

OFFICE FOR NURSING RESEARCH LABORATORY TESTING SERVICES

THE OFFICE FOR NURSING RESEARCH, PART OF THE UNIVERSITY OF WASHINGTON SCHOOL OF NURSING, HELPS RESEARCHERS BUILD COMPETITIVE PROJECTS, GRANTS AND MANUSCRIPTS.

The UW School of Nursing Office for Nursing Research (ONR) has begun offering its laboratory testing services more widely, allowing researchers within the UW system and throughout the United States to access renowned UW School of Nursing expertise.

ONR is proud to support all investigators who share our goal of enhancing research and advancing science through interprofessional work. The ONR team offers technical advice and can perform experimental analytical components of research projects in the UW School of Nursing laboratories.

LABORATORY TESTING SERVICES INCLUDE:

REAL-TIME POLYMERASE CHAIN REACTION (PCR)

Applied Biosystems 7300 RT-PCR instrument and analysis platform are available for allelic determination and SNP studies.

SINGLE ANALYTE AND MULTIPLEX ENZYME-LINKED IMMUNOSORBENT ASSAYS (ELISA)

A number of immunologic tests are offered, using commercially available enzyme immunoassay (EIA) kits which detect antigens obtained from a variety of sample types (e.g., serum, plasma, and urine). Our primary focus is on assays involving urine and saliva (e.g., cortisol and melatonin). In addition, EIA is used to assay for Cytokine production and expression in both stimulated and unstimulated cell conditions, as well as assays involving blood products.

PROTEIN ANALYSIS

The team uses the GE Healthcare DIGE protein analyzer in order to view protein expression arrays obtained from immunological sources and presented as a 2D image.

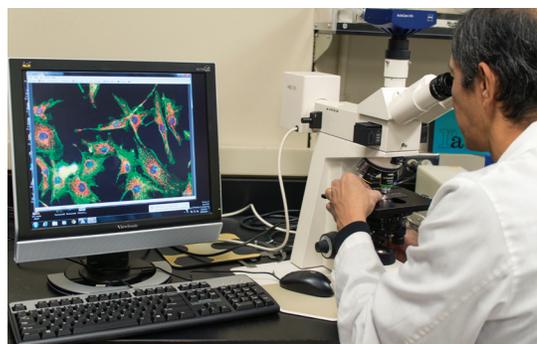
ACTIGRAPHY/HEART RATE VARIABILITY ANALYSIS

The team can provide instrumentation (Actiwatches) and analytical tools in determining both heart rate variability and actigraphy as alternative techniques, which can also be used in correlation with patterns obtained from polysomnologic data.

OTHER SERVICES

Sample quality assessment/quality control (QA/QC) is available.

Consultation on project design and biochemical analysis is available upon request.



MEET THE LABORATORY TESTING SERVICES MANAGER

Ernie Tolentino, M.S., is the manager for Laboratory Testing Services. Tolentino has more than 10 years of experience managing the biological laboratories in the UW School of Nursing.

Tolentino and his team perform between 4,000 and 6,000 assays a year in one of five areas: immune function, biochemistry, molecular genetics, physiologic testing and sleep analysis. His expertise covers biochemical assays, sample preparation/collection methods and analysis (obtained from spectrophotometric data and PCR plate arrays). The team also provides heart rate variability and actigraphy scoring.

“The lab has expertly processed samples of blood and saliva from my research activities. The Biobehavioral Lab team is fully supportive of the work from initial consultation to data analysis.”

HILAIRE THOMPSON

UW professor of nursing and one of the lab's frequent customers. Thompson's studies using the lab have included those focused on inflammation, immune function, stress and circadian rhythm disturbances.



For more information about laboratory testing services, contact Ernie Tolentino at etolenti@uw.edu or visit nursing.uw.edu/research.

ABOUT THE OFFICE FOR NURSING RESEARCH

The Office for Nursing Research is part of the UW School of Nursing and supports the school's research mission through consultation, grant and laboratory services. ONR has a long history of collaborative research. The ONR team has been recognized in scientific publications for providing the highest quality data possible.

ABOUT THE UW SCHOOL OF NURSING

The University of Washington School of Nursing is dedicated to educating the next generation of nurse leaders, advancing nursing science and improving the health of communities locally, regionally and globally.