

The Hayward Genetics Center



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Endowed in 1978 by a grant from the John T. & Winfred Hayward Foundation, Tulane University School of Medicine's **Hayward Genetics Center** is a leader in Biochemical, Molecular, and Cytogenetics. With extensive experience in cancer genetic diagnosis (with an emphasis on blood malignancies), as well as pre- and perinatal diagnostics and screening, it offers the only true academic, full-service CAP-accredited and CLIA-certified genetics testing center in the region.

The center has a dedicated staff that includes two clinical geneticists, two genetic counselors and four laboratory directors and close collaborations with the Tulane OBGYN department and the Tulane Cancer Center. This enables a more efficient and rapid provision of a wide range of genetics services to health care providers both regionally and nationally – and offers over 40 years of experience in this essential part of medical science, diagnostics, and treatment.

Molecular Genetics

The Molecular Genetics Lab in the Hayward Center has supplied cutting-edge diagnostics to the Gulf South for over two decades. Established in 1993, this lab offers a range of services, including specific disease testing and panels of qPCR or second-generation sequencing analysis. Some specific offerings include:

- FISH analysis: common cancer mutations, Williams, and Kallman Syndromes, etc
- Methylation analysis: Angelman, Fragile X syndromes
- Microarray Analysis: high sensitivity chromosome analysis
- PCR-based Sequencing Studies for point mutations/epigenetics

Cytogenetics

The Cytogenetics Lab predates the foundation of the Hayward Center. Established in 1960, it is one of the most experienced labs dedicated to cytogenetic analysis in the country. It processes a high volume of tests on both prenatal samples and samples from oncology patients. The tests offered by the lab include:

Cytogenetics (cont.)

- FISH for aneuploidy
- Routine or high-resolution peripheral blood chromosomal analysis
- Cancer Chromosomal Analysis (stat and routine): mutations/epigenetics

Biochemical Genetics

The Biochemical Genetics Lab is a founding component of the Hayward Center, established over 40 years ago. It has served the Gulf South for diagnosis and management of newborn screening for inborn errors of metabolism. It remains the only biochemical genetics lab in the region, and is able to test for a variety of conditions, including:

- Biotinidase Deficiency
- Amino Acid Excretion in Plasma, Urine, or CSF (PKU, MSUD, etc)
- Galactosemia
- Congenital Disorders of Glycosylation

The Hayward Center: Expertise and Speed

As the longest-operating Academic Genetics Center in the Gulf South, the Hayward Genetics Center offers an unparalleled combination of experience, technical skill, and knowledge in genetic analysis. **Hans Andersson**, MD (Center Director) and his highly trained staff are available 24/7 for any questions, concerns, or consultations necessary.

In addition to expertise, the Center offers unequaled turnaround times in the region – and readily performs stat analysis for clinical sites, most notably Tulane’s own hematological malignancy and bone marrow transplant unit. The center works closely with this unit to ensure continuity of care for these patients – an exemplary level of service not found in larger population centers (*i.e.*: Houston). The Hayward Genetics Center is a valuable asset to the Gulf South, and more than capable of taking care of your genetics-related diagnostic project needs.

Contact & Further Info:

Hans Andersson
Director,
Hayward Genetics Center
handers@tulane.edu

Main Office
504.988.5101

Cytogenetics
504.988.2995

Biochemical Genetics
504.988.2993

Molecular Genetics
504.988.3934



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