AUTOMATED NGS-BASED HLA TYPING WORKFLOWS

GENDX

personalizing diagnostics

- Full and semi-automated NGS workflow, from amplification to sequencing
- Customized to your needs, minimize your hands-on time
- Compatible with all GenDx NGS-Based HLA typing workflows
- Sequencer independent solutions with all major automation providers

NGSgo AUTOMATION

Customization

HLA labs do have very different workflows, throughput and logistics. Therefore requirements for automation will differ, as assignment of resources will differ and some equipment might already be available. Automation of NGS workflows will therefore require customization as you need the best solution for your HLA laboratory.

Partnering with the best laboratory automation companies in the field enables us to support your automation needs for NGS-based HLA typing.

Automate your workflow

To kick off your NGS workflow automation, contact us today and we will explore your wishes and requirements for the best solution in your lab. Whether this means full automation from Amplification until Sequencing or just a couple of steps to relieve some lab work.

Contact

Contact our Technical Support Team if you like to explore your possibilities to automate your NGS-Based HLA typing workflow: support@gendx.com, or +31 30 252 3799



Solutions

Workflow	
Amplification	As our NGSgo workflow uses only 1 cycling protocol for all loci, automation of this first step is possible.
	For full automation a thermal cycler has to be included into the platform.
	Turn-around-time can be shortened by omitting gel electrophoresis and/or DNA quantification.
Library preparation	All steps of the library preparation: fragmentation, adapter ligation, DNA clean- up, indexing PCR, library pooling and library quantification can be automated.
	As some reagents are temperature sensitive the automation platform will need the ability to cool.
	For the indexing PCR (Illumina workflow) a thermal cycler should be included. Also the amplicon and library pooling can be fully standardized.
Clonal amplification & Sequencing	For both Illumina and Ion Torrent workflows these steps are performed by the respective sequencing instruments.
Automated data analysis	Data analysis is carried out by NGSengine, NGSignition will automatically start analysing your data when the run is finished.

Notes made here on implementation and adaptation of the workflow depend on individual situations and applications, they are only an indication and cannot be applied without consulting our Technical Support Team.

Automated workflows are For Research Use Only (RUO).

Automation Partners

- Hamilton
- Perkin Elmer
- Beckman Coulter
- TECAN

Technical Support

Our Technical Support team is at your disposal to answer questions about our products and protocols. They will gladly assist with providing training or taking a closer look at challenges in your generated data or help to set up the NGS workflow in your laboratory.

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