

GENDX

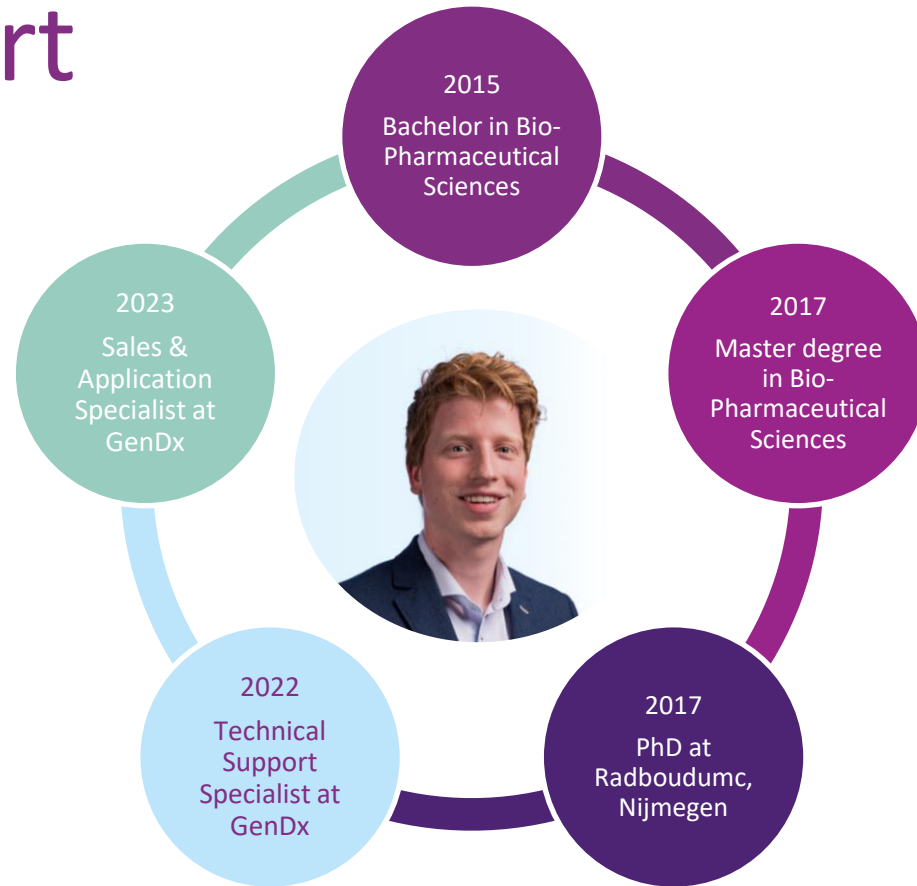


experts in transplant diagnostics

Working at GenDx, a diagnostics company

Daan 't Hart PhD- Sales & Application Specialist

Daan 't Hart



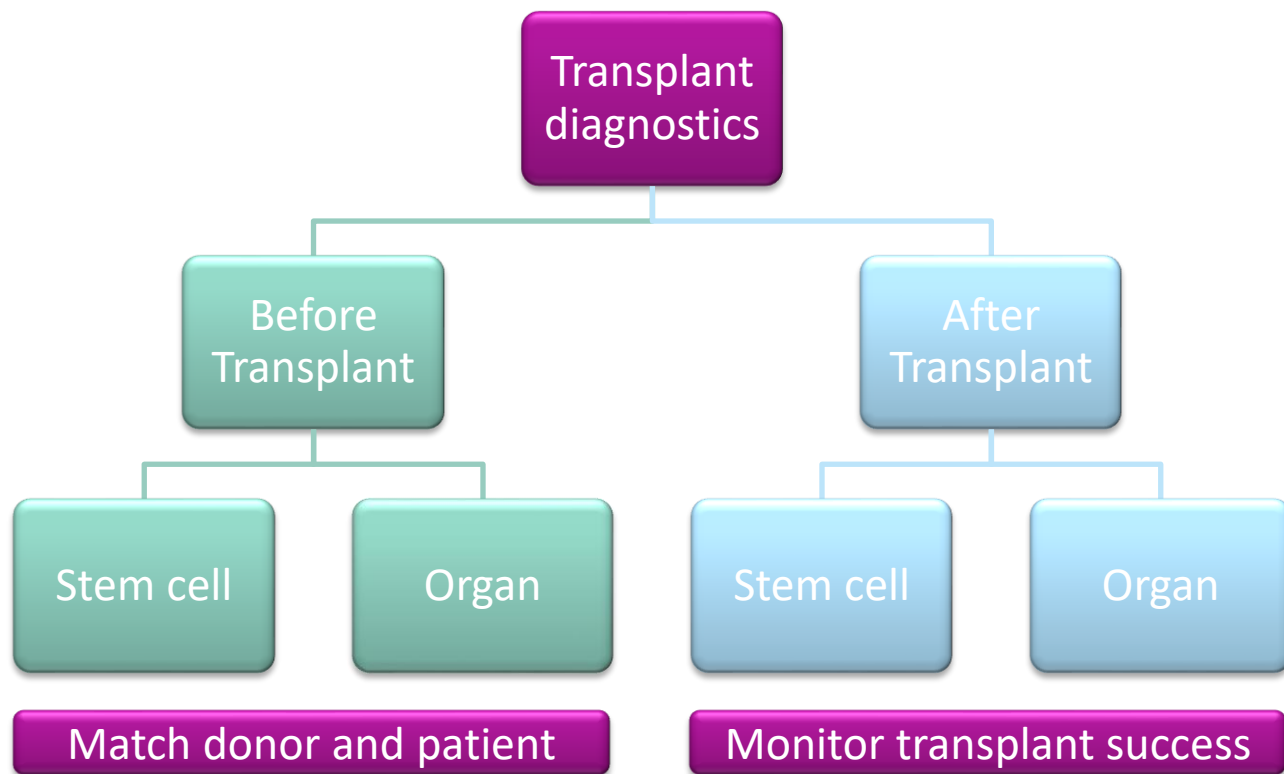
GENDX

experts in transplant diagnostics

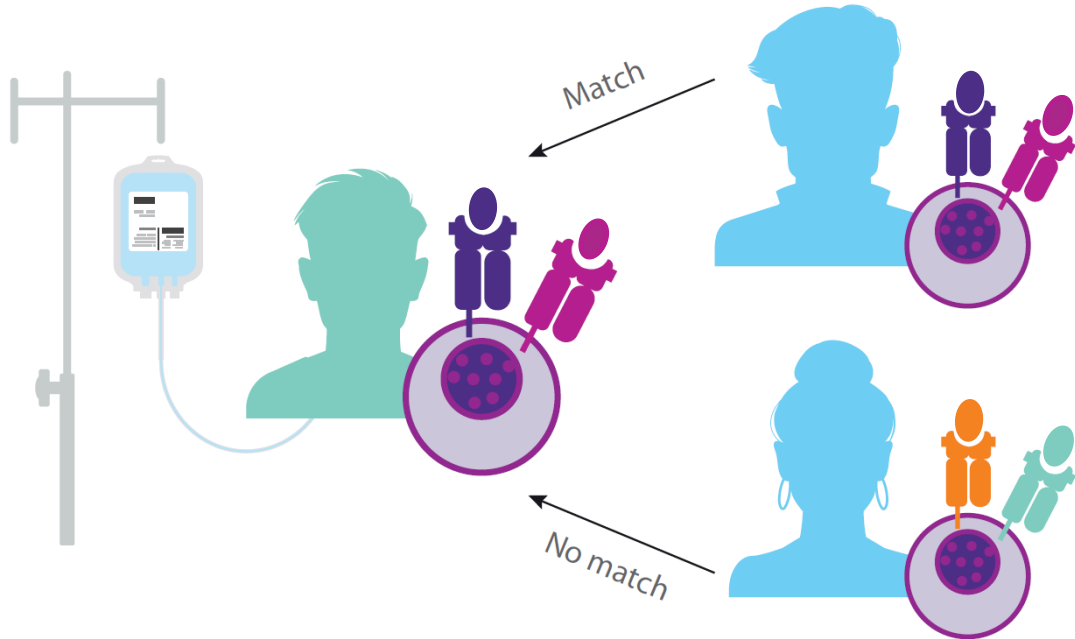
GENDX

experts in transplant diagnostics

It's all about HLA matching

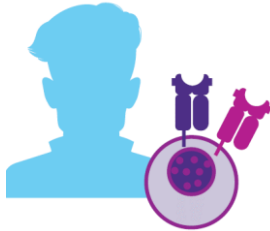


HLA matching



Human Leukocyte Antigen (HLA)

Cell-surface proteins



Encoded by HLA genes

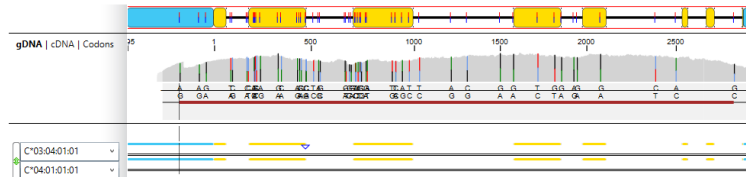


A, B, C, DR, DQ, DP



chromosome 6

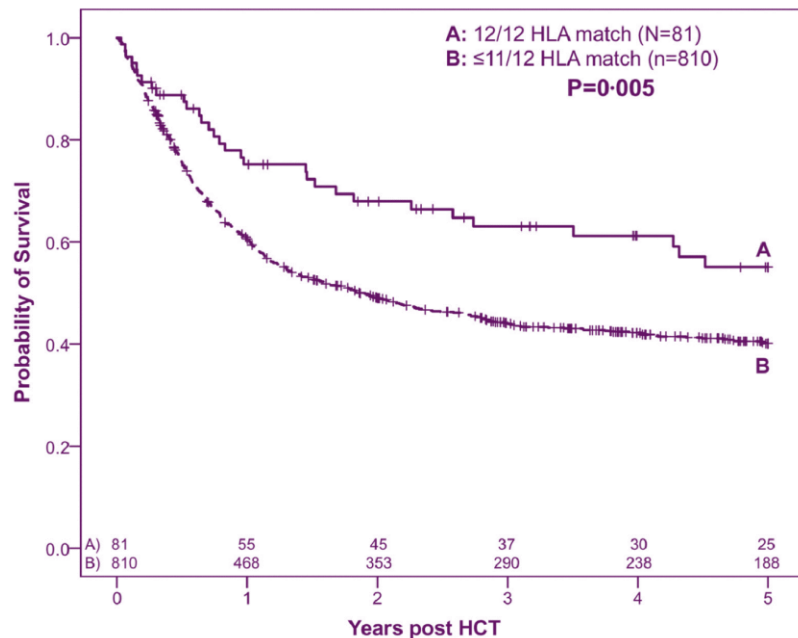
Find which HLA genes by sequencing



High genetic variation

A	B	C	DR	DQ	DP
7354	8756	7307	3904	2193	1909

Impact of HLA matching on survival



Patients with perfect match have better overall survival

Mayor NP et al. (2019) *Biol Blood Marrow Transplant.* 25(3):443-450

Products to find HLA match

Used by hospital laboratories

Amplification



Target HLA genes in DNA

Preparation

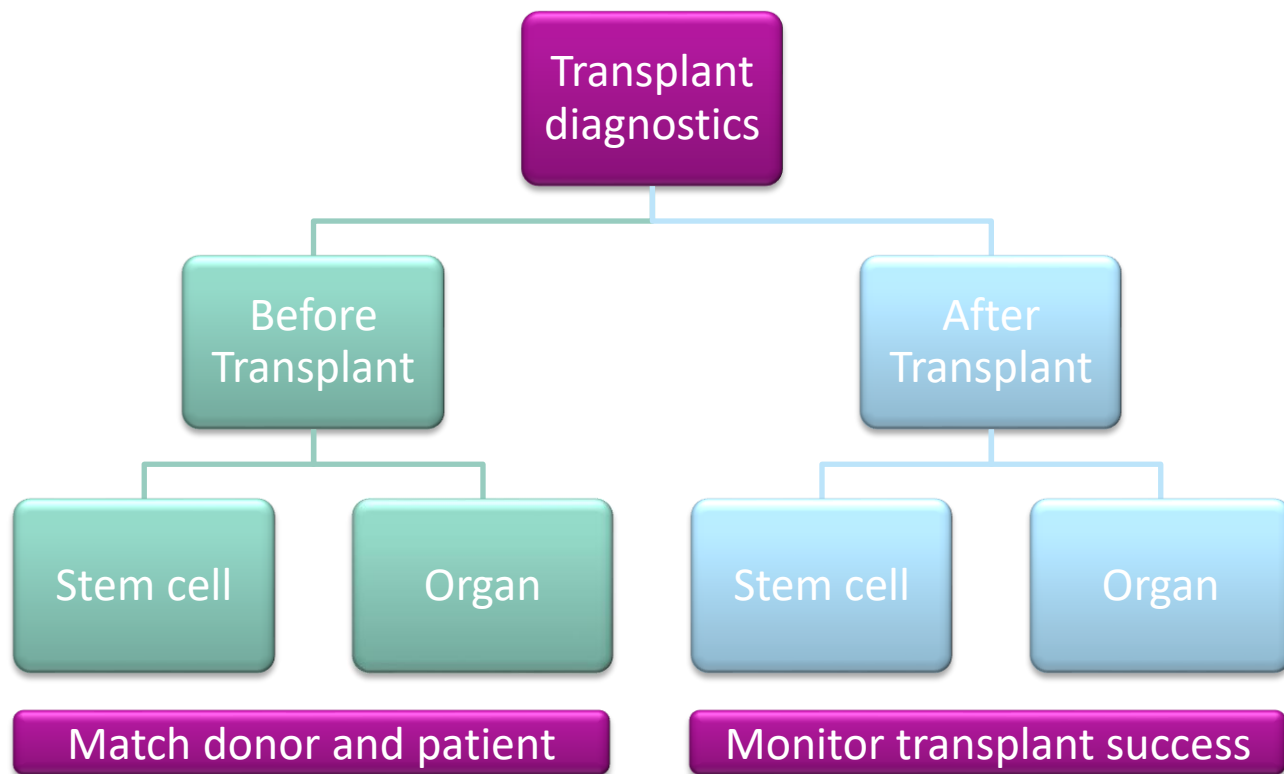


Prepare genes for sequencing

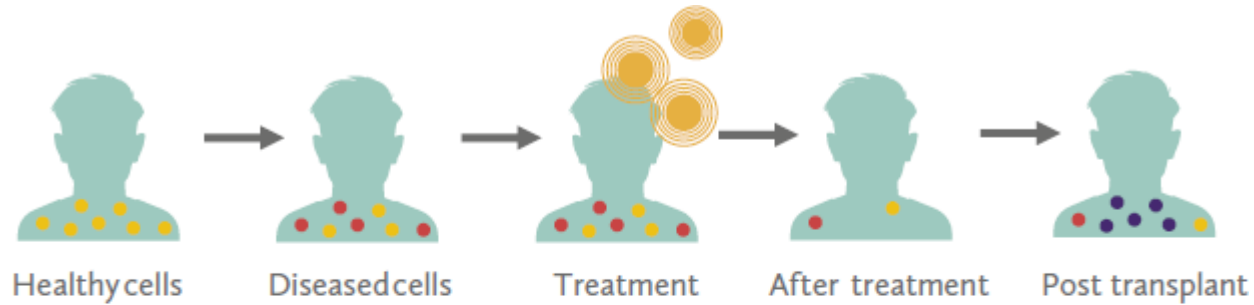
Analysis



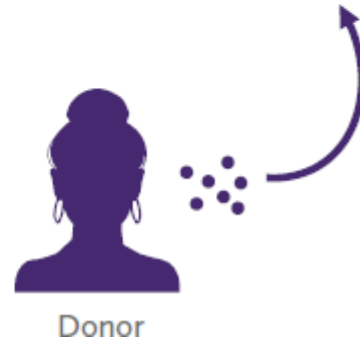
Analyze and report results



Monitor success of stem cell transplant



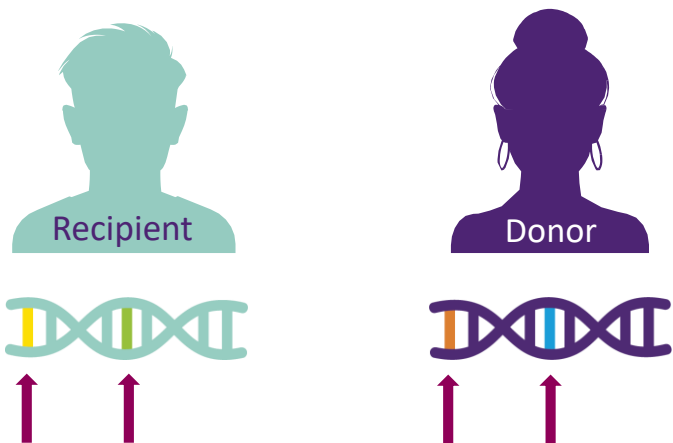
- Healthy cell
- Diseased cell
- Donor cell



Monitoring transplant success: 2 steps

1 Genotyping

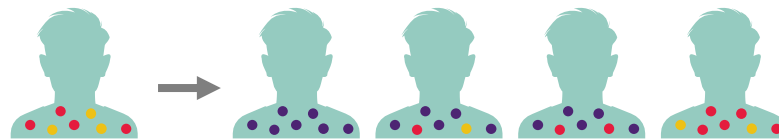
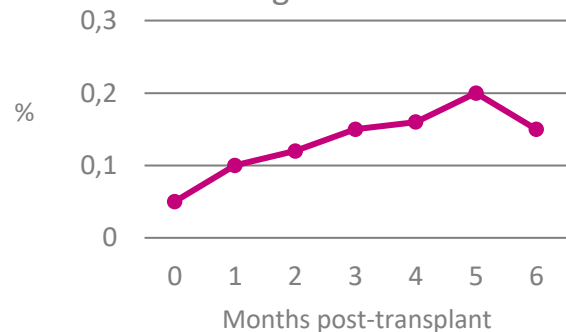
Determine informative markers



Informative markers

2 Monitoring

Using informative markers



Pre-Transplant

Post-Transplant

Products to monitor transplant

Used by hospital laboratories

Genotyping



Determine informative markers

Monitoring



Monitor informative markers

Analysis



Analyze and report results

GENDX

experts in transplant diagnostics

What about you?



GENDX

Alexander Numan Building

GenDx is growing and expanding

Quarter 4 2023

Utrecht Science Park

- A Numan Building
- Floor 3, 7, 8, 9
- Well equipped lab space
- New offices
- Catering facilities



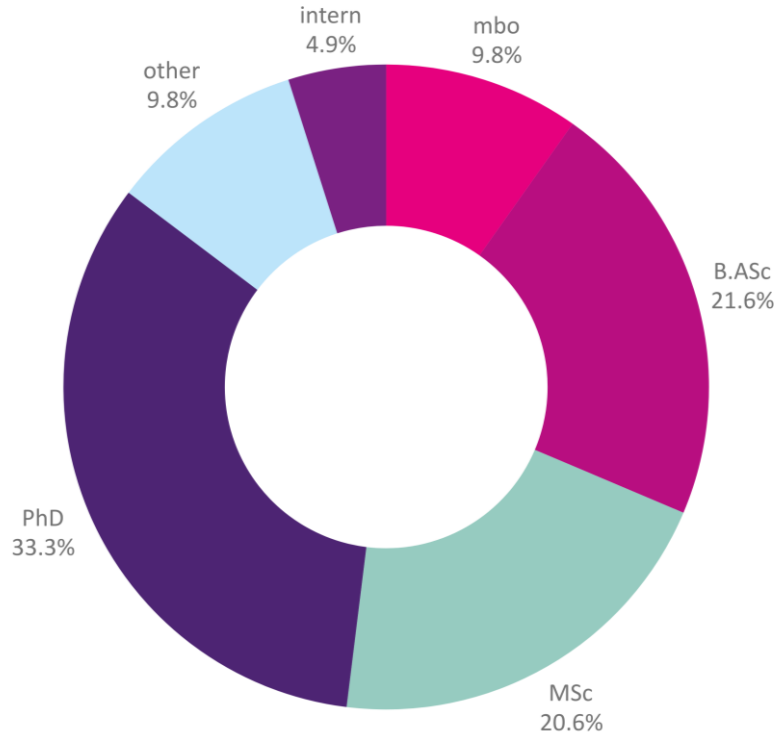


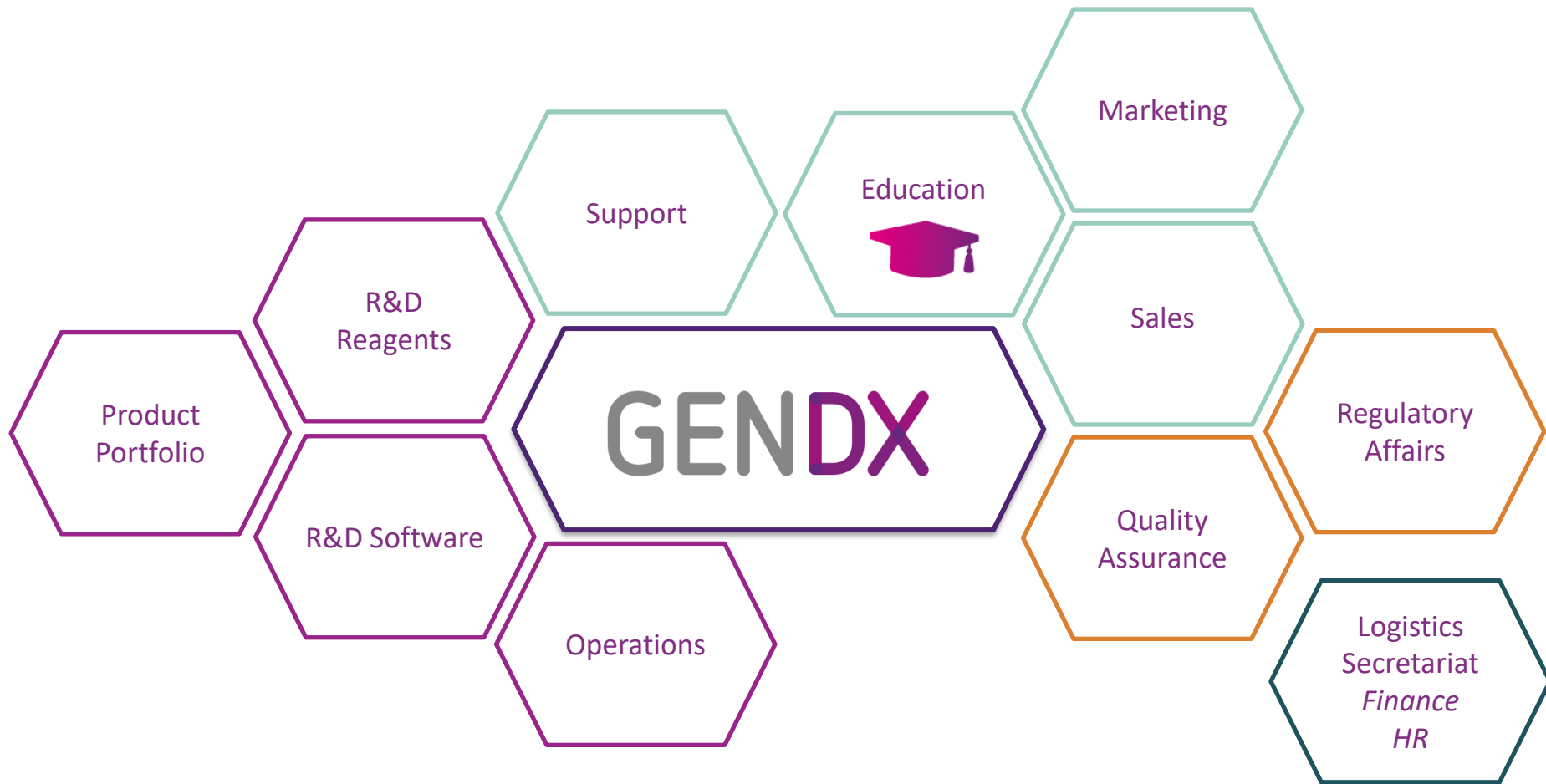
✓ ~100 employees

Demographics of employees

May 2024

- ~100 employees
 - ♂ 44%
 - ♀ 56%
- Average age: 35 years





My Career Path

- BSc Bio-Pharmaceutical Sciences (2012-2015)
 - Leiden University
- MSc Bio-Pharmaceutical Sciences (2015-2017)
 - Leiden University
- PhD in Molecular Biology (2017-2022)
 - RadboudUMC (Nijmegen)
- Technical Support Specialist (2022)
 - GenDx
- Sales & Application Specialist (2023)
 - GenDx



Working at GenDx: Technical Support Specialist

- PhD in molecular biology (or equivalent)
 - Knowledge and broad interest in molecular and laboratory techniques
 - especially *DNA sequencing*, and related analysis software
- Become a scientific expert
- Help customers
 - Answer questions
 - Analyze customer cases
 - Solve puzzles
- Collaborate with other teams
- Grow to new position within GenDx
- Better insight what industry has to offer

Working as a Sales & Application Specialist

- Analytical skills
- Problem solving

- Can do attitude
- Sharing

- Collaborate with colleagues and customers
- Travel to customers, conferences and events



Working at GenDx: Regulatory Affairs Officer

- **Regulatory Affairs Officer**
 - PhD in molecular biology (or equivalent)
 - Support the regulatory guidance regarding development, evaluation, and/or marketing of current and new products
 - Interpretation and implementation of regulatory requirements to newly developed products

Working at GenDx: Software Development Team

- **Software Quality Engineer & Software Test Engineer**
 - BSc/MSc in Software Engineering (or equivalent)
 - Systematic testing of software products that are used for transplantation purposes worldwide

- **DevOps & Software Engineer**
 - BSc/MSc in Software Engineering (or equivalent)
 - Setting up and maintaining DevOps practices to support development activities

Working at GenDx: Software Development Team

- (Junior) Software Developer
 - BSc/MSc in Software Engineering (or equivalent)
 - Maintenance and development of our software packages
 - Development and implementation of new software tools

More information?

- Come visit the GenDx booth (#47)



GENDX

experts in transplant diagnostics

