

## Test Menu

The Warren G. Sanger Human Genetics Laboratory provides more than 130 diagnostic tests for multiple areas of genetic health: prenatal and pregnancy loss, postnatal (pediatric and adult) and hematology/oncology. Comprised of more than 40 individuals, our team includes directors board-certified by the American Board of Medical Genetics and Genomics (ABMGG), technologists certified in cytogenetic and molecular biology and a licensed and certified genetic counselor.

### CHROMOSOME ANALYSIS

### FLUORESCENCE *IN SITU* HYBRIDIZATION (FISH) ANALYSIS

### MICROARRAY ANALYSIS

### METHYLATION ANALYSIS

Of chromosomes 14 and 15

### MALE INFERTILITY PANEL

Includes chromosome analysis and  
Y chromosome microdeletion (YCMD) analysis

## Laboratory Counselors

In the increasingly complex field of genetic diagnostic testing, genetic counselors serve as a vital link between the laboratory and the clinician. Our laboratory team includes a licensed and board-certified genetic counselor to assist providers and their patients in the following ways:

- Recommend indication-specific testing strategies
- Request additional clinical information for improved analysis and result interpretation
- Notify providers of urgent results
- Discuss test results and pertinent management issues with ordering providers

### Warren G. Sanger Human Genetics Laboratory

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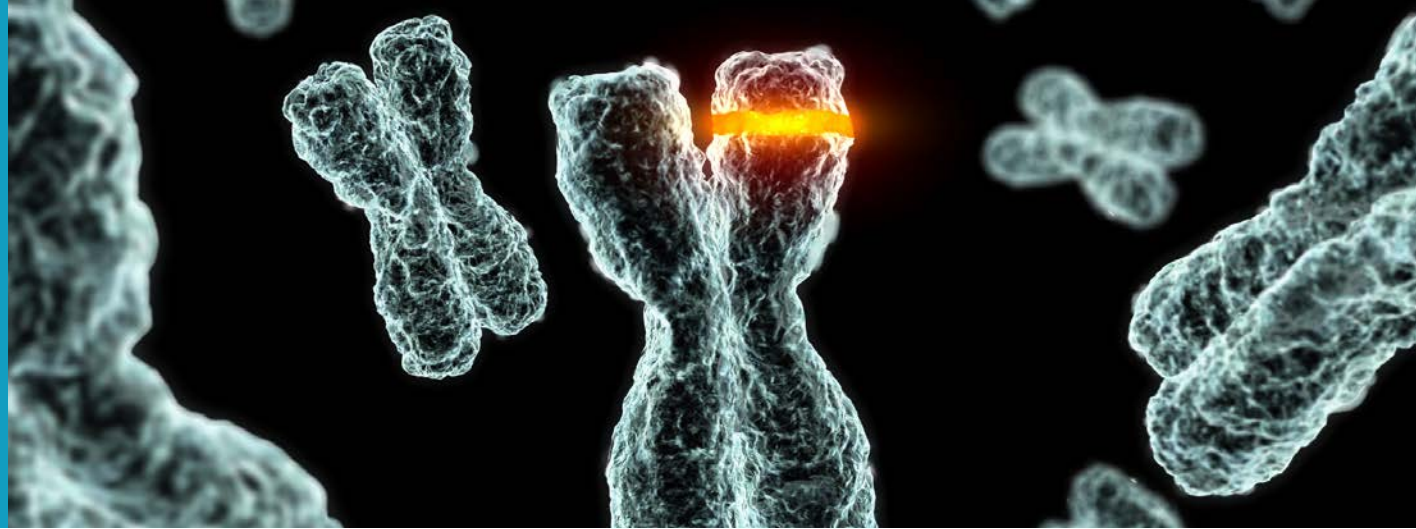


## Warren G. Sanger Human Genetics Laboratory



The Warren G. Sanger Human Genetics Laboratory is a College of American Pathologists (CAP) accredited and Clinical Laboratory Improvement Amendments (CLIA) certified full-service cytogenetics and molecular genetics laboratory specializing in both constitutional and acquired disorders.

We make it our mission to be leaders in providing exceptional genetic testing and interpretation for patients, families, and communities we serve through extraordinary patient care, premier educational programs, and innovative research.



## Education and Research

Our laboratory is committed to genetic education through participation in critical training opportunities including:

- Resident and fellow rotation
- Graduate courses
- Clinical laboratory fellowship
- Cytogenetics conference
- Summer student program

Our laboratory routinely collaborates on clinical, translational and basic research investigations encompassing various cytogenetic and molecular genetic techniques with colleagues within the University of Nebraska Medical Center community and around the globe. These collaborations have resulted in hundreds of national and international presentations and peer-reviewed publications.

## What is Genetic Testing?

Genetic testing detects changes in chromosomes, genes or DNA, depending on the suspected disorder. Identifying these changes can be helpful to establish a clinical diagnosis and/or to understand the prognosis of a particular condition. Prior to testing, health care providers can offer information about the benefits and limitations of genetic testing and possible outcomes of the test results.

### GENETIC TESTING MAY BE RECOMMENDED FOR THE FOLLOWING REASONS:

- To diagnose a genetic condition or syndrome
- To determine what may have caused an already diagnosed genetic condition or syndrome
- To identify individuals at risk for developing a genetic condition or syndrome
- To identify individuals who are carriers of a genetic disease, often for reproductive health reasons
- To help guide health care providers in offering the best treatments for an individual with a diagnosed genetic condition or syndrome

Genetic testing through our laboratory must be ordered by a health care provider. For many patients, pre- and post-test education with a genetic counselor or other qualified professional is helpful to better understand the genetic testing being performed and to discuss the implications of the test results for both themselves and, in some cases, for family members.

## Client Support

Laboratory staff is available for urgent after-hour needs. Patient specimens are accepted on all weekends and holidays.

- Complimentary specimen collection kits and paid shipping
- Insurance preauthorization services and billing
- Client billing and patient payment plan options
- Report interfacing capabilities