



One Integrated Network

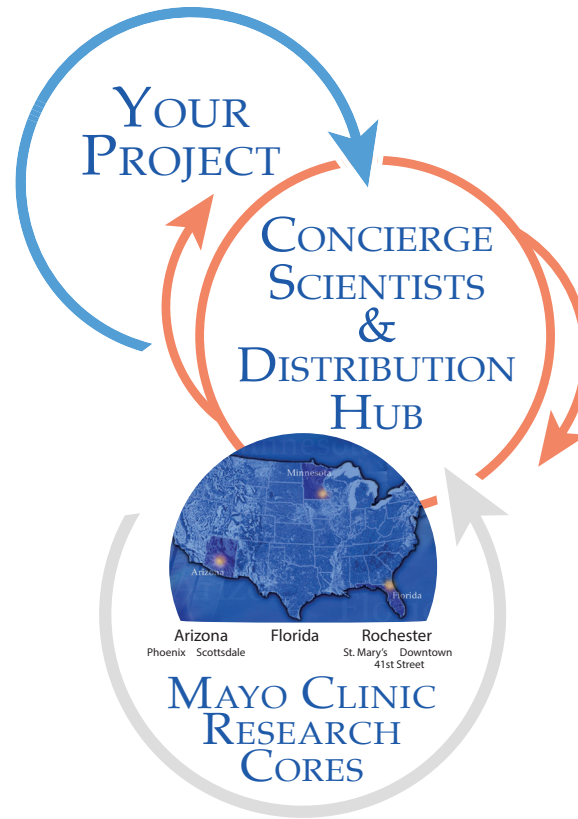
Use the best capability for your study regardless of campus. The Distribution Hub provides straightforward entry and routing so your samples reach the right Core quickly and correctly.

Designed Pipelines, Executed in Cores

Our Concierge Scientists turn your research aims into a clear, costed, cross-core plan, from sample to analytics. Cores perform all laboratory services under approved SOPs.

Outcome

Faster starts, cleaner budgets, consistent pre-analytics, and smoother transitions from sample to insight, with analysis-ready deliverables.



Boost Your Research in 4 Simple Steps

1. **EMAIL US** with research aims, specimen types, and timing.
2. **CONCIERGE INTAKE** we meet with you, propose a cross-core plan, and connect you to sample intake mechanisms.
3. **DISTRIBUTION HUB ENTRY** we provide routing and package guidance for smooth cross-campus transfers.
4. **CORES EXECUTE** analytics deliverables arrive ready for interpretation and next decisions.

Mayo Clinic Research Core Facilities

 mayo.edu/research/core-facilities

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01/2026

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Innovate. Collaborate. Integrate. Cure.

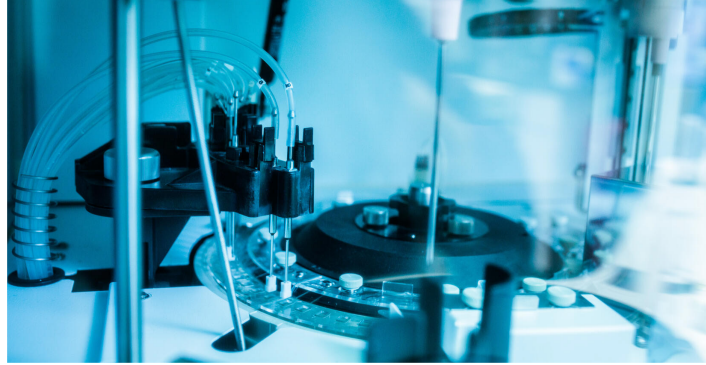


ENGINES OF DISCOVERY

A connected network of research capabilities: biospecimen operations, histology & pathology, research model development, spatial biology, proteomics, cytometry, imaging and genomics through one simple front door.

EVERYTHING YOU NEED,
DELIVERED

CONCIERGE: DESIGN & COORDINATION
DISTRIBUTION HUBS: ENTRY & ROUTING
CORES: LABORATORY EXECUTION



SPATIAL PROGRAMS
BY CAMPUS

ARIZONA: SPATIAL HYBRID CORE
FLORIDA: SPATIAL BIOLOGY CORE
MINNESOTA: SPATIAL MULTIOMICS CORE

Service Lines

Specimen Processing

Providing researchers with access to specimen processing and storage in world-class biorepositories.

Biomolecular Analysis

High-complexity cores offering top-of-the-line omics and spatial biology research support to turn tissues, cells, and biofluids into multi-omic, spatially resolved, and clinically relevant readouts.

Molecular Development

Building and testing the mouse and cell line models needed to advance basic science research, clinical research and laboratory medicine aspects of patient care.

Structural Testing & Imaging

From subcellular to whole-organism visualization and measurement, these services produce high-quality images and quantitative outputs that anchor pathology, spatial biology, and preclinical studies.

Programmatic Capabilities

Biospecimen Operations & Logistics

Biorepository and tissue logistics across campuses: study setup guidance and kit building, compliant accessioning, manual & automated aliquoting, PBMC processing, nucleic-acid extraction options, curated storage (LN₂, robotic, non-robotic), retrievals and returns, and shipping coordination.

Histology & Pathology

Human and non-human tissue processing that enables high-quality downstream analyses: Sectioning, TMA assembly, H&E, IHC/IF and specialty stains, digital slide scanning, and pathology support. Supporting biorepository, spatial, genomics, and proteomics pipelines.

Research Model Development

Options for building and testing research models: in vivo genome engineering (CRISPR, transgenesis with validated founders, colonies), advanced cell systems (iPSC reprogramming, directed differentiation, organoids, co-cultures), and genetic screening & engineering using CRISPR approaches. Designed for seamless handoffs to omics, spatial, imaging, and pharmacology endpoints.

Cytometry & Cell Analytics

Full support for analytical flow cytometry and cell sorting, including panel design, optimization and post-sort QC, with both conventional and full-spectrum options at all campuses.

Proteomics & Multiomics

Discovery and targeted workflows—DIA, TMT (multi-plex discovery & phospho), targeted mass-spectrometry quantification (PRM/SRM), immunopeptidomics, and PTM mapping, with options for low-input, single-cell, and spatially guided proteomics from precisely prepared ROIs.

Genomics & Single-Cell Sequencing

A range of next-generation sequencing, gene expression, genotyping and DNA methylation applications, including whole-genome and targeted DNA/RNA-seq and single-cell multiomics, planned so library chemistry, run configuration, and downstream analysis match your study's questions.


Spatial Biology & Tissue Profiling


Highly multiplexed single-cell imaging and ROI-based profiling for RNA/protein, plus high-definition spatial gene expression, tightly aligned with histology for morphology and ROI selection, and with molecular platforms for orthogonal validation. Integrated spatial biology options link molecular signals back to tissue context.

Advanced Imaging & Microanalysis

Optical and electron (SEM, TEM, Cryo) microscopy with consultative support for sample-to-image workflows and quantification along with expert image analysis and 3D visualization; integrated with model development, histology, and molecular endpoints.

MAYO CLINIC RESEARCH
CORE FACILITIES

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