

Our Services by the Numbers

40,000+ samples

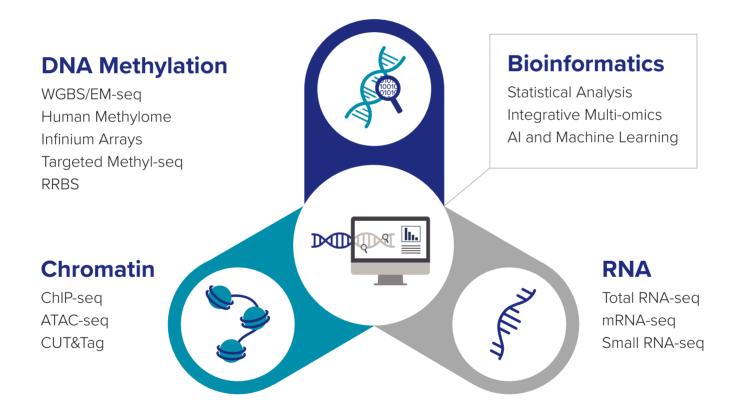
including liquid biopsies

250+ projects

Biotech & Pharma

600+ projects

Academia/Government/ Nonprofit Organization (NPO)



Our Service Laboratory Facilities:

USA: San Diego, CA CLIA environment*

Europe: Liège, Belgium

nts.

*Note: Epigenomic testing services are research use only and do not necessarily comply with all CLIA requirements.

Epigenomics Meets Diagnostics: Case-Studies

DNA Methylation in Liquid Biopsies: Overcoming Early Detection Challenges in Cancer

We leveraged our 20 years of epigenomic expertise to help Universal Diagnostics (UDx) develop a customized early-detection workflow for colorectal cancer (CRC), integrating liquid biopsies with DNA methylation technologies for biomarker discovery and validation.

Our Approach



Capturing Biomarkers in Real-Time with Liquid Biopsy

Using cell-free DNA isolated from plasma, biomarkers were monitored in real-time in the risk population.



DNA Methylation for Cancer Classification

Genome-wide methylation profiles from healthy and cancer patients were created to identify potential biomarkers.



Biomarker Validation

Once a pool of potential biomarkers was available, the best performers were identified.

"With the help of Hologic Diagenode's experts, we are developing blood tests that detect cancer in its earliest stages."

Kristi Kruusmaa, Chief Scientific Officer, Universal Diagnostics

Al and Epigenomics: Powering Biomarker Signature Identification

DNA methylation signatures are highly sensitive and specific, making them ideal for early detection, surveillance screening, and monitoring of minimal residual disease (MRD) for cancer and beyond.

Our Approach



DNA Methylation Profiling

Tissue-specific and cancer-specific DNA methylation profiles can be found in previously published and publicly available databases or via genomewide *de novo* analyses, such as our WGBS/EM-seq, Human Methylome and EPIC array.



Al and Machine Learning (ML)

Biomarker signatures can be identified bioinformatically using Al and ML analysis approaches.



Biomarker Validation

Biomarkers could then be validated on an independent cohort, publicly available or via new data generated from our custom Targeted Methyl-seq.

HOLOGIC Diagenode

Learn more about our services: www.diagenode.com

