LymphoSign

For the classification of lymphomas

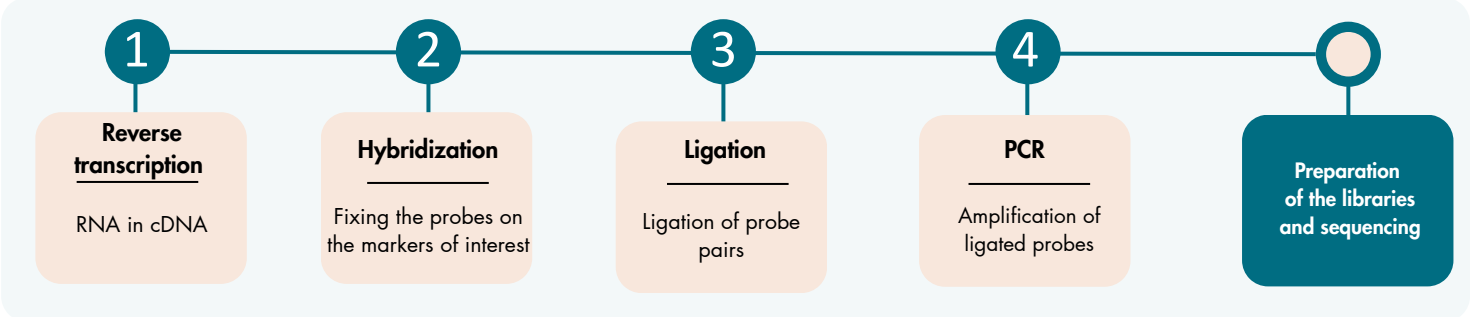
Genexpath's LymphoSign solution allows the characterization of non-Hodgkin lymphoma (NHL). It evaluates the degree of differentiation of tumor cells by analyzing the expression level of more than **130 relevant genetic markers**.

With an AI trained on a base of more than 3000 cases, the **RT-MIS** platform establishes the most probable classification between **13 subtypes of NHL B and T**.

RT-MLPSeq - a simple and fast technique

The **LymphoSign** test uses a semi-quantitative method: **RT-MLPSeq**.

The multi-step *in vitro* test simultaneously evaluates **genetic markers** (genes, mutations, chromosomal translocations, etc.) 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 performs demultiplexing, precise identification of gene expression markers and their quantification.

RT-MIS delivers in just a few minutes a **complete analysis** of sequencing results, from raw data (number of reads and Unique Molecular Identifiers (UMI) for each marker) to **classification**.

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	Gene expression		
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 of RNA in a volume of 2µL		
Contents of the reagent kit	Probes targeting 137 markers of interest, barcodes, sequence primer		
Material compatibility	Sequencer Illumina®		

CE IVD

In vitro diagnostic medical device according to Directive (EU) 98/79/EC
Please read the user manual before use.
For research only outside the European Union.

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