Genexpath

LymphoTranscript

For the detection of fusion transcripts

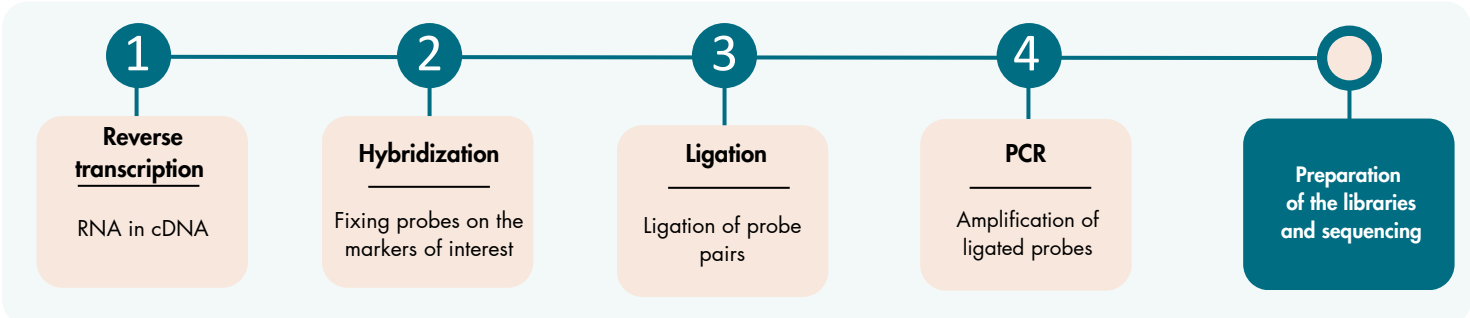
Genexpath's LymphoTranscript solution allows the identification of **fusion transcripts** associated with **peripheral T-cell lymphomas**.

The detection and quantification of these fusion transcripts are made possible by combining molecular biology and **high-throughput sequencing**. The data obtained is analyzed using our **RT-MIS** platform.

RT-MLPSeq - a simple and fast technique

The **LymphoTranscript** test uses the **RT-MLPSeq** method.

The multi-step *in vitro* test simultaneously evaluates a large number of **genetic markers** (chromosomal translocations and some mutations) using pairs of specific oligo-nucleotide probes for each of them.

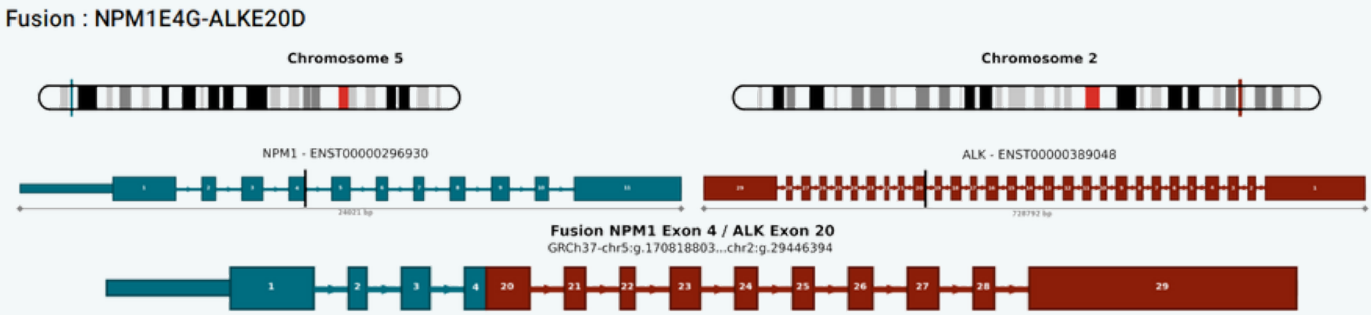


This *in vitro* test is associated to high-throughput sequencing that allows multiple samples and dozens of genes to be tested at the same time.

Post sequencing analysis using dedicated software

After sequencing, the **FASTQ** file is loaded onto the **RT-MIS** platform which carries out demultiplexing, identification and quantification of any fusion transcripts.

RT-MIS delivers a **report** in just a few minutes including the **detected fusion transcripts** and the **associated bibliography**.



Characteristics

- ½ day of manipulation
- Low RNA quantity needed
- Suitable for FFPE samples
- Sensitive thanks to short probes
- Increased specificity thanks to UMI
- Sequencing with other libraries possible
- 100 000 reads are sufficient
- Bioinformatic analysis included
- Access to complete raw data

Application domain	Fusion transcript detection		
Handling duration	≃4h before sequencing	Actual working time	≃1h-1h30
Type of samples	Fresh, frozen or fixed and paraffin-embedded tissue biopsies		
Input quantity	Between 50 and 500ng in a volume of 2µL		
Contents of the reagent kit	Probes targeting fusion transcripts, somatic mutations and HTLV1 virus, barcodes, sequencing primers		
Material compatibility	Sequencer Illumina®		

RUO *For research only.*

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