



FIRALIS

Molecular Precision

**BIOMARKERS SOLUTIONS FROM
DISCOVERY TO CLINICAL
QUALIFICATION**

HTG EdgeSeq technology

www.firalis.com

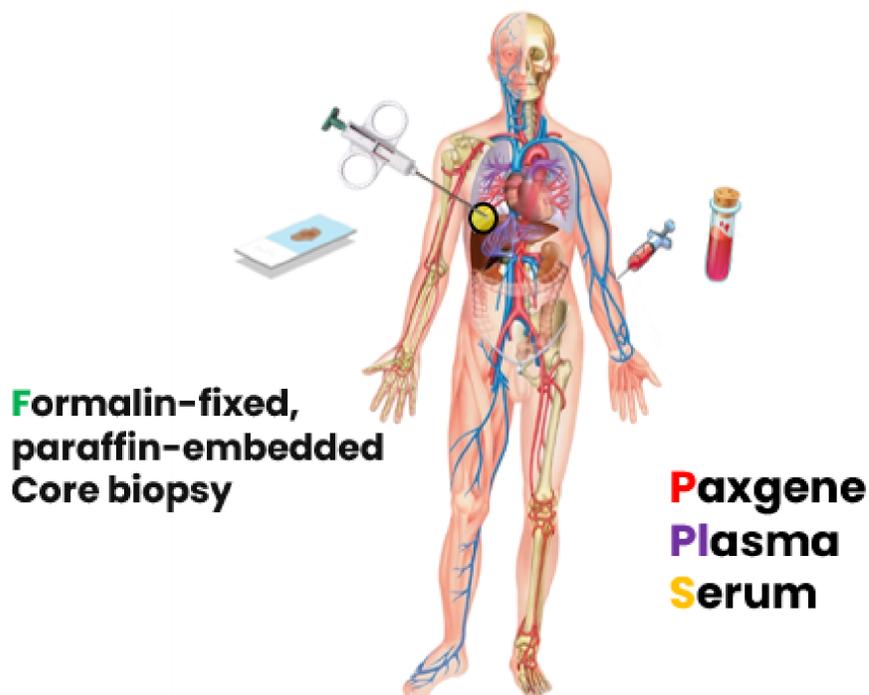




If you have low volume of precious samples and you want to detect and explore a large panel of miRNAs on them, HTG Technology is made for you !

- Firalis molecular precision is the reference lab for HTG Molecular in Europe.
- This technology is a combination of nuclease protection assay (qNPA) and next generation sequencing for **targeted sequencing** to provide accurate and sensitive measurement of gene expression.

Applicable on a wide panel of biological matrices.



HTG
QUALIFIED
SERVICE PROVIDER

-  Extraction-free chemistry
-  Reduced sample input
-  Eliminates biases associated with DNA/RNA extraction, size selection, cDNA synthesis, and adapter ligation.
-  High sensitivity of the next generation sequencing



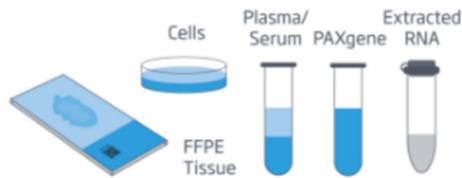
HTG EdgeSeq miRNA Whole Transcriptome Assay

The HTG EdgeSeq miRNA Whole Transcriptome Assay (miRNA WTA) enables users to measure the expression of 2,083 human miRNA transcripts using next-generation sequencing (NGS). The HTG EdgeSeq chemistry is compatible with fixed tissue samples, biofluids, and cell lines.



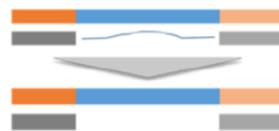
HTG EdgeSeq technology in 5 Steps.

1. Sample preparation



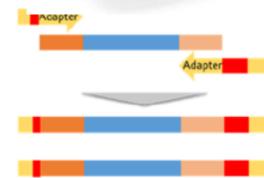
- Small sample input amount
- Lysis only chemistry
- No nucleic acid extraction

2. Library preparation



2a. Target Protection

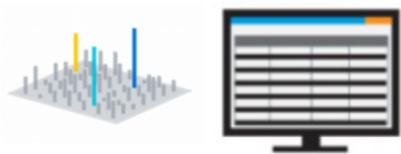
- Fully automated
- Nuclease protease assay
- Up to 96 samples / plate



2b. Library amplification

- Add barcodes and adaptators
- 16 PCR Cycles

5. Data Analysis



HTG parser

- Data parsing
- On FastQ files
- Up to 2500 targets

4. Sequencing



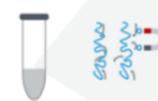
Next Generation Sequencing

- Illumina NextSeq 500
- Up to 96 samples / run
- 1*50 bp

3. Library quantification & Normalization



3b. Library quantification QuBit Fluorometer 3.0



3a. Clean up

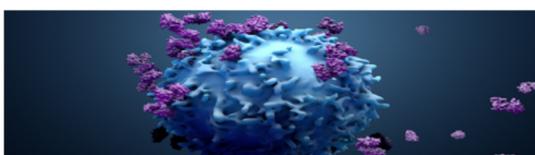
Library clean up to remove excess of primers

A wide variety of sequencing panel are available according to your projects.



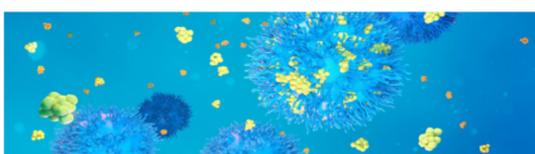
HTG Oncology Biomarker Panel

Comprehensive characterization of genes associated with tumor biology
2549 mRNAs



HTG Precision Immuno-Oncology Panel

Characterize tumor microenvironment and immune response
1392 mRNAs



HTG Immune Response Panel

Analyze genes associated with immune response to infection and AI diseases
2002 mRNAs



HTG Mouse mRNA Tumor response Panel

Analyze genes associated with Oncology, Immunology and Inflammation
1659 mRNAs



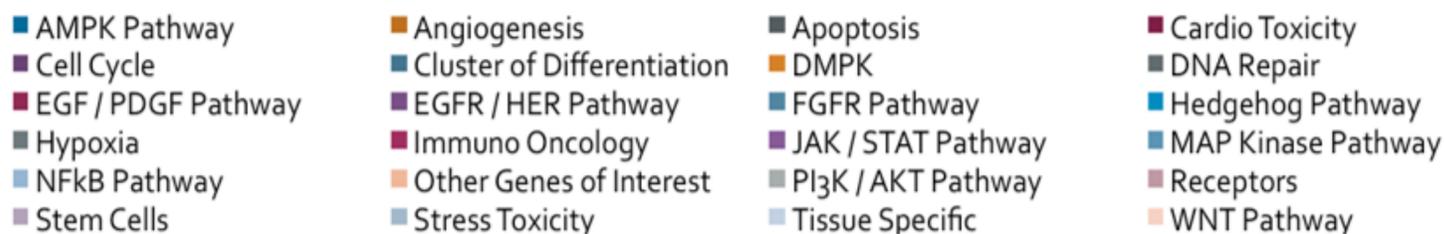
HTG Transcriptome Panel

Comprehensive analysis of the human mRNA transcriptome
19396 mRNAs



HTG Technology combined with Firalis molecular precision exceptional quality standards leads to very reproducible results.

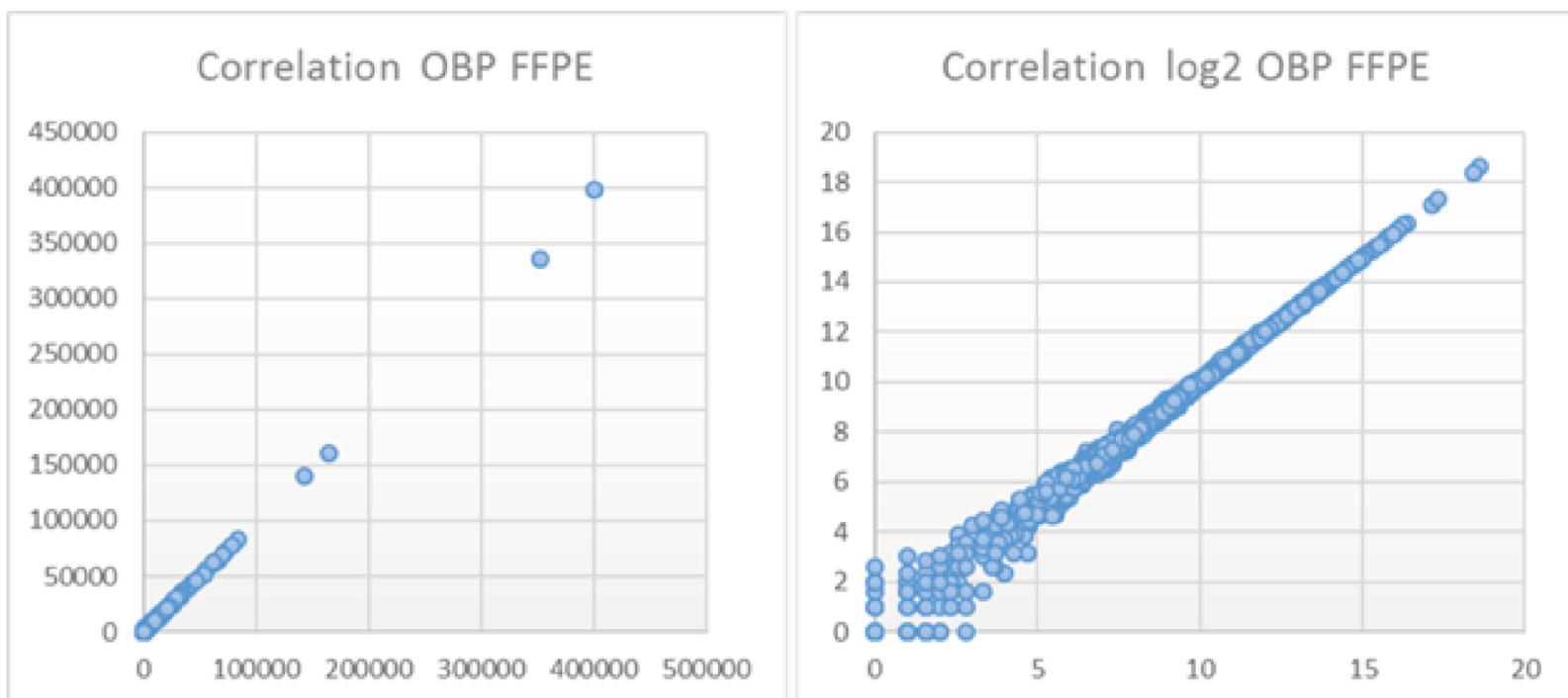
Example on HTG EdgeSeq **Oncology Biomarker Panel**



Sample inputs

- Use slide-mounted sections (FFPE until 27 year old).
- Tumor percentage of 70% or greater is ideal.

Reproducibility on successive FFPE slices.



Excellent reproducibility is observed for a wide dynamic range on independent experiments performed on successive Formalin-fixed, paraffin-embedded Core biopsy.

FIRALIS MOLECULAR PRECISION

Firalis molecular precision is a biotechnology company with a mission to improve disease outcome, therapeutic decisions and generate savings in healthcare through biomarker discovery, development and regulatory qualification that ultimately leads to biomarker-based diagnostics. Firalis is active in the field of drug safety, cardiovascular, inflammatory, neurodegenerative and autoimmune diseases. The company has been awarded with several national and international prizes for its innovative approaches. Firalis Group is certified ISO 13485 (GMP compliant) and ISO 9001 for the development and production of CE-marked assays, certified NF S 96-900 for its biobank and accredited ISO 17025 (GCLP compliant) for testing laboratory.

To respect sharp requirements and satisfy the high demands of the pharma industry, we generate and deliver all data with cutting-edge technology platforms and in a complete quality environment certified for highest standards (ISO 9001, ISO 13845, ISO 17025 and NF S 96-900).

Contact us to start your study at sales@firalis.com