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# BIOBANKS

LABORATORY SERVICES STORAGE SERVICES BIOBANKS BIOETHICS & GENETIC COUNSELING



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MAYO CLINIC  
**BIOSERVICES**

Our mission: To provide world-class Biorepositories and state-of-the-art Biospecimen Processing and Storage with a focus on quality and service.

The Mayo Clinic Biobank is a collection of samples, including blood and blood derivatives, and health information donated by volunteers. Unlike many biobanks in existence, the Mayo Clinic Biobank is not focused on any particular disease. Rather, the Biobank collects samples and health information from patients and other volunteers regardless of their health history. Once a participant becomes a part of the Biobank, he or she becomes a part of ongoing health research.

The Biobank was established at Mayo Clinic in Rochester, MN, and recruitment began in April 2009. Since then, the Biobank has expanded to Mayo Clinic in Jacksonville, FL, and the Mayo Clinic Health System. The Biobank has enrolled 50,000 Mayo Clinic patients to support a wide array of health-related research studies.

Biological samples available on each participant include DNA, serum, plasma (including platelet-poor plasma) and an aliquot of frozen white blood cells. Data are available from the electronic medical record (e.g., medications, diagnoses, laboratory tests, and administrative data) and from patient-provided information on current health, family health history, and various important factors known to confer risk for disease.

#### TYPES OF SAMPLES COLLECTED

- > Three 10 mL EDTA tubes (for DNA, buffy coat, plasma)
- > One 10 mL no additive (for serum)
- > One 4.5 mL sodium citrate (for plasma)

For a subset of subjects (approximately 3,500):

- > One 6 mL sodium heparin tube (for slow freezing)

#### REVIEW CRITERIA AND GOVERNANCE

Applications are reviewed by the Biobank Access Committee based upon these criteria:

- > Scientific excellence
- > Alignment with institutional goals
- > Potential to improve patient care
- > Number of subjects and amount and type of sample requested
- > Overlap with active projects
- > Samples are provided for specific uses and any change in the project must be approved by the Access Committee
- > Data generated from the use of Mayo Clinic Biobank samples will generally be returned to the Biobank for potential future use; exceptions to this must be justified

#### THE MAYO CLINIC CANCER SERUM BANK

The Cancer Serum Bank includes ~130,000 frozen vials of serum from ~17,000 unique Mayo patients (~24,000 blood draws) representing 85 different malignant and benign conditions collected between 1975 and 1990. From 1975 to 1990, the National Cancer Institute (NCI) and the Mayo Clinic developed a cancer serum bank at the Mayo Clinic. These serum specimens were sent to the NCI but are now back at Mayo Clinic in Rochester, MN, and are available to researchers.

#### CONTACT US

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