Background

Multiplicom is a Belgian biotech company that develops, manufactures, and commercializes molecular diagnostic assays provided as kits, enabling personalized medicine.
SLims Solution

Genohm has developed SLims, a laboratory informatics software that integrates LIMS + ELN features. This solution has been selected to manage the NGS activities of Multiplicom’s kits development.

SLims Content management module is required to support the management of the stock of primers in order to track availability and avoid costly duplicate orders/stock. In case of a bad primer lot, the solution must be able to look up all sequence runs that used this primer lot.

SLims is required to provide real-time updates about the status and contents of sequencing runs, including when a run is finished, what samples/assays are used in a run, and what other samples are readily available to scientists, lab technicians and bio-informaticians. This way a significant amount of time can be saved for everyone involved.

Ultimately, the platform must cover all NGS activities from assay design, quality control of libraries, execution of a sequencing run to kicking off the downstream analysis by the bioinformaticians. SLims handles it all.

SLims’ LIMS + ELN features support Multiplicom in the following ways:

- the SLims Content management module offers a way to track and trace stocks of every kind of lab material (e.g. primers, reagents, etc.).
- the ELN module offers a way to show a live overview of all sequence runs, linked together with information such as their status, used samples/assays etc.
- the ELN module guides the preparation of NGS assays with an easy to follow step by step protocol
- the ELN module guides the execution of every sequencing run through:
  - the generation of a sequencing sample sheet with validation checks (i.e. the used MIDs need to be unique)
  - newly generated FASTQ result files are automatically picked up from Illumina MiSeq instruments

About Genohm

Genohm is a Swiss company with offices in Lausanne (Switzerland), Ghent (Belgium) and in Durham, NC (USA). The company has developed SLims, a laboratory software automation suite. SLims provides laboratories with one integrated LIMS + ELN environment that tracks data and samples from the original sample shipment down to the result from lab machines and in-silico analysis pipelines. It fully accommodates the needs of any research lab, NGS lab, service facility, Biobank or QC lab.

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“SLims is the perfect Lab Companion for your NGS Lab”