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 900,000 biospecimens

MISSION

The objective of the UMM Biorepository is to provide the resources and support for large-scale studies to empower basic and clinical researchers to make discoveries in genomics and 'omics' science and to translate 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
- Sample storage
- Sample retrieval

Clinical Research Support

- IRB protocol preparation assistance
- Consenting
- Phlebotomy/sample collection
- Survey administration

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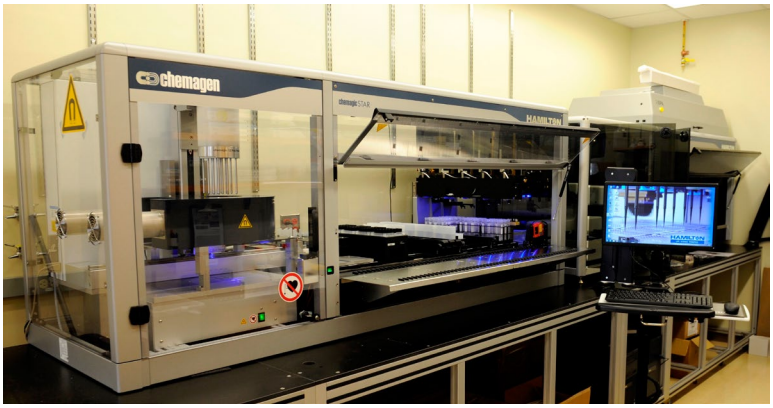
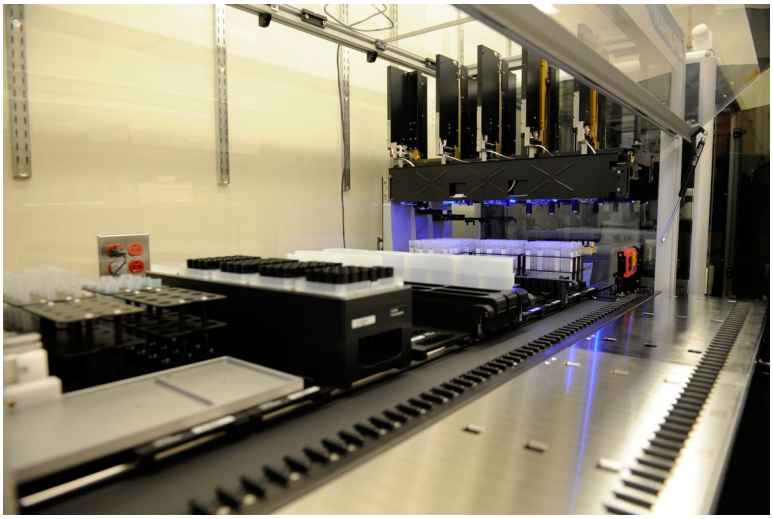
MAJOR EQUIPMENT (CONT.)

Microlab chemagic STAR liquid handling system (Hamilton)
- DNA/RNA extraction

Microlab STAR liquid handling system (Hamilton)
- Sample aliquoting and set up specific assays using retrieved samples





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