



## Investor Relations Presentation

March 2022



# Safe Harbor

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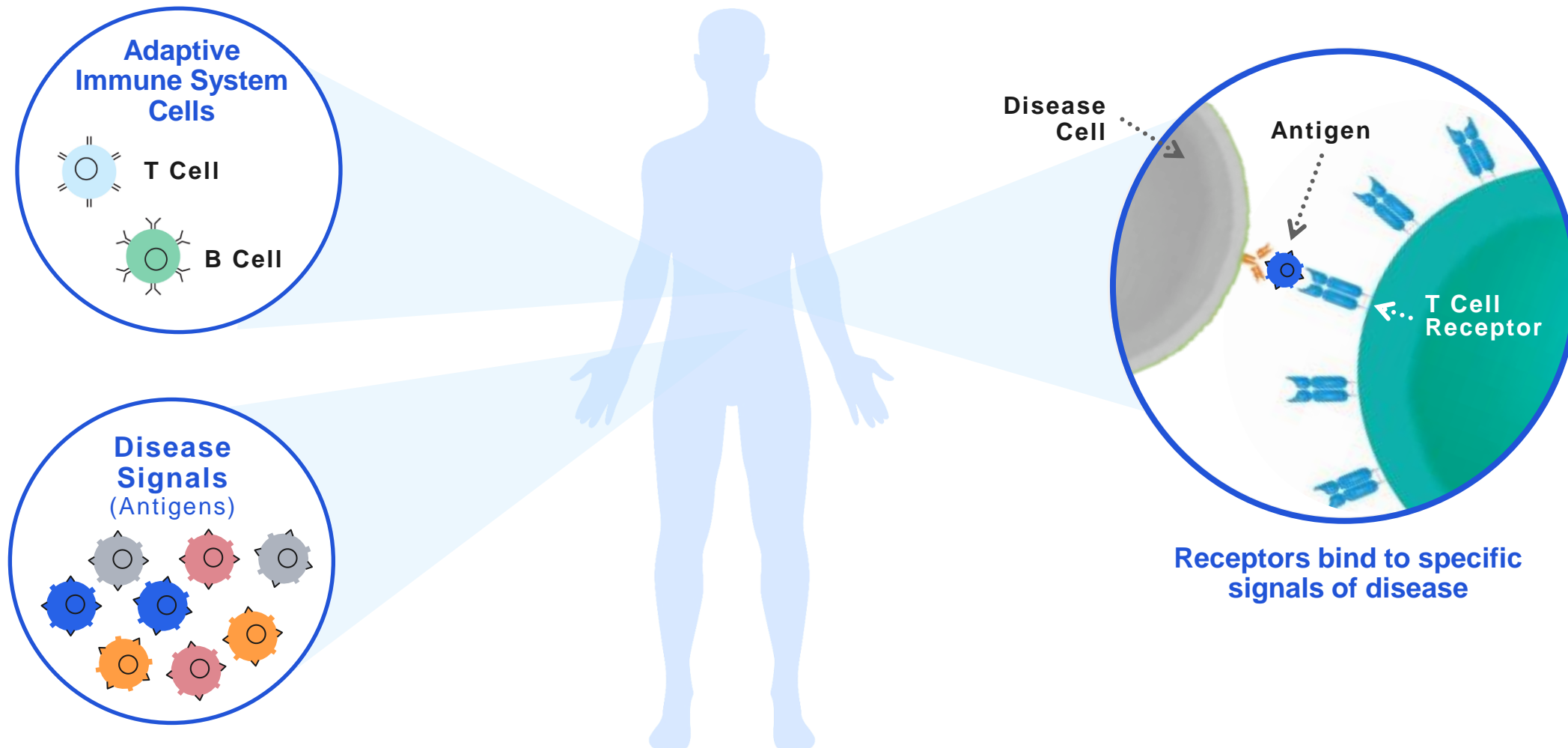
# Our Mission

Translate the genetic language of the adaptive immune system into clinical products to diagnose and treat disease

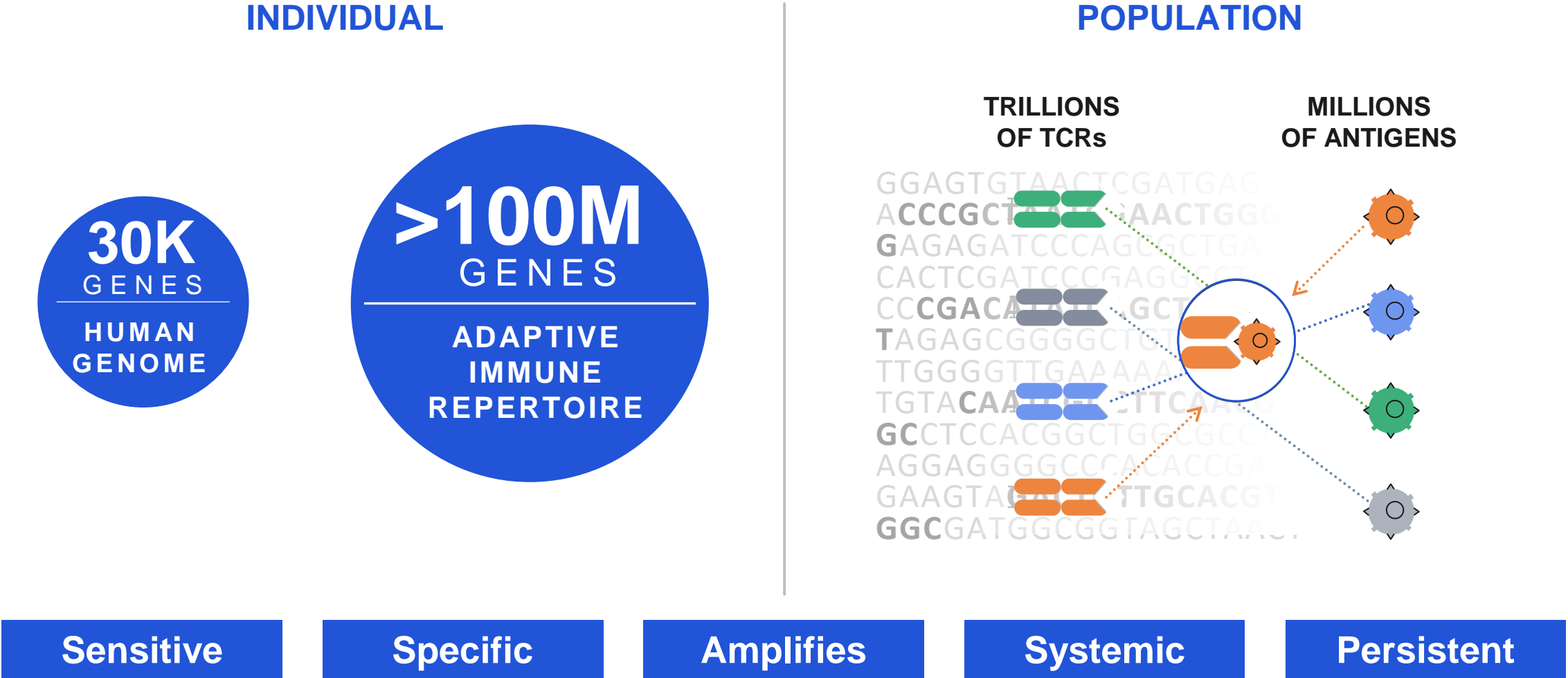
- Founded in 2009
- NASDAQ listed 2019 (ADPT)
- 750+ employees
- 700+ publications to date



# The Immune System Detects & Treats Most Diseases in the Same Way



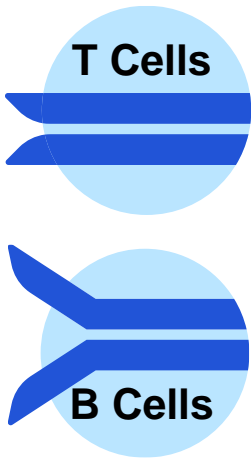
# Revealing its massively diverse genetic code may transform medicine





# Using the immune system as the source-code for immune medicine

## IMMUNE SYSTEM

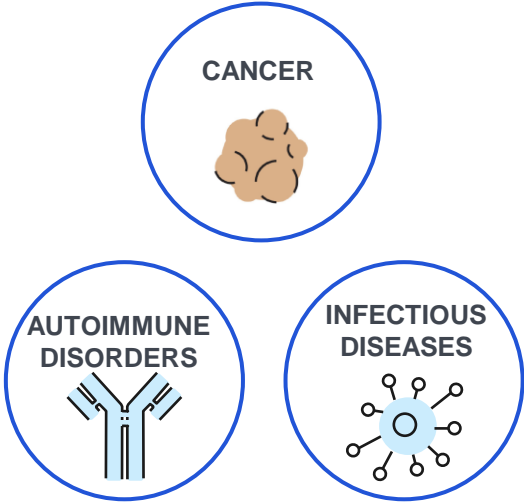


GENETICS



DATA

## BROAD APPLICATIONS



# Business areas of focus

## MRD

TAM ~\$6B<sup>1</sup>

Highly sensitive NGS-based assessment of minimal residual disease for use in clinical practice and drug trials.

### Clinical Testing



### MRD Pharma Partnerships

1. Global TAM: \$4.5B clonoSEQ clinical testing; \$1.5B Pharma partnerships (including regulatory milestones)

## Immune Medicine

TAM ~\$48B<sup>2</sup>

Clinical diagnostics, drug discovery, and research informed by our TCR-Antigen Map.

### Clinical Testing

T-Detect™

### Drug Discovery

- T-Cell therapeutics
- Antibodies
- Vaccines

### Immune Medicine Partnerships

2. Global TAM: illustrative TAM for 3 indications for T-Detect (one infectious disease, one autoimmune disease, one oncology) and drug discovery in cell therapy oncology

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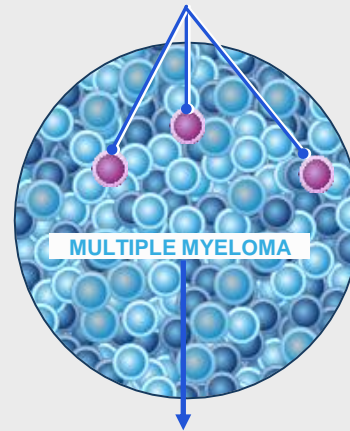
**MRD**



# Monitoring minimal residual disease (MRD) in select blood cancers

- Patients are living longer on new therapies
- Clinicians need to monitor disease burden
- Pharma needs earlier response measures
- Guidelines include MRD in multiple diseases

clonoSEQ<sup>®</sup> COUNTS  
REMAINING CANCEROUS CELLS



Patient-specific  
clonal sequence

- ❑ Universal applicability to patients with lymphoid malignancies
- ❑ Sensitivity of 1 in a million cells\*
- ❑ Minimally invasive

\* Given sufficient sample input

# Our MRD Heme business: synergistic value of pharma and clinical diagnostic



- **FDA cleared** in MM, ALL (BM\*) and CLL (BM\*, blood)
- **Broad coverage:** >240M lives
- **Widely adopted:** Clinical use in all 31 NCCN centers

clonoSEQ®  
**Clinical Testing**

- Pharma supports lifecycle expansion which drives clinical use
- Clinical usage drives inclusion as an endpoint in pharma trials

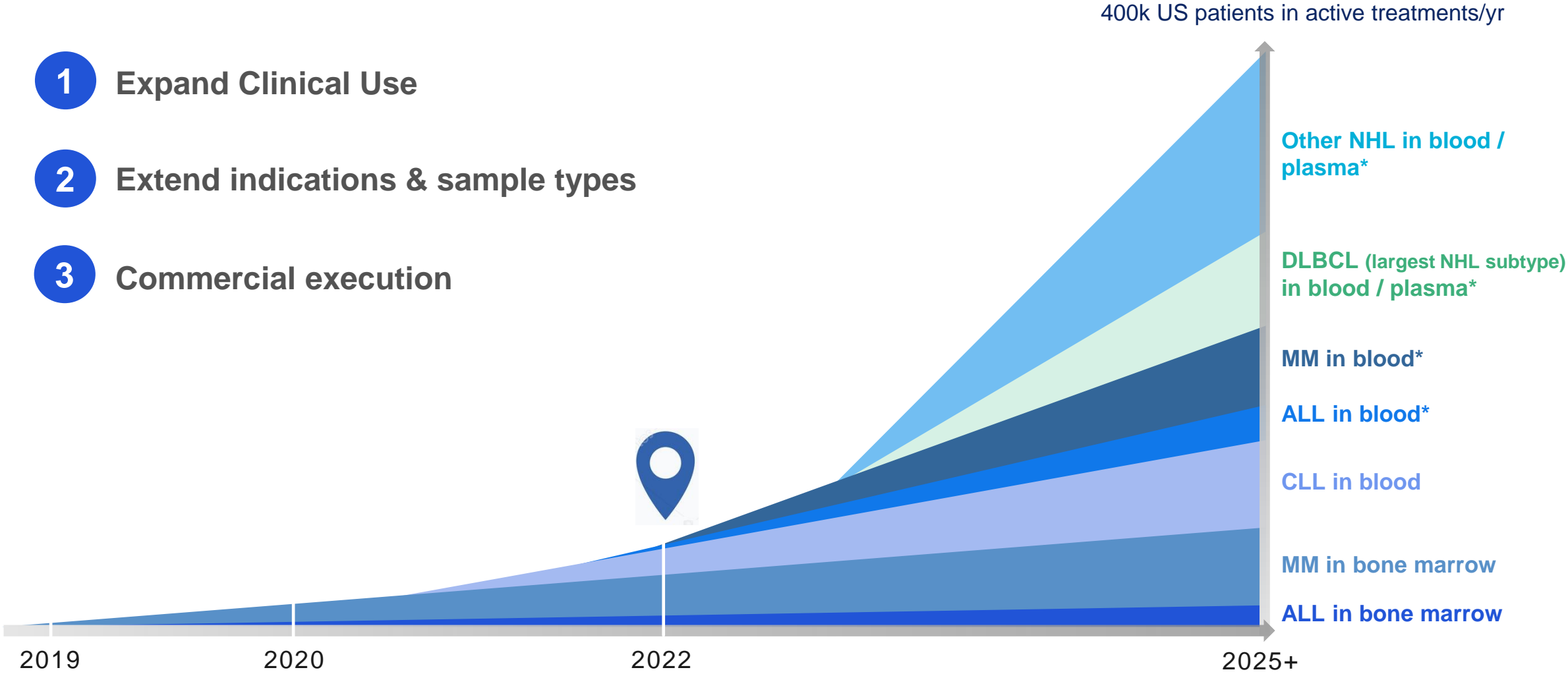
**MRD Pharma Trials**



- **Broad use** among major pharma in heme cancer trials
- Adopted by >60 biopharma companies; 168 active trials
- >\$330M in future regulatory milestones

# MRD business growth drivers

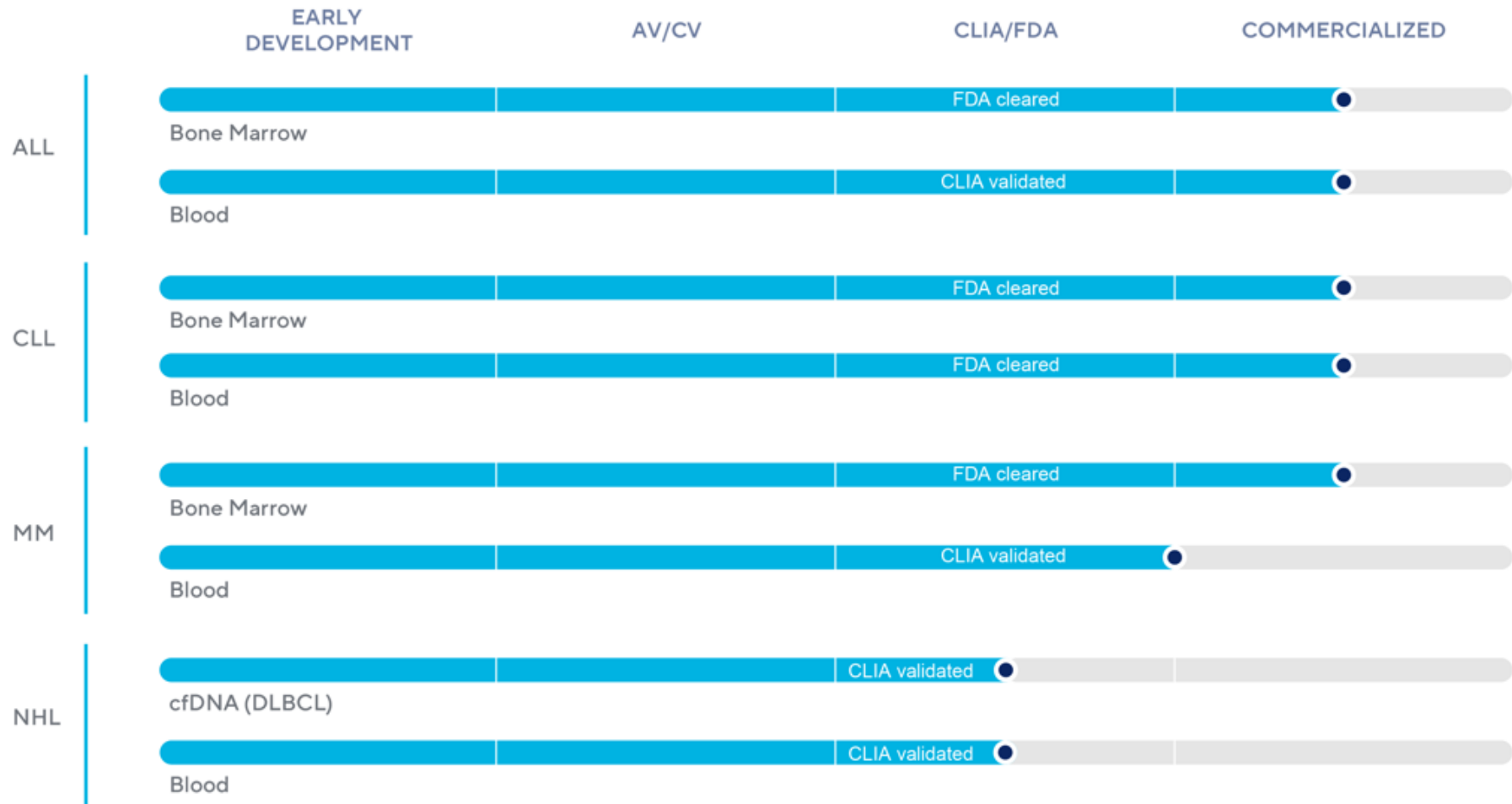
- 1 Expand Clinical Use
- 2 Extend indications & sample types
- 3 Commercial execution



# clonoSEQ Pipeline



MEASURE  
MRD

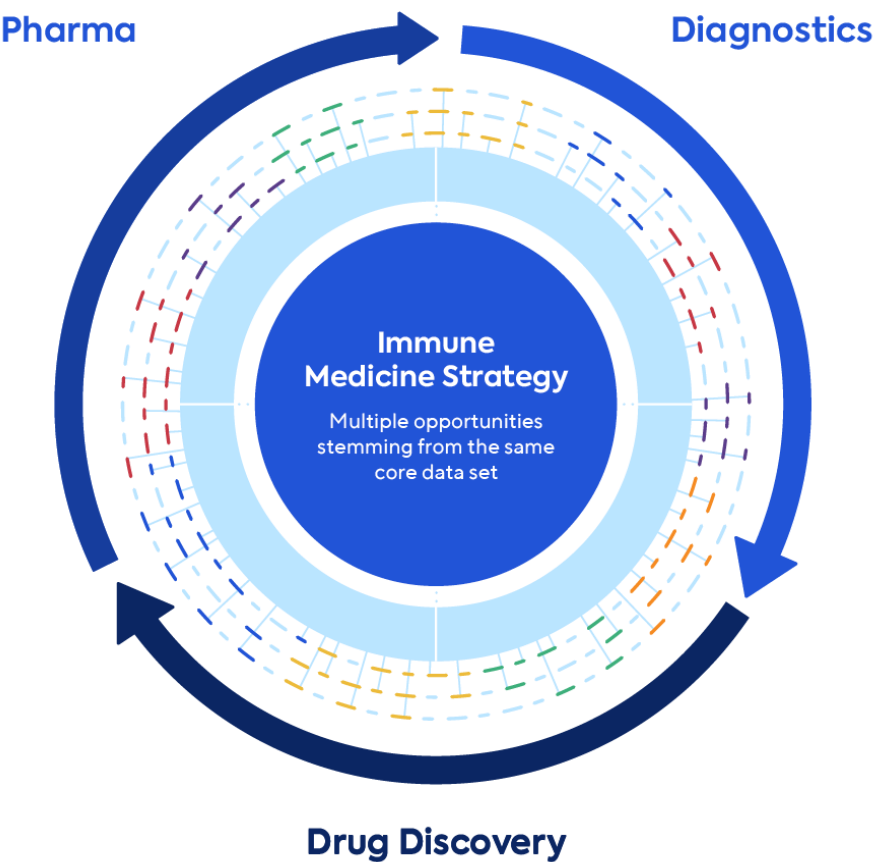




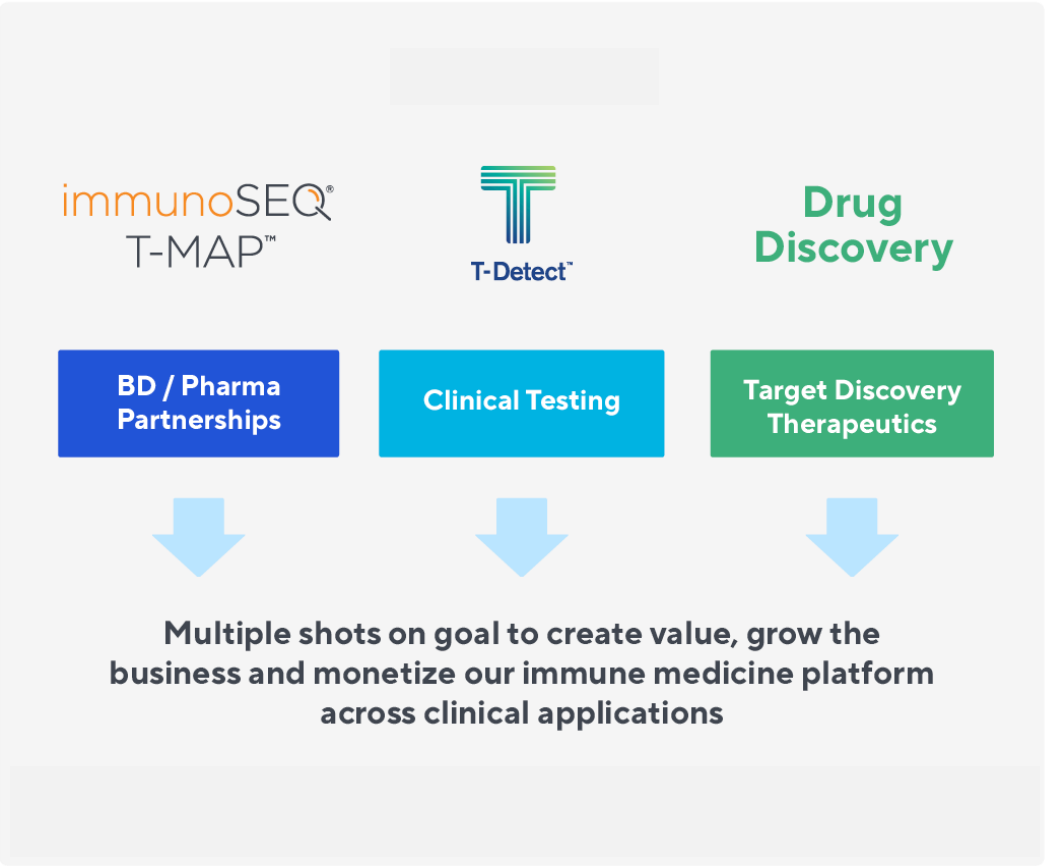
# Immune Medicine

# Unique ability to map & identify disease specific TCR sequences

## Immune Medicine Platform



## Driven by immune receptor data opportunities

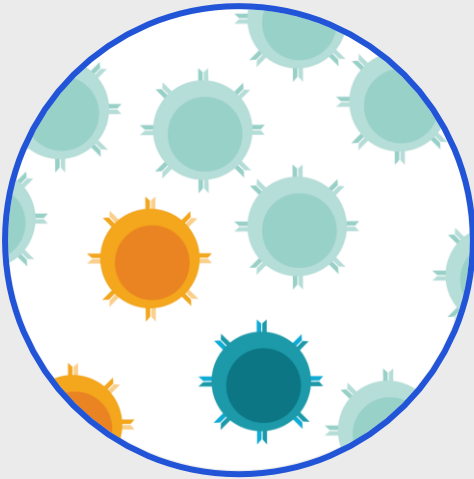




# Quantifying immunology with our immunoSEQ® technology

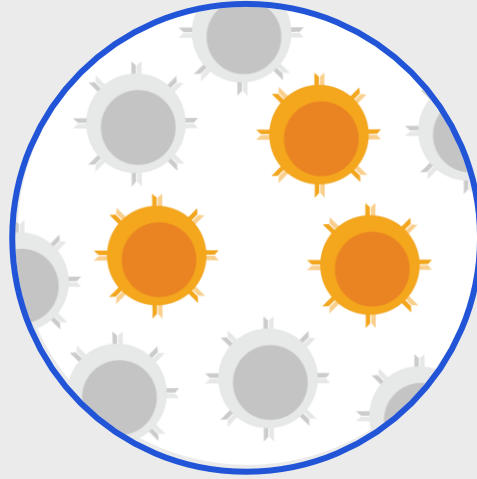
## Core Platform Component

### REPERTOIRE PROPERTIES



Identify highly expanded clones and diversity of the repertoire

### T-CELL FRACTION



View and monitor changes in T-cell fraction over time or between samples

### PUBLIC CLONES



Determine shared receptor amino acid sequences

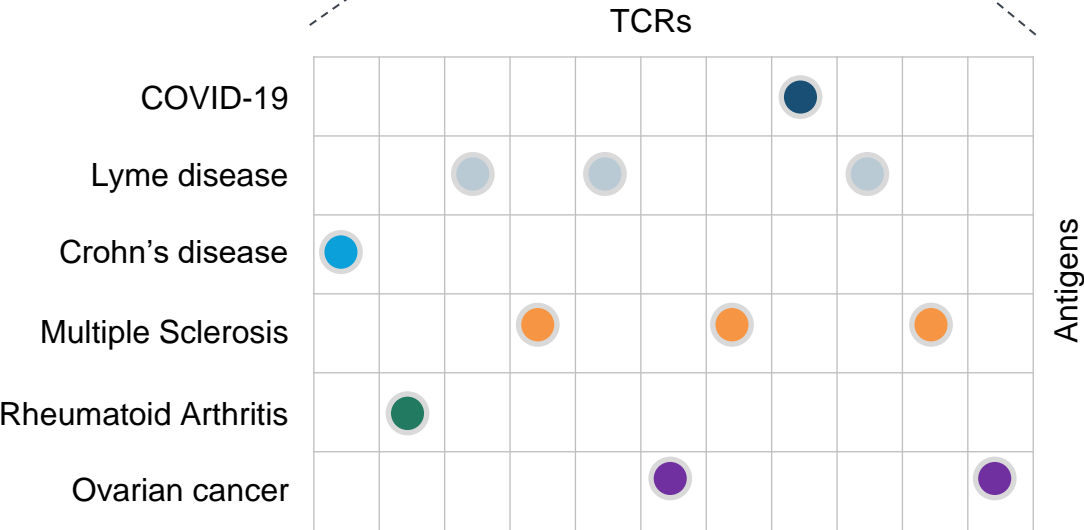
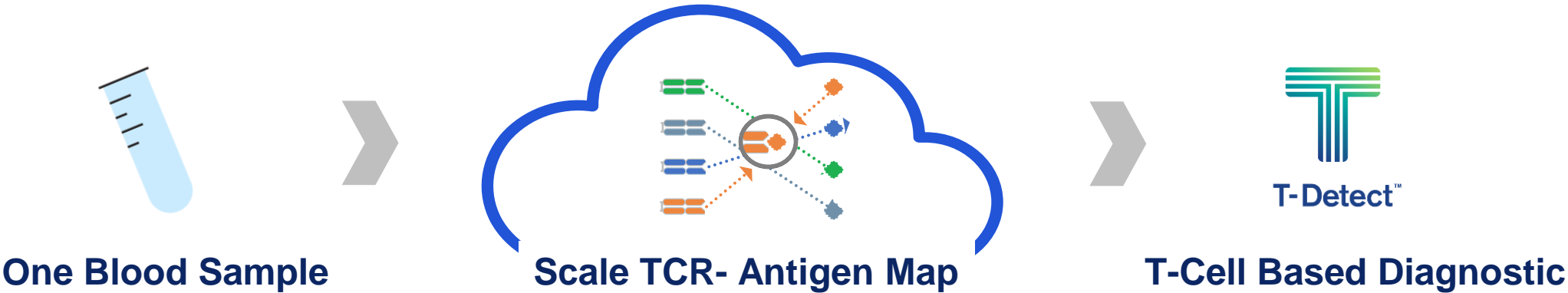
### MAPPING



Get quantitative, specific Antigen-TCR sequence-level data

For Research Use Only. Not for use in diagnostic procedures

# T-Detect: one blood test that reads T cells to diagnose many diseases



# T-Detect, advancing towards “one test, many diseases”

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## COVID



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**Only** FDA authorized test,  
available to consumers

## AUTOIMMUNE



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Clinical signals in **five** diseases  
Crohn's, UC, celiac, MS, RA

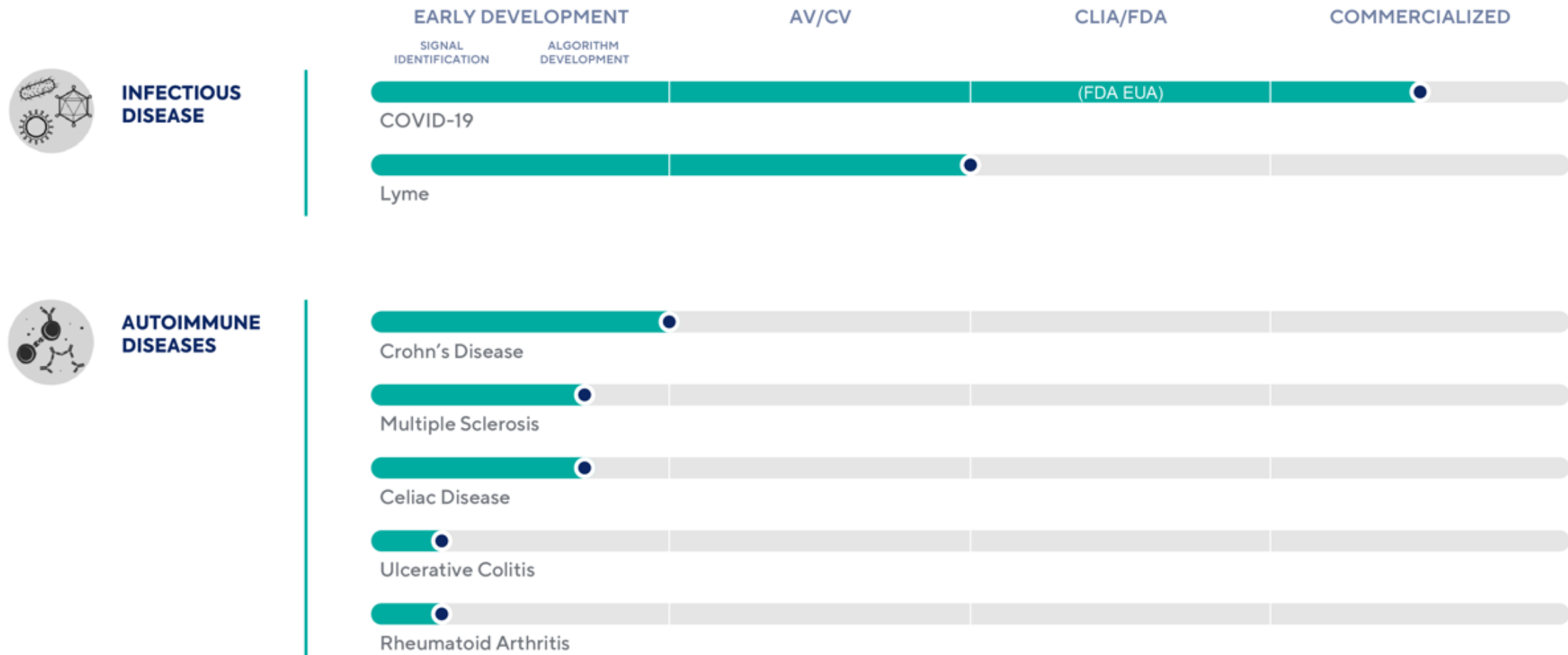
## LYME



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ImmuneSense Study  
**Completed**

# T-Detect Pipeline

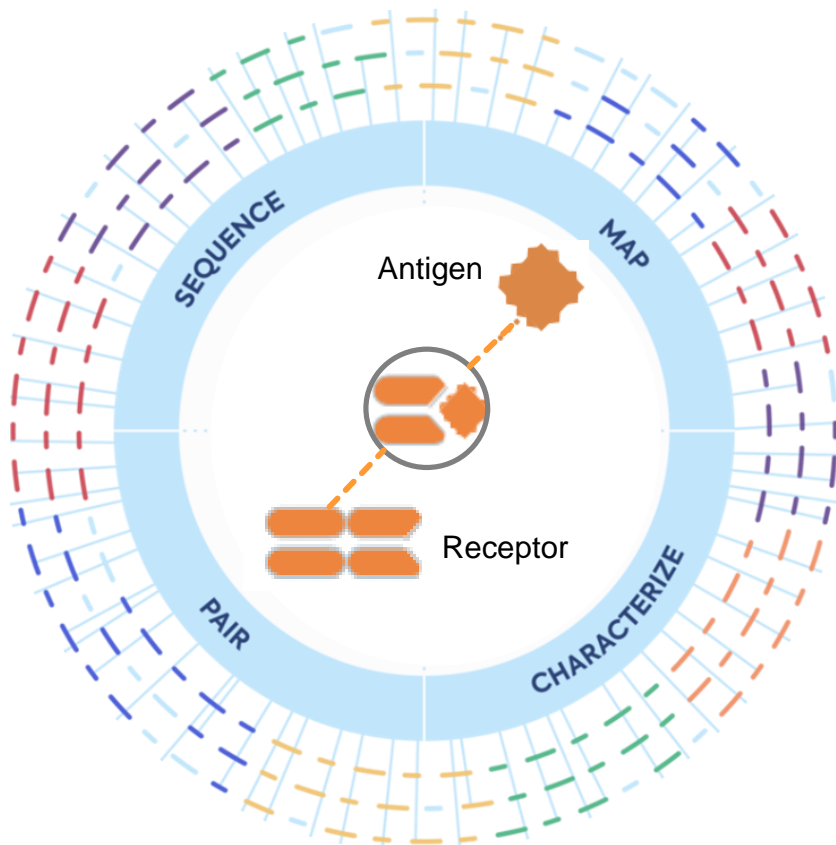


# Drug Discovery: using the immune system to develop differentiated therapeutics

IMMUNE MEDICINE PLATFORM

3 DRUG MODALITIES

THERAPEUTICS



T-cell  
Therapeutics



T-cell based  
Vaccines



Antibodies

Drug Discovery



Novel targets and  
targeting molecules

# Cell Therapy in Oncology; Partnership with Genentech

- Cell therapies showing great efficacy
  - Limited to surface markers only
- T-cell receptors are cancer specific
- Our platform generates highly potent TCRs against cancer antigens



- Characterize TCRs against cancer antigens for cellular therapy
  - Shared Products
  - Private Products
- Ability to pursue partnerships outside of oncology

**\$300M**

Upfront payment

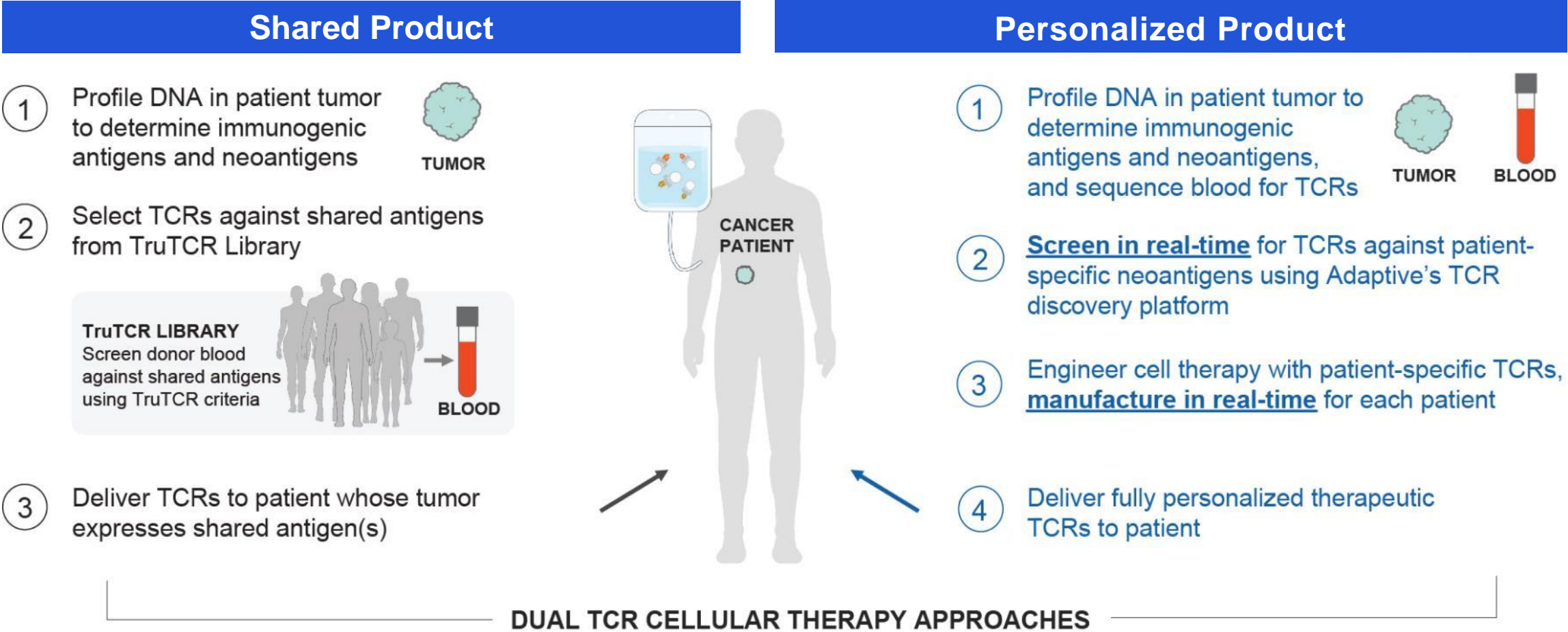
**\$1.8B**

In milestone payments

**Royalties in mid-single digit to upper-teen range**



# Developing novel neoantigen directed T-cell therapies



# Genentech selects TCR candidate against a shared cancer neoantigen



## Cell Therapy – Progress on Shared and Private Programs

### Shared

TCRs targeting  
shared cancer  
antigens



- **TCR candidate selected** to progress as a potential therapeutic product candidate
- **Efficacy and safety data** reviewed by both Adaptive and Genentech
- Deliver **2 additional TCR data packages** for consideration by YE

### Private

Build private  
product process



- **Completed initial POC** screens using samples from ~ 60 cancer patients
- Establish private product specifications and **build data package**
- Start to **define steps toward early product development**

# Drug Discovery pipeline



## Cell Therapy

Exploratory    Discovery    IND-Ready    Clinical



Partner

**Genentech**  
A Member of the Roche Group



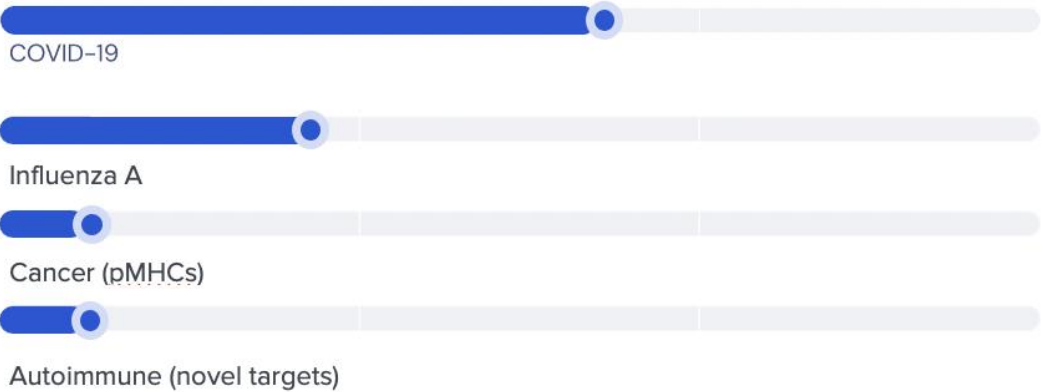
## Vaccines



**nykode**  
therapeutics

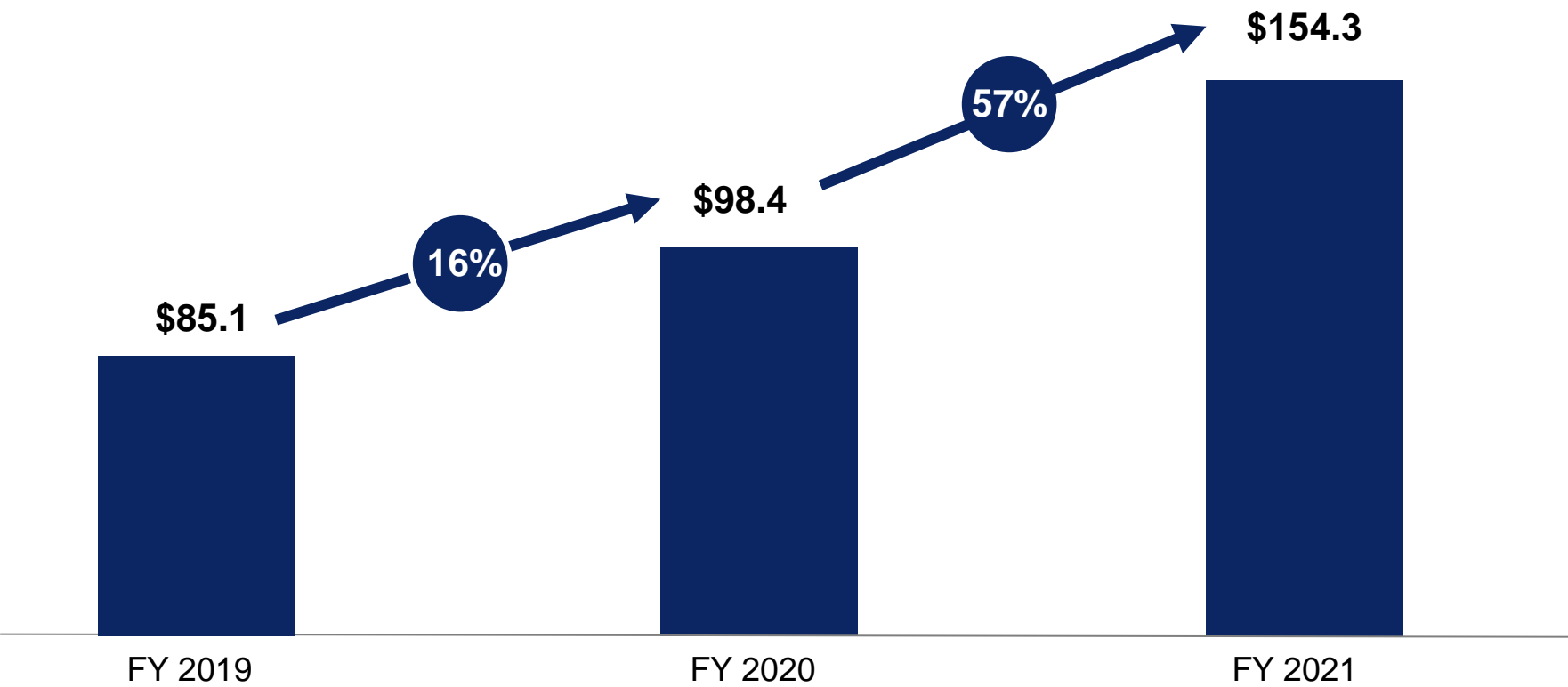


## Antibodies



# Financial highlights

Revenue (in millions)



- \$500 million in cash, cash equivalents and marketable securities as of 03/31/2022
- No debt

# Key Catalysts 2022 – Multiple levers to drive value

## Immune Medicine

- **T-Detect COVID:** Enhance product profile (correlate of protection)
- **T-Detect Lyme:** T-Detect Lyme available through CLIA in 2H
- **T-Detect AI:** Increase sensitivity/specificity in IBD, MS for market readiness
- **Genentech collaboration:**
  - ✓ Selected TCR candidate to progress as a potential therapeutic product candidate
  - Deliver 2 additional TCR data packages for consideration
  - Establish private product specifications
- **Nykode collaboration:** Phase 1/2 clinical trial data

## MRD

- Seek Medicare **coverage of DLBCL**
- Read-out data for use in **blood in MM/DLBCL**
- Expand adoption of MRD status as a co-/primary **clinical endpoint**

