The Biomolecular Laboratory
at the University of Rochester
School of Nursing

Advance Your Research with
Dried-Blood Spot (DBS) Analysis
Reliable  ■  Convenient  ■  Affordable

Contact Us
The Biomolecular Laboratory is located on the fourth floor of the University of Rochester School of Nursing’s Helen Wood Hall. To learn more about the Lab and its services, contact:

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Partner With Us To Get Results

The state-of-the-art Biomolecular Laboratory within the University of Rochester School of Nursing provides comprehensive, reliable Dried-Blood Spot (DBS) analysis that gives multidisciplinary investigators powerful, reliable biomarker data to inform and advance their work. DBS analysis is a minimally-invasive, cost-effective method that enables scientists to retrieve biomarker information from a single drop of blood. The lab also provides consultation and support to scientists in sample collection and interpretation.

“...I knew about the advances in Dried-Blood Spot analysis, and very much needed to use this technology to include new biomarkers as the next vital step in my research. The availability of this lab supports scientists toward meaningful, new discoveries.”

- Susan W. Groth, PhD, WHNP-BC, FAANP, associate professor of nursing

Why Dried-Blood Spot (DBS) Analysis?
A powerful way to elevate your research

- Samples can be collected by non-clinical staff in a non-clinical setting, making it easier to collect from large, more diverse and representative populations
- Reliable DBS technology and analysis opens up exciting new ways to integrate biomarkers into behavioral research and enables scientists to gain a deeper understanding of the pathways of disease
- Molecular biomarkers give investigators information about the presence, progression and risks of human diseases and conditions, and have multiple applications in population-based, epidemiological research
- Samples are easy to transport, and can be shipped at ambient temperatures through regular mail service
- Multiple measurements can be taken from the same set of samples. Long-term high-grade freezer storage ensures the integrity of samples
- Collection is less costly than obtaining venous blood samples

A convenient, less-painful method for your study participants

- Sample collection requires a virtually painless, one-time finger prick in contrast to numerous venous blood draws
- There is no need for study participants to travel to phlebotomy labs; DBS collection can be done by study staff or participants themselves wherever it is convenient

What We Offer

- Expert consultation on the best methods of DBS sample collection and storage (based on populations and research focus), study goals, necessary applications, and cost
- Protocols for analytes HbA1c, total cholesterol, triglycerides, interleukin-6, interleukin-1 beta, C-reactive protein
- Creation of new assays as requested
- Reliable, comprehensive data analysis of collected samples
- Assistance and support with data interpretation
- A finalized dataset of biomarkers upon completion
- Availability of a molecular scientist for ongoing questions and support
- Long-term, secure, freezer storage of samples for future analysis

Comparison Venous Blood to Dried-Blood Spot Results

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