

GenDx launches NGS approach for chimerism monitoring

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Genome Diagnostics B.V., also known as GenDx, is now launching NGStrack® and TRKengine®, its newest RUO* marked reagents and software for chimerism monitoring by NGS (next generation sequencing). This method can be used as an alternative for the current conventional STR (short tandem repeat) technique, with NGStrack being significantly more sensitive. NGStrack provides reliable chimerism data, at both high and low percentages.

NGStrack makes use of 32 so-called indel markers to distinguish between donor and recipient, based on inserted or deleted DNA fragments. Together the 32 indels cover 362 distinctive nucleotide positions across 18 chromosomes, including X/Y chromosomes. Only minimal amounts of DNA are required from the pre-sample, since it only needs to be tested during the initial step of determining informative markers. This prevents a potential run out of pre-sample DNA during the monitoring phase.

TRKengine software interprets the informativity of the markers and quantifies the chimerism percentage in post-samples. Its use as data management system allows for insightful chimerism monitoring and trending over time.

The NGStrack markers overlap with the existing GenDx qPCR kits for chimerism monitoring (KMRtype® and KMRtrack®), therefore it is possible to use both methods in parallel. NGStrack reagents and TRKengine software are compatible with Illumina sequencing platforms. As such, NGStrack can easily be included in our renowned NGSgo® workflow that has been successfully used in HLA labs for many years.

Dr. Wietse Mulder, CEO of GenDx, commented: *“We are thrilled to offer these products to the market, enabling users to combine their routine NGS for HLA typing with chimerism monitoring. As of today, the field has the choice to replace conventional STR by a far more efficient and effective technique!”*

** Research Use Only*

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About chimerism monitoring

After transplanting stem cells from a donor to a recipient, a state of coexistence of cells can occur in the recipient. This so-called mixed chimerism can change over time and should be monitored. By performing chimerism monitoring, the percentage of cells from a donor and a recipient can be tracked over time. Since 2016, GenDx has been offering a qPCR product line for chimerism monitoring, including KMRtype and KMRtrack reagents and accompanying software KMRengine®. From December 2021, GenDx also offers an NGS-based product line to monitor chimerism: NGStrack reagents and TRKengine software. Visit our website for further information: www.gendx.com/product_line/ngstrack

About GenDx

Genome Diagnostics B.V., also known as GenDx, is a Dutch company, specialized in molecular diagnostics, focused on development, production and sales of innovative assays and analysis software for transplantation and companion diagnostics.

GenDx specializes in HLA sequencing-based typing strategies and offers reagents and software for both Sanger and NGS approaches. Additionally, GenDx offers post transplantation products for chimerism monitoring by qPCR and NGS. Thanks to its extensive in-house expertise, GenDx also offers custom laboratory services for basic and clinical research organizations. GenDx Education organizes dedicated

HLA sequence based typing and chimerism monitoring training courses worldwide on a regular basis for anyone working in tissue typing or research laboratories, blood banks, and donor registries.

GenDx is based at the Utrecht Science Park, the Netherlands and was founded in 2005 by Erik Rozemuller PhD, Wietse Mulder PhD and UMC Utrecht Holdings B.V. represented by Oscar Schoots PhD and Raoul Linschoten LLM. GenDx also has a USA-based office near O'Hare airport, Chicago, IL. In 2019, Ampersand Capital Partners completed a minority growth equity investment in the company. Recently Bob van Gemen has taken the position of independent board director. For further information go to www.GenDx.com.

GenDx Netherlands

Yalelaan 48
3584 CM Utrecht
Office: +31 30 252 3799
E-mail: info@gendx.com

GenDx Products Inc

5521 N. Cumberland Ave
Suite 1116
Chicago, IL 60656

Contact GenDx

Wietse Mulder PhD
CEO
Email: w.mulder@gendx.com
Phone: +31 30 252 3799

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