The University of Michigan Biorepository for Understanding Maternal and Pediatric Health (BUMP) has an active study in the Central Biorepository, a unit of the UMMS Office of Research that facilitates discovery and improves healthcare outcomes by providing high-quality, highly annotated biospecimens donated for basic, clinical, and translational research.

The Central Biorepository receives biospecimens and data from U-M contributors and collaborators across a spectrum of medical research. Samples from Michigan Medicine patients are securely linked to MiChart data through the Research Data Warehouse.

**TYPES OF BIOSAMPLES**

**First and Second Trimesters:**
- **Maternal blood** — plasma, PAXGene DNA, PAXGene RNA
- **Maternal urine**

**Labor and Delivery:**
- **Maternal blood** — plasma, PAXGene DNA, PAXGene RNA
- **Maternal urine**
- **Cord blood** — plasma, PAXGene DNA, PAXGene RNA
- **Placenta** — paraffin embedded with H&E slides

**POPULATION**

600+ total participants and counting! Currently enrolling pregnant women receiving obstetric care at Michigan Medicine Von Voigtlander Women’s Hospital.

**PREGNANCY BIOBANK BIOSPECIMENS COUNT**

Clinical data also available through secure links to Electronic Health Records (EHR).
CENTRAL BIOREPOSITORY SPOTLIGHT

ACCESS
The Central Biorepository enables access to the hundreds of available Biorepository for Understanding Maternal and Pediatric Health (BUMP) from Michigan Medicine patients and offers secure linkage to laboratory and clinical data offered by the Data Office.

Get started:
- Search the Obstetrics and Gynecology cohort on the self-serve tool, DataDirect.
- Complete and submit a CBR Use Proposal Form available on research.med.umich.edu/biorepository and send to CBR.requests@umich.edu.
- With IRB and oversight committee approval, datasets can be downloaded.

The Central Biorepository is an enterprise-wide resource, serving all members of the University of Michigan community, and operates as a recharge unit. Services are subsidized by the UMMS Office of Research.

LEARN MORE ABOUT THE CENTRAL BIOREPOSITORY
research.med.umich.edu/biorepository

The BUMP study aims to store biological samples obtained from human pregnancies and to provide a mechanism to link these specimens to health information for research projects. Potential research projects include those that are currently operating through other enrollment and collection mechanisms, as well as future work that is not yet planned. The team takes advantage of the large clinical volume of normal and complex pregnancies to obtain samples from varying points in pregnancy and the immediate postpartum period. The biorepository will provide a mechanism to link the biospecimens with health information so that it can later be shared with researchers to help advance maternal, fetal, and pediatric medicine.

LEARN MORE ABOUT THE BIOREPOSITORY FOR UNDERSTANDING MATERNAL AND PEDIATRIC HEALTH
research.medicine.umich.edu/our-units/central-biorepository/
get-access/contributing-research-programs

*Access requests are subject to the approval of the program-specific Oversight Committee, as well as the appropriate regulations and IRB approvals. Whenever possible, the Central Biorepository and the Data Office deliver a final coded dataset without any direct identifiers.

“ My patients are often surprised by how little we understand about the science of pregnancy, birth, and fetal development. The Michigan Medicine OB Biorepository is an amazing resource that provides the biological samples and medical data that we can use to become leaders in the science of supporting mothers and newborns.

Elizabeth Langen
Assistant Professor of Obstetrics and Gynecology, Medical School