

UNIVERSITY OF MARYLAND MEDICINE (UMM) BIOREPOSITORY

CIBR: Center for Innovative Biomedical Resources

MAJOR EQUIPMENT

Hamilton Biorepository (BiOS) Freezer System

- state-of-the-art automated, ultra-low temperature (-80°C) freezer system
- equipped to accommodate over 945,000 biospecimens



MISSION

The objective of the UMM Biorepository is to provide standardized handling and secure storage of biospecimens in a cost-effective manner in order to support high quality research that empowers discoveries in genomics and other 'omics' science and facilitates translation of these discoveries to more effective diagnostics and therapeutics.

ABOUT

The UMM Biorepository is a resource building effort that includes banking of blood samples from UMMS patients as well as collections of various biospecimens from collaborating UM researchers. State-of-the-art robotic freezer and liquid-handling equipment offers a secure and managed environment for biospecimen processing, storage and distribution. Data connected to the samples is obtained through the electronic health record and/or study-specific data collection, allowing for multi-disciplinary research that can impact a range of health issues.

CORE SERVICES

Laboratory

- Sample processing & banking
- DNA/RNA extraction & banking
- Short- and long-term sample storage (room temperature, 4°C, -20°C, -80°C & vapor phase liquid nitrogen)
- Inventory management and sample retrieval
- Shipping to outside laboratories

Clinical Research Support

- IRB protocol preparation assistance

BIOREPOSITORY USER BENEFITS

- "Outsourced" management of biospecimen banking functionalities
- Regulated, secure environment for biospecimen processing, storage & distribution
- 24/7 sample monitoring
- Standard operating procedures for sample processing, storage & distribution
- Detailed biospecimen annotation, tracking & reporting
- Dedicated, expert staff

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MAJOR EQUIPMENT (CONT.)

Microlab chemagic STAR liquid handling system (Hamilton)

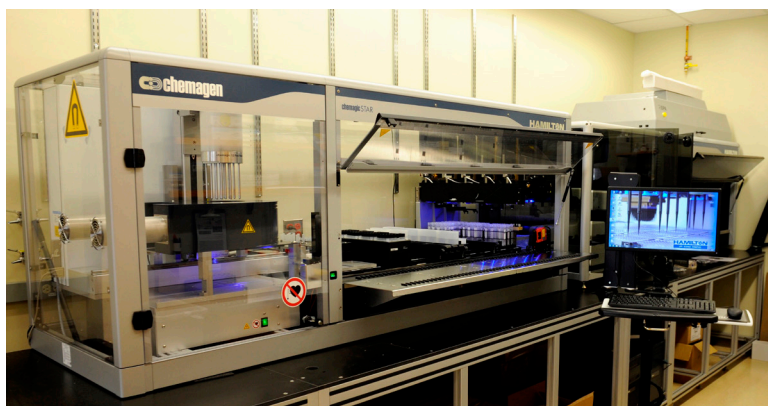
- DNA/RNA extraction

Chemagic 360 (Perkin Elmer)

- DNA/RNA extraction - high throughput, low volume samples

Microlab STAR liquid handling system (Hamilton)

- Sample aliquoting and set up specific assays using retrieved samples



CONTACT



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[http://medschool.umaryland.edu/cibr/
UMM_Biorepository](http://medschool.umaryland.edu/cibr/UMM_Biorepository)