Analysis Core

Provides a range of light and electron microscopy services and offers multiparametric flow cytometry and cell sorting.

Structural Biology Core

Offers cryogenic electron microscopy for near atomic resolution analysis of protein structures.

X-Ray Imaging Core

Provides full support for cutting-edge x-ray imaging of humans and non-human animal models.

DATA ANALYTICS

Bioinformatics Core

Provides comprehensive bioinformatics consulting and analysis services.

Biostatistics Core

Provides comprehensive biostatistics consulting and analysis services.

Survey Research Center

Provides consultative and design services in support of survey-based estimations of populations of interest.

SPECIMEN PROCESSING

Biospecimens Accessioning & Processing Core

Offers pre-analytical biospecimen collection, processing and storage solutions.

Pathology Research Core

Provides support for human tissue processing and analysis, including histological services, tissue microarray construction, immunostaining, digital image capture and preparation of tissues for subsequent nucleic acid or protein extraction.

Histology Core

Provides support for all non-human tissue processing, embedding, sectioning and histological staining and offers certified veterinary pathology services.

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